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Issue 16

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

## IMS UK becomes Abraservice UK

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# Australia and Asia Pacific

## The construction materials industry in Australia and the Asia Pacific region has been in a growth phase post the global financial crisis.

In recognition of this growth and the importance of the construction materials industry in Australia, the Directors of HUB have embarked on an exciting project to provide the Asia Pacific industries with global news and information on the Bulk Handling, Recycling and Quarrying Industries.

Large quantities of construction materials are consumed each year in Australia, for domestic and commercial buildings, as well as building and maintenance of the infrastructural roads and rail networks and port facilities.

In talking about construction materials we usually refer to crushed rock, natural sand, and brick and cement clay. This materials industry is a huge \$6 billion plus industry in Australia and growing.

In recognition of the importance of construction materials industry in Australia and the Asia Pacific region we will be covering developments and news from quarry operators, regulators, educators and governments.

The CEO of construction materials company Boral commented that the construction sector has been struggling of late, yet in light of the recent flood disaster, it is expected in the coming months that sales of construction materials in Queensland, such as concrete, plasterboard and general quarry products will undoubtedly rise substantially with the re-building of roads, bridges and homes.

However the damage and devastation caused by the floods will take a long time to clean up and according to drainage experts it could be months before waterlogged pits are drained of excess water due to the shortage of extra pumping equipment.

Moving forward in the quarrying industry quarry owners, operators and suppliers have received the desired response that a new government focused industry organisation has been launched to represent 'independent' quarry owners and operators. *"The Independent Quarry Products Association (IQPA) has been formed to represent the independent quarry owner and operator to government, regulators and stakeholders"* said interim Executive Chairman and CEO Greg Bondar.

The demand for workers in the mining, construction and engineering profession are on the rise whilst private sector engineering construction remains strong in September.

According to the Australian Bureau of Statistics report released in early January the average time to find work was around eight weeks. Around 45.5% of employers in the construction and engineering sector plan to increase their workforce in the next three months.

The report stated that the trend estimate for the value of total engineering construction work done rose 1.2% in the September 2010 quarter whilst the seasonally adjusted estimate for the value of total engineering construction work done fell 0.8% in the September quarter, to \$19,760.2m.

As Australia rebuilds, additional demand for skills and workers will be created in the Queensland district. Preliminary estimates suggest that the Government will need to invest \$5.6 billion in rebuilding flood-affected regions, with the vast majority going on rebuilding essential infrastructure.

Only time will tell the impact this will all have on the quarrying and construction industries in Australia and the Asia Pacific.

**Greg Bondar**

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## Winter 2011

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Suppliers of wear parts and complete solutions in abrasion resistant

# ABRASERVICE UK

## IMS UK Becomes Abraservice UK

Since 1st January 2011, IMS UK has been trading under the name of Abraservice UK. This name change brings the company in line with the European brand identity within the new Group, resulting from the merger of IMS Group and Jacquet Metals.

Operating from the company's current location in Saltley, Birmingham, the legal entity of the company remains as IMS UK Limited.

Adrian Hance, Divisional Director commented, "From an operational stand point we are the same company, with the same staff, experience, market and product knowledge and technical expertise and we will be making every effort to ensure the transition from IMS UK to Abraservice UK is seamless for all customers and suppliers."

The new Group will be organised around four strong brands corresponding to the four markets in which the Group operates and already has strong strategic positions; IMS for engineering steels, Stappert for stainless bars, Jacquet for stainless quarto plates and Abraservice for wear resistant and high yield steels and processed components.

Abraservice UK will be subsidiary of Abraservice Holding, itself a 100% subsidiary of IMS SA, and the the new Group is expected to generate a turnover of €1 billion in 2010. It has a work force of almost 2,500 with a network of 60 subsidiaries and 90 distribution centres across 22 countries, spanning Europe, Turkey, China and the USA. The Group is the largest independent distributor of special steel grades across Europe with manufacturing facilities to match in Germany, Italy, France and the UK.

As a leader in the distribution and processing of wear resistant and high yield steel plate and manufacturer of processed wear parts, Abraservice UK will continue offering customers a comprehensive material

selection coupled with technical support to provide cost effective solutions to complex applications.

In addition, Abraservice UK will continue to offer customers the opportunity to purchase materials, processed wear parts or services using the established T-card system, a business-to-business trading card that streamlines procurement and payment processes, developed by one of the UKs leading aggregate suppliers. This supports faster ordering, service and delivery times as well as helping to reduce paperwork, pricing queries and in many cases the need to raise purchase orders.

Through the advantages of the T-card system, Abraservice UK remains a major supplier to market leaders in sectors including mining and quarrying, recycling and cement production by providing a leading range of specialist abrasion resistant and high yield specialist steels from an extensive stock profile, available at all times in thicknesses from 3mm - 150mm. All materials are sourced from accredited European steel mills such as Dillinger Hütte for Dillidur, Dillimax and Dillidur Impact products, Duferco for Quard steels, Ruukki for Raex products as well as Creusabro from Industeel and high yield material from Tata.

Abraservice UK is a major distributor of specialist materials and processed parts into a wide range of industry sectors including quarrying and mining, mechanical engineering, recycling of glass, paper, wood, rubber and metal, cement and concrete, offshore, energy, construction and environmental industries.

For any additional information about Abraservice UK please contact Nick Taylor, UK Sales Manager, at [n.taylor@abraservice.com](mailto:n.taylor@abraservice.com).

### Industries We Serve

- ▲ Mining
- ▲ Quarrying
- ▲ Recycling
- ▲ Offshore
- ▲ Agricultural equipment
- ▲ Cement production
- ▲ Construction
- ▲ Mechanical engineering
- ▲ Defence
- ▲ Foundry
- ▲ Steel production
- ▲ Waste collection
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## and high yield strength steels

### Creusabro® Wear Resistant Steels

The range of Creusabro wear resistant steels, available exclusively from Abraservice UK, combines extreme resistance to abrasion together with a high level of toughness and has been developed to optimise wear resistance against abrasion, impact, heat and corrosion.

This has been made possible due to the specific chemistry and heat treatment processes used during the manufacturing process ensuring not only hardness but the design of a wear resistant steel through the combination of homogeneous hardness, toughness and a fine microstructure coupled with heat and corrosion resistance.

In addition to this, the Creusabro range offers further advantages in that the materials are workable, and can be profiled, welded, drilled, machined and formed to produce bespoke wear parts that offer exceptional qualities for applications such as screens, liners, feed drums, toe plates and wear edges supplied into industries including mining, quarrying, steel production, offshore, power generation plants and recycling of glass, metal, wood, rubber and general waste.

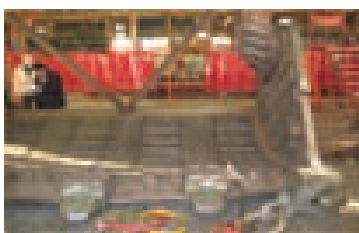
#### CREUSABRO® 4800



Creusabro® 4800 screening drums

The ability of Creusabro 4800 to work harden offers an increase of up to 50% service life compared to conventional 400HBW grades. It also works at higher temperatures than standard abrasion steels, continuously at 450°C. Creusabro 4800 is designed to provide the optimum combination of wear resistance, controlled hardness and ease of processing, achieved by a combination of an enriched chemical analysis (Cr, Mo, Ti) at a controlled quenching rate.

#### CREUSABRO® 8000



Creusabro® 8000 shovel bucket wear parts

Likewise, the ability of Creusabro 8000 to work harden offers an increase of up to 46%+ service life compared to conventional 500HBW grades. These outstanding results were obtained from a comparative abrasion test program in extreme mining conditions in Bulgaria, whereby mining shovel buckets on earth moving equipment produced from high yield strength steel were equipped with 30mm thickness Creusabro 8000 wear plates welded into position, tested over a 12 month period. These were tested against buckets using the market leading wear steel grades.

**Creusabro® steels - proven to outperform the leading brand of wear steels by 46%+**

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- ▲ Drilling and countersinking
- ▲ Welded fabrications
- ▲ Shot blasting

- ▲ Painting
- ▲ Rolling
- ▲ Forming
- ▲ Machining
- ▲ Grinding

## CREUSABRO®

Outperforming the leading brand of wear steels by 46%+



The Creusabro® range of products offers wear resistant steels that combine resistance to abrasion together with a high level of toughness.

The materials are through hardened and can be machined, welded, drilled and formed to produce bespoke processed wear parts, \*proven to outperform the leading brand of wear steels by 46%+.

Abraservice UK are the exclusive supplier of Creusabro steels in the UK market, please contact us for further details.

## ABRASERVICE UK

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\*Based on a comparative abrasion test program run over 12 months in extreme mining conditions. Contact Abraservice UK for more details.

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Leaders in the supply of wear parts in abrasion resistant & high strength steel plate

## Mentor presents Outstanding Employer of the Year Award

Mentor Training was delighted to present the Outstanding Employer of the Year title to Johnson Tiles at the Proskills awards for 2010.

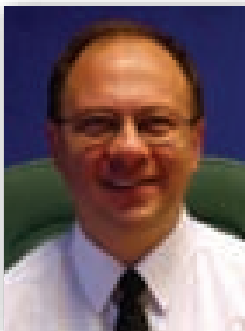
The ceremony and gala dinner, held on Thursday 4th November at Alton Towers as part of Apprenticeship Week, recognised the achievements of those involved in apprenticeships and work based learning. Trophies and prizes were awarded to the winners and guests were entertained by comedian Hugh Dennis.

Apprenticeship Week championed the scheme and its accomplishments, as well as promoting it to employers. The awards themselves formed part of this, recognising individuals, employers and training providers across the process and manufacturing sector in seven different categories.

As the UK's leading provider of nationwide operator training courses for all types of materials handling, workplace transport and mobile plant equipment, Mentor understand the value of training and were very keen to acknowledge employers encouraging this amongst their team.



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## Guttridge appoint new MD

**East Midlands based bulk handling conveyor and elevator specialists, Guttridge are delighted to announce the appointment of Noz Talukdar as Managing Director.** Peter Guttridge, Chairman, explained

that, "Noz brings his own inimitable style, motivational and people management skills as well as an abundance of enthusiasm and good humour. His strong background of manufacturing and senior management in both large blue chip and SME business sectors, together with a superb track record, will help Guttridge to sustain and build on the rapid growth we have experienced in recent years."

Guttridge have weathered the recession well and report 2010 volumes substantially up on 2009, helped by increased activity in the Grain Storage, Animal Feeds, Foods, Biomass and export markets generating strong demand for Guttridge conveyors, dischargers, elevators and bulk bag systems.



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## Lafarge goes green for flood solution



The newly installed wind pump at Finningley.

**CONSTRUCTION materials giant Lafarge has gone for the green option to help solve flooding problems on restored quarry land.**

The company has installed a Poldaw Wind pump at Finningley, a former sand and gravel excavation site in Nottinghamshire now returned to agricultural land. The pump harnesses the power of the wind to empty a lake prone to flooding and expansion during excessively wet periods. It means valuable arable land remains available for use by the landowning farmer.

Dave McCormack, site manager for Finningley and Rampton explained: "When we had the major floods back in 2008 we realised the excavated lake was not draining as we expected. "It kept getting bigger and bigger without draining away which meant it was taking up farmland and backing up our drainage pipes." "We needed a solution which would be effective but also practicable, low maintenance and low cost in the long term as eventually we will be handing responsibility for the land back to the farmer."

Traditional pumping systems are energy hungry, accounting for nearly 20 per cent of global and 32 per cent of UK electrical energy demand. Concerned about excessive energy usage and the consequent carbon emissions Lafarge restoration manager, David Park investigated a more environmentally friendly option.

He said: "The wind pump seemed the obvious choice. Its advantages were that as well as emitting no greenhouse gases it was extremely low maintenance and the running costs were minimal. "Research showed the area had very few days without wind so it was clear the wind pump would be in action almost continuously."

Now installed, following a lengthy planning process, the 11m high unit works on a float system, pumping water from the lake into new drainage dykes when the level is excessive and keeping water circulating when levels are acceptable.

As an added bonus work on the dykes has involved creating ledges to encourage more water vole activity. David Park said: "Overall it is a great sustainable solution which the farmer is really happy with and which does the job without impacting on the environment."



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## JCB wins order to supply British Army with 236 machines

**JCB has been awarded one of the largest British Army machine orders in its 65-year history. The order for 236 machines was won in the face of fierce global competition and will be delivered by the end of January 2011.**

ALC, a joint venture between Amey plc and Babcock International Group plc, which is the service provider to the Ministry of Defence for plant and mechanical handling equipment for the British Army, awarded the contract for 138 JCB 4CX backhoe loaders and 98 JCB 436eHT wheel loading shovels. The backhoe loaders are made at JCB's World HQ, Rochester, and the wheeled loading shovels at JCB Earthmovers, Cheadle.

It follows an ALC order in 2007 for 420 JCB Load all telescopic handlers which are currently in service with British troops all over the world, including Afghanistan. JCB's largest ever military order was for \$230 million from the United States military in 2005 for JCB's High Mobility Engineer Excavator (HME). That order was for up to 800 machines.

JCB was selected for the latest military contract after extensive user trials, during which the ease of use and compatibility with other machines already in the Army's fleet were considered a key deciding factor.

The machines will be predominantly commercial with minor enhancements such as NATO green livery, personal weapons stowage inside the cab, convoy lighting and increased wading ability.

JCB CEO Alan Blake said: "JCB has now become the primary supplier of plant and mechanical handling equipment to the British Army. As a British company it is fantastic that we have been awarded the opportunity to support our armed forces in this way and help ensure they are successful on operations, training and in their many other tasks around the world."

Michael Leeming, Director JCB Government & Defence, added: "This order signifies the largest replacement order from ALC for many years and now gives JCB a significant percentage of the plant and logistics handling equipment in use with the British Army."



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## Bell used machine sales hit record high

**Bell UK has returned record sales figures for used equipment in 2010 as well as achieving better residual values on average than ever before.**

The Bell ADT used equipment sales between January and October this year was almost three times the company's budgeted figure for the whole of 2010. It also represents more than a 50 per cent improvement on Bell's previous record year in 2007.



Bob Aldridge, Bell's used equipment sales manager, said: "Despite the general economic climate, 2010 has proved to be our best year ever for used equipment sales, and we've seen record RVs."

"Our used equipment strategy is definitely working for us and the customers who own our machines. We have dedicated strong focus on driving increased resale and residual values for Bell ADTs in the market, and the used equipment sales success being achieved is a direct result of the focus and effort placed on adding value for our customers."

"We're perhaps still seeing the market's lack of confidence, where many operators have shied away from purchasing new machines. I think the situation may carry through to next year in terms of good used equipment sales, but eventually it will balance out again."

Aldridge said the record used machine sales had shown that the message was getting through to the industry loud and clear that Bell ADTs were both very reliable and held their value very well.

"We've certainly come above people's expectations in terms of RVs," he said. "And while this year may be exceptional with regard to used sales, we expect Bell will see increased market share."



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## Finedoor appoint new Project Manager

Chris Ashley has recently joined specialist quarry and recycling plant company Finedoor as Project Manager. Based at the company's headquarters in Leeds, Chris brings a wealth of experience with him having previously worked for Hanson Aggregates for approximately 12 years.

He has a credible professional record as his career progressed from Weighbridge Clerk to Unit Manager where he managed 15 personnel within four sites, involving nine plants, and production in asphalt, sand and gravel, recycling and a bagging operation.

As a member of the IOQ, Chris has qualifications which include three NVQs at level 2, in Transport, Technical Services, Computer Hardware and Engineering. Additionally, Chris has also gained a NVQ level 5 in Health & Safety & Environmental Management in the Extractive & Minerals Processing Industry which underlines his competence to teach and manage personnel. He has over

the past few years developed critical skills working in both theoretical and practical problem solving within several production processes in the extractive industries.

He has joined Finedoor with a desire to work in a smaller team with a large variation in the working day. Working as a Project Manager in the Finedoor engineering team Chris will be responsible for all UK installations and commissioning ranging from new screens and aggregate processing, recycling, wash plants and effluent treatment plants.

One of his first major tasks for Finedoor has been to manage the first UK major Stores effluent Treatment plant installation which involved the setting up of working parameters including site systems, control systems and the mechanics of the plant.

Working with his well practiced expertise Chris will ensure installations offer maximum efficiency and increase productivity for all of Finedoor's clients.



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## Volvo Construction Equipment Division achieves a RoSPA Gold award in 2010



**Volvo Construction Equipment Division, Volvo Group UK Ltd is celebrating achieving a RoSPA (Royal Society for the Prevention of Accidents) Gold award for Occupational Health & Safety in 2010.**

The awards are graded at merit, bronze, silver and gold levels and are sponsored by NEBOSH (the National Examination Board in Occupational Safety and Health) the leading health and safety professional examining body. The award scheme is not only concerned with reducing numbers of accidents, but is also focussed on encouraging organisations to develop robust health & safety management systems.

Achievement of this award is a clear statement that Volvo Construction Equipment Division, Volvo Group UK Ltd has been judged to have not only developed rigorous health & safety management systems, but also implement these systems effectively across all of its eight customer support centres.

David Rawlins, RoSPA's awards manager commented; "Volvo Construction Equipment Division has shown a commitment to protecting the health and well-being of its employees and others. Organisations which do this deserve to have such dedication recognised and that is where the RoSPA awards come in."

*"As well as there being clear ethical reasons and legal requirements for good health and safety management, there is also a strong business case for doing so - such as the reduction in lost time, claims and additional costs," he continued. "RoSPA is delighted to publicly honour organisations which have demonstrated their work to improve performance in this sphere."*

Commenting upon the award, Volvo Construction Equipment Division's Managing Director Val Ledden said; *"We are absolutely delighted to have received a RoSPA Gold award for the first time in our trading history. This is a testament to the hard work and dedication of all of our employees who embrace the Volvo ethos when it comes to our core values of Quality, Safety and care for the Environment."*

Volvo Construction Equipment Division markets wheeled loaders, articulated haulers, hydraulic excavators, graders, Volvo utility equipment and Volvo road machinery products in the U.K. There are eight strategically placed customer support centres and a network of utility equipment dealers to ensure high quality customer support is maintained throughout the country.



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**Powerscreen, one of the world's leading providers of mobile crushing, screening and washing equipment, was presented two awards at the second World Demolition Awards in Amsterdam.**

Held on 5th November 2010, Powerscreen had been nominated for two awards: Customer Service/Support and Series Product Innovation. Powerscreen Global Product Line Director Damian Power, said that *"Powerscreen was delighted to be nominated in both categories, but to win both awards against such well regarded competition is a fantastic achievement for our team."*

In the Series Innovation category, Powerscreen competed against Caterpillar, Liebherr, LST Group, Komatsu, Volvo and Sagro and was announced winner for the Powerscreen® Aggwash product that was launched in June 2010 and previewed at the Hillhead exhibition. A key feature of the Aggwash is its ability to offer operators the flexibility to easily re-locate a complete wash plant operation, eliminating the need for machinery duplication. Additionally the Aggwash allows operators to work in constrained sites because of its compact size, zero exhaust emissions and low noise levels.

In the Customer Support category, Powerscreen faced Liebherr, and on this occasion the judges awarded first place to both companies. As Damian Power explains, *"Powerscreen works closely with customers to understand their equipment and aftermarket requirements. Our customer support incorporates a range of services including training, highly responsive technical engineers, parts, warranty and financial services."*

The Powerscreen entry focused on its commitment to send service engineers around the world to assist customers, citing the case of two such engineers who travelled from the UK to Suriname to install the Powerscreen screens and crushers on a month-long project. *"We are dedicated to surpassing our customers' needs and stand ready to demonstrate Powerscreen's commitment to world-class customer satisfaction, wherever it may take us,"* Power said.



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## New recycling deal will ease pressure on landfill sites and save companies cash claim

**TWO leading companies in the recycling industry have joined forces in a deal they claim will dramatically reduce pressure on Ireland's landfill sites and save companies cash.**

Tyrone-based Envirogreen Recycling, which employs around 20 people at its Coalisland HQ, believes its new partnership with Ancove will drastically cut waste costs for commercial customers and increase the overall range and volume of items recycled in Ireland.

Conor Guy, Managing Director of Envirogreen Recycling, Ltd said: "There are still large volumes of paper, cardboard and other plastic recyclables ending up in skips and bins which are destined for landfill. Ancove is the largest supplier of balers and compactors in Ireland. This partnership with Ancove will enable us to ensure more materials are recycled, thereby easing pressure on the island's under-pressure landfill sites.

"Clients will now be able get a quality baler installed from Ancove backed up by ongoing customer and product support. Envirogreen Recycling will then reward the customer for their recycling efforts by buying their baled cardboard, paper and plastic. It is a win, win for client companies as waste costs are reduced, the environment is being assisted and the customer gets paid to recycle."

Ancove who are headquartered in Dublin and are a subsidiary of Orwak Environmental Services are also excited with the partnership.

Paul Nolan, General Manager of Ancove commented: "Envirogreen Recycling is a highly reliable and efficient company that pay top rates for baled recyclables. Together Ancove and Envirogreen Recycling will be able to make a real difference in the recycling industry by increasing recycling rates and reducing customers' waste costs".

A recent recipient of this waste cost reduction initiative was Sealed2Sell based in Greenogue, Co. Dublin. They have reduced their waste costs by over 50% and continue to reap the rewards from the sale of the baled cardboard and plastic. Sealed2Sell's, Warehouse manager Ralph Kennedy believes that more companies should follow his lead.

"We are making significant cost savings by baling and selling our recyclables. Because Envirogreen Recycling is a recycling company and not a waste company they actively encourage best recycling practices. My previous waste management company did not offer me the bale and sell arrangement because they were getting away with charging us for the collection of the bins."

Commenting on this, Conor Guy said: "Envirogreen Recycling differs from the rest because our customers know where they stand with us. We give them a price for their recyclables and pay them that price. On the other hand Waste companies that offer both waste and recycling services are making it increasingly difficult for customers to know how much they are actually getting paid from the sale of their recyclables and how much they are getting charged for their waste disposal, because of a complex rebate scheme".

He continued: "When we approach a company and ask if they have ever been paid through this rebate scheme, the majority of them say they haven't or finding it difficult to find see the rebates being deducted from their waste costs."



## New conveyor bridge will aid release of valuable sand reserves for the South East

**A new 21.6metre bridge, part of a £1.2million project has been lifted into place over the A30 at Bramshill Quarry, Eversley, Hampshire operated by CEMEX UK, the building materials supplier.**

In a rare move by a local authority, Hampshire County Council gave permission for a bridge rather than a tunnel or a roundabout to be constructed. The new access will ensure availability to valuable reserves of 1.2 million tonnes of high quality sand and gravel, vital for use in local construction projects in the South East.

The quarry site covers over 250 hectares and is intersected by the A30. As mineral extraction to the north of the A30 has been completed and re-forestation of the area taken place, we have had to move extraction to the other side of the highway. But we still require easy access to our processing plant in the north of the site which grades and washes the sand. The bridge with conveyor is the most cost effective, sustainable and efficient solution, comments Rob Doody, Southern Regional Director.

The bridge, which weighs 12 tonnes, incorporates a conveyor belt and a walkway required for maintenance. The conveyor will transport 200 tonnes an hour of the sand and gravel 6.6metres above the highway and forms the vital link of the excavation area of the quarry with the processing plant.

The relevant section of the A30 was closed from 8pm and the crane used to lift the bridge into place parked and rigged in the middle of the road. The work scheduled was completed shortly after midnight. Overnight closure was granted on condition that the road could be re-opened at 45 minutes notice in the event that there were problems on the nearby M3 motorway.

The bridge is being installed in conjunction with a surface crossing and traffic lights on Blackbushes Road which leads onto the A30. The crossing is currently under construction and will be completed mid November.




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# CMS Ceper expands their Coalville manufacturing base



## **CMS Ceper has announced plans to substantially expand their manufacturing and distribution facilities at their Coalville headquarters in the UK.**

A new bespoke built head office, crusher training centre, product development and manufacturing facility will be erected alongside a substantial expansion of the existing crusher parts distribution warehouse.

The estimated £3 million expansion of the CMS Ceper facilities in Coalville will be constructed on recently acquired land adjacent to their existing site, providing a combined total of 1,000 m<sup>2</sup> of office space, 5,000 m<sup>2</sup> of indoor purpose built manufacturing,

crusher assembly and distribution facilities. Additionally, these new facilities will facilitate a combined overhead craneage in excess of 120 tonnes and 18,000 m<sup>2</sup> of outdoor manganese wear part and crusher storage with a new 50 tonne capacity gantry yard crane.

Furthermore this expansion will also facilitate increased production of the UK manufactured Goodwin Barsby range of crushers, screens and feeders at the Coalville site.

Founded in 1989 CMS Ceper has successfully grown into Europe's leading aftermarket manufacturer and supplier of precision crusher spare parts, premium manganese wear parts,

servicing the Mining, Quarrying, Demolition and Recycling Industries worldwide.

In recent years the company has consolidated the manufacture of their precision machined crusher spare parts in-house. This expansion of their Coalville manufacturing capacity will ensure that the company remain not only the genuine alternative to the original equipment manufacturer for crusher spares and service, but will continue to offer cost effective solutions with improved performance gained through continual research, development and innovation.



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## **Hew-dun nit?: On board trackers save two stolen Hewden telehandlers**

An investment in tracking devices has shocked unsuspecting thieves and paid dividends for Hewden, the UK's leading specialist hire equipment company, after a two-hour 'pursuit' involving three police forces.

The team at Hewdens Stoke depot discovered the theft of a 13.5 metre telehandler early one morning in late October. They immediately alerted the company's central asset control team and discovered the machine had been fitted with a tracking device.

The asset control team called the PANIU (Plant and Agriculture National Intelligence Unit) and, by monitoring the tracking device, was able to define the telehandlers location, speed and direction of travel, which made it clear the machine was on a lorry somewhere in the South East.

Hewdens team then fed live information to police patrol cars as they tracked the lorry on the M25, where they were able to safely stop the vehicle and arrest the suspected thieves, all within 3 hours of the first report of the missing telehandler.

There was then a second piece of good news, as police discovered the vehicle had not one but two telehandlers on board. As well as the machine from Stoke, a 12m telehandler stolen from Hewdens Cheltenham depot was also on the lorry, but had not yet been fitted with a tracker.

Malcolm Oliver-White, senior asset controller at Hewden, commented:

*"This was a great success for the system, with trackers, the PANIU and the police all working together seamlessly to prevent the theft of tens of thousands of pounds' worth of equipment." "The thieves were obviously taken by surprise and not expecting telehandlers to have trackers on board, so hopefully the message will spread and deter others."*

*"There is little doubt that a few hours more and the vehicle would probably have been out of the country and the telehandlers would have been sold on and lost forever."*

*"It's not just the potential financial loss when a machine is stolen, but the way it can disrupt customer service if someone is waiting for that machine to be used on a site next day."*

*"Hewden has already invested heavily in fitting 600 of the most expensive items in our hire fleet with tracker devices and we are rolling this out across the whole company."*

*"We would also like to thank the police once again for their prompt response and support."*





# DUO wash best for Network Rail

**Following a successful tender, the industry leading, specialist washing equipment supplier DUO (Europe) Plc has been awarded the contract to supply and operate a complete wash and water treatment plant to process spent ballast for Network Rail (NR) in Cambridgeshire.**

As part of their infrastructure investment and commitments for the future to renew, maintain and enhance the rail infrastructure the NR site at Whitemoor Yard, March, Cambridgeshire will receive up to c150,000 tonnes hazardous spent track ballast per annum nationally; material that until recently was sent to landfill.

Currently dry crushing and screening non-hazardous spent track ballast on site, the NR's dedicated recycling team had the enviable task of seeking economical and environmentally friendly methods for washing and successfully removing hazardous material from the spent ballast too dirty to re-use. This process then allowing the NR team to reintroduce the washed material back into the railway infrastructure, with any surplus sold into the market place.

After some considerable market research and close scrutiny of all available washing systems, Network Rail made the decision to invest in DUO washing technology.

The full wash and water treatment plant proposed by DUO is due to be installed in the first quarter of 2011. The NR team considered that DUO could supply and operate the plant with competence and provide a processing operation that was totally flexible in dealing with any future production requirements, in terms of an increase in tonnage and the processing of different products.

Within the tendering process the DUO team specifically designed the water treatment element to guarantee the cleanliness of the product and ensure that the hazardous chemical element would be contained in the silt.

The plant which utilises the latest technology available on the market includes a Powerscreen Finesmaster 60 Compact Sand Plant, a 120r Logwasher and a state-of-the-art Plate Press.





## Construction Recycling Alliance launches in the UK

**The Construction Recycling Alliance (CRA) is a new organisation created to represent and support companies in the construction industry that are dedicated to reducing, reusing and recycling unwanted materials.**

CRA membership is now available to corporate enterprises in the construction industry as well as companies from interrelated sectors such as demolition, remediation and waste management. CRA membership offers those companies that are dedicated to reducing waste an opportunity to achieve a new environmental accreditation specifically created for construction-related activities. Membership is granted upon completion of a CRA assessment to ensure applicants are dedicated to reducing, reusing and recycling unwanted materials.

The CRA supports its members by sharing innovative recycling techniques, disseminating guidelines and regulations as well as liaising with policy makers at local, regional and national levels. Members™ profiles are featured on the CRA website and their environmental techniques and initiatives showcased in the CRA™s magazine "The Construction Recycling Journal."

The CRA has already accepted several high-profile companies as new members including multi-disciplined contractor FM Conway. A pioneer in recycling highway arising (including concrete, asphalt, sub-base, kerbs and paving) and drain gully waste, FM Conway is one of the most environmentally-conscious highway maintenance organisations in the UK with a minimum of 95% of all arising recovered as reusable aggregates. Another new member is London-based Diamond Waste, a waste management company with a strong environmental ethos which ensures a majority of the unwanted construction materials it collects from customers are reused or recycled.

Commenting on the launch of the CRA, Director David Barnes said: "I am pleased to announce the CRA™s launch and hope CRA membership will prove popular for companies across the construction sector. By joining together under the CRA framework, companies will be able to effectively communicate with regulatory bodies and also improve their environmental credentials."

For further information please contact:  
[info@constructionrecycling.co.uk](mailto:info@constructionrecycling.co.uk)



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## Weighing solution helps the NEC almost double waste recycling

**The National Exhibition Centre (NEC) has almost doubled the amount of waste that it recycles with the help of an Avery Weigh-Tronix weighing solution in its new Waste Pre-treatment Centre.**

Over the last twelve months the new facility has weighed nearly 1500 tonnes of waste and diverted 992 tonnes of waste from landfill to be recycled. This equates to a saving of £47,600 and 406 tonnes of CO<sub>2</sub>.

The new centre allows waste to be weighed, separated and treated prior to collection by local suppliers. To track and measure the amount of waste leaving the site, the NEC needed a robust and reliable weighing solution. The Avery Weigh-Tronix system consists of two H520 floor scales, E1310 indicators and custom developed software.

Before the waste pre-treatment centre was built, waste was collected from locations around the 650 acre site and transported to a compactor, before being sent to landfill. This meant that tractor drivers had to wait their turn in a queue before dropping off their load and repeating the process.

The new centre has enabled the NEC to reduce downtime and implement a more efficient process. Waste is collected from each hall and transported to the pre-treatment facility in Euro bins where it is weighed and bundled ready to be recycled. The bins are simply dropped off at the centre and loaded straight on to the H520 pit mounted platform scale.

The E1310 indicator displays the weight on a bright graphic display and interfaces with the NEC's software for accurate data analysis. The system allows the NEC to charge customers depending on the amount of waste produced.

Says Steve Cartmell, contract manager for NEC cleaning and waste: "Having this facility on site has enabled us to dramatically reduce the amount of waste we send to landfill, whilst also reducing the number of vehicles needed to transport this material and the distance they have to travel."

"The Avery Weigh-Tronix system ensures that we are meeting our environmental targets and complying with regulations, not to mention enabling us to charge our customers accurately for the amount of waste that they produce. The system is extremely durable and reliable, allowing us to accurately track, record and analyse the amount of waste produced on site and ensure that we are working as efficiently as possible. In fact the treatment centre has recently been awarded an Excellence Award for Sustainable Initiative of the Year."

The National Exhibition Centre in Birmingham runs more than 200 events every year and produces 3000 tonnes of waste. The NEC is committed to reducing its environmental impact and carbon footprint and has increased the amount of waste sent for recycling from 19 percent in 2008 to over 35 percent in 2010.



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## Service, Quality, Technology is what we stand for ..

**European Attachments Group is the new Manchester based specialist in innovative machinery and attachments for the UK and Eire. With a wide line up of specialist, Construction, Demolition and Waste Recycling attachments and genuine machine consumables.**

Headed up by Managing Director Garry Adey with more than 20 years construction know-how European Attachments is all geared up for the construction, waste handling, recycling and utilities industries providing specialist application tools, attachments and genuine machine wear parts.

"European Attachments has already signed up several exclusive UK and Eire supply agreements with some of the best performing application tools for the UK and Irish industry. We recognize that many professionals in site management and project management are keen to invest in innovative application technology. Specialist machines that can save time, cost and manpower" says Garry Adey

With an increasing range of equipment available ex stock or specialist built to order applications European Attachments Group certainly has high hopes to meet the growing demand.

The 3 Brands that European Attachments Group will supply to the UK market are:-

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|--------------|--|
| Simex S.r.l. | Skidsteer, Loader and Excavator Attachments              |
| TechnoAlpin  | Specialist Dust Control Turbines                         |
| Romea S.r.l. | High Quality OEM spec Buckets and Demolition Attachments |

Over the last 4 years Garry has been developing the Simex brand with many Contractors and endusers and have developed a product which is not only high quality but also value for money. Simex manufacture a wide range of products from basic planers to the very technical products like the CBE excavator crusher buckets and compactors. The range of Simex products is growing on a yearly basis and now manufacture over twenty different attachments for Skidsteer, Loaders and Excavators

The TechnoAlpin brand is one synonymous with the Alpine and skiing fraternity. They have over 20 years manufacturing experience making Snow cannons to which they are now the world market leaders in this technology. In conjunction with TechnoAlpin we have now developed this product further for the UK and European Quarry, demolition and waste recycling markets. The Patented Technology in the Dust control turbines has allowed us to develop a product which is far superior to any other dust control unit on the market. This is achieved by centrally locating our atomising water nozzles directly in the middle of the airflow. This allows us to encapsulate the atomised water inside the airflow thus reducing the amount of flared wasted water which doesn't reach the target areas. This technology can reduce waste water and sludge on site by up to 80%. We

manufacture 2 models one of which can cover an area of up to 6500 sq. mtrs and a larger unit which can cover around 11,500 sq. mtrs

Finally we have sourced the Romea brand of high quality Excavator demolition attachments and ancillaries such as excavator buckets, Screeners, Quick Couplers, Waste Grapples, Grabs, Forks, Dozers, along with Crushers, Pulverizers and Demo Grapples available in all sizes to meet a variety of tool carriers. Romea have been manufacturing this type of product for around 30 years but manufacturing on a OEM supply only, to the likes of Liebherr, Volvo, Kobelco, and JCB Italy to name a few. We are now looking at expanding this high quality brand here in the UK.

Over the next 6 months European Attachments Group is looking at a very rapid growth plan and will be looking for Sub dealer/Agents for this product throughout the UK and Eire and these products fit your market or portfolio please do not hesitate to give Garry a call to discuss further



Should any of the products in our portfolio meet your requirements then please do not hesitate to call one of our sales team at European Attachments Group on Tel 0845 474 5670 or call Garry on 07597 033512 to discuss your requirement's further.



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## Blue Washplant for Central Demolition

**Central Demolition, based in Bonnybridge in Stirlingshire, has made a significant investment in a new recycling washplant and reports excellent results in increased reclamation of recyclables, end-product quality and recovered fines volumes. Combining a range of compatible Powerscreen processing and conveying equipment - all sourced from distributor Blue Machinery Scotland - Central Demolition has enhanced its existing modern recycling plant and created a tandem configuration of specialist recycling machines to process large volumes of C&D waste for the production of a wide range of saleable reclaimed materials.**

Central Demolition is now confident that it is reclaiming between 90%-95% from the thousands of tonnes of crushed demolition waste, inert materials, and soils and skip waste fines at its Bonnybridge recycling station. Incoming raw waste materials for recycling and washing are brought in from Central's own demolition and site clearance contracts as well as other sources throughout Scotland and North East England.

Central Demolition is a multi-disciplined organisation specialising in demolition and dismantling, licensed asbestos removal, earthmoving, site clearance, plant and tipper hire, landfill and recycling. The company is a member of the National Federation of Demolition Contractors (NFDC) and complies with all the requisite industry standards and techniques. Formed in 1993, Central Demolition has evolved to become a leading national organisation in its specialist fields, with broad expertise in all its activities. The company has always placed great emphasis on

investing in the best possible plant and equipment for its various operations and has enjoyed a long and fruitful relationship with Blue Machinery Scotland when it comes to sourcing recycling plants. Managing Director Ross Craig says "We look to Blue Machinery Scotland as our single source solutions provider for all our recycling equipment needs. Blue Group is an expert in its field and we know we can rely on their experience and expertise right from the planning stage through to installation and commissioning. Additionally", he continues, "we find that their after sales product support through Blue Spares is pro-active, prompt and efficient, keeping any downtime to an absolute minimum".

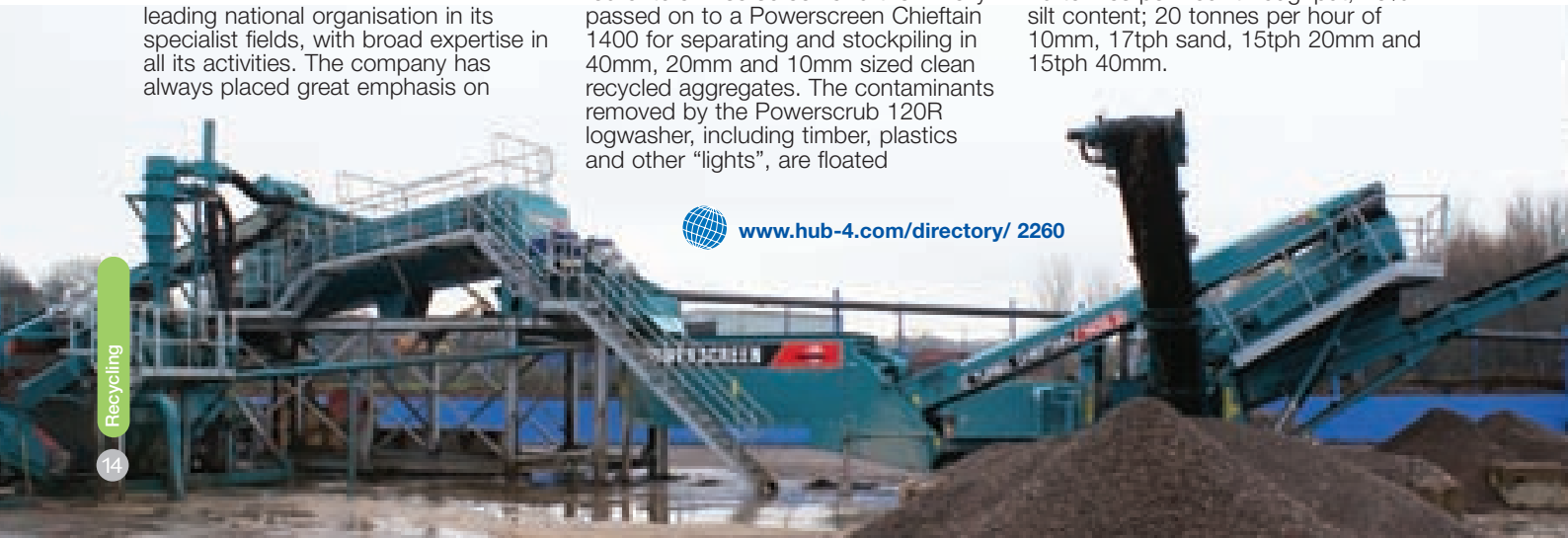
Central Demolition has installed a number of linked Powerscreen machines to enhance both primary and secondary reclamation of recyclables from the waste streams. The new plant array consists of a Powerscreen Warrior 800 flat-bed screening plant which is used as a pre-screener, scalping off +50mm materials and 6mm fines. The larger end-product is conveyed on to the washplant system via a Powerscreen 1400 feeder, a 5032 conveyor and an overband magnet for ferrous removal and thence into a Powerscreen Powerscrub 120R logwasher.

Here the incoming material is intensively mixed with blades and paddles in a special trough which produces a friction action to break down the contaminants, allowing the scrubbed material to be discharged, fed onto a rinse screen and then finally passed on to a Powerscreen Chieftain 1400 for separating and stockpiling in 40mm, 20mm and 10mm sized clean recycled aggregates. The contaminants removed by the Powerscrub 120R logwasher, including timber, plastics and other "lights", are floated

off and dewatered on a trash screen ready for sorting and reclamation as appropriate.

Sand, slurry and dirty washwater - the inevitable bi-product of the washing process - is also further recycled, wasting little in the process. Collected and transferred to a Powerscreen Finesmaster 60, the commingled material is pumped from the receiving sump to the Finesmaster cyclone where clays, silts and slime are removed, with the water being discharged to the settlement ponds for reuse within the washing system. The Finesmaster process produces a cleaner washwater which, through an improved materials recovery, has increased the recyclable material extraction with a corresponding reduction in settlement pond maintenance and the associated costs. Sand from the cyclone is discharged, dewatered and stockpiled by a Powerscreen T 4026 conveyor/stockpiler.

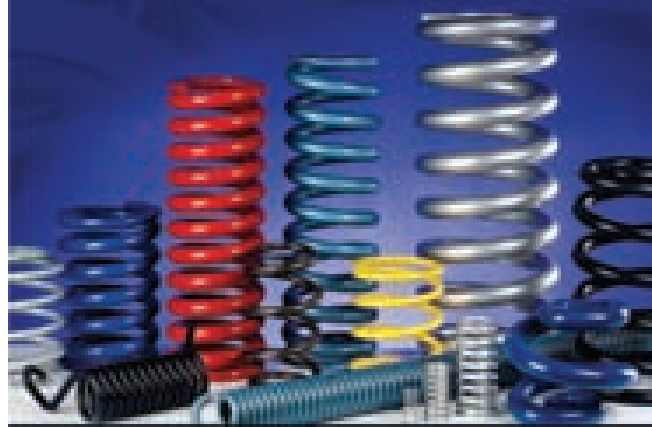
From the large daily tonnages of waste that come into their Bonnybridge recycling station, Central Demolition is able to reclaim an increased range of clean saleable materials, including ferrous and non-ferrous metals, recycled aggregates in various specified sizings, sand, composting, soil improvement and landfill cover materials, board, timber, plastics and paper. Volumes of non-recyclable materials are minimised by the processes, with all the environmental and cost-effective benefits of tip-to-landfill reduction. The new washplant has production capabilities as follows:- 75 tonnes per hour throughput; 10% silt content; 20 tonnes per hour of 10mm, 17tph sand, 15tph 20mm and 15tph 40mm.







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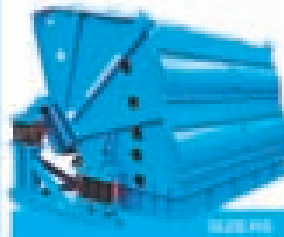
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## New Waste System for Skip-It - Sorted!

**A family run business Skip-It is dedicated to protecting the environment offering a professional and reliable skip service that's committed to responsible waste management recycling which deals with waste efficiently and effectively with the environment at heart.**

With over 25 years' experience in the waste management industry Skip-It has continually invested in the latest recycling technology. Their latest investment in a completely new waste sorting station has reinforced their ethos to guarantee to recycle more of the waste than any other comparable skip provider in the region has been an extremely effective tool for their incoming waste feed.

Installed two years ago the DUO Manufacturing (LJH) Waste Sorting System has dealt with thousands of tonnes of waste. Designed to handle commercial and domestic skip waste the plants incoming waste stream requires some pre-sorting to limit size of materials to - 600mm and within a weight limit of 25Kgs and also to ensure the removal of any combustible or corrosive materials.

Operating at up to 50tph depending on material bulk, density and condition, the new system has allowed Skip-It to operate in a safe working environment to handle the waste. All incoming waste is now handled so efficiently that the daily incoming waste stream is cleared by the end of the morning.

The new system is of robust construction and is a tried and tested efficient design manufactured by DUO Manufacturing (LJH) who have extensive experience in major engineering projects in the Quarrying and Recycling Industries.

Dudley Lloyd - Director, commented, *"Using all our experience in the industries we serve we apply the same robust standards in design and build to any project, regardless of size or application. The Skip-It Waste Sorting System is built to ensure minimal maintenance and standardises on consumables and wearing parts."*

The process is very simple with incoming waste materials being fed by wheeled loader into a feed hopper, materials then passing through a vibrating feeder and onto an inclined conveyor. This belt then feeds into a 4 bay trommel screen which mechanically grades the fines fraction into two sizes by further screening. All oversize material is then subsequently fed onto a link conveyor to the four man picking station. This link conveyor is fitted with an air knife blower, situated just below the head drum this blower separates any oversize lightweight materials which are then transferred to a bay situated under the tail end of the picking station.

All heavy materials then move onto a 1200mm wide picking belt where each picking station comprises of a discharge chute and a continuous centrally positioned pull wire for emergency stop situations. Situated within an operating cabin the four man station offers a safe and efficient operation with each operator manual selecting and rejecting specific materials not required in the end product via discharge chutes into 40 cubic yard skips below.

Any metals on the picking belt being subsequently removed by an overband magnet situated between the last picking station and the discharge end, all materials been discharged via chute.

Built to maximise on available space all conveyors are fully guarded to BS 7300 and all machinery is designed and manufactured to comply with the European Directive 98/37/CE, with all electrical work complying with current IEE regulations.

Commissioned in September 2008 the system has worked efficiently and has proven to be an asset in the handling the daily waste stream.



*The new press leaves the Haith manufacturing base for delivery to site*



## Haith supply new press to KSD and improve efficiency and reduce cycle times

**Haith Industrial have recently manufactured and completed the supply of a new side bar filter press for KSD Recycled Aggregates at their Coleshill Recycling Facility near Birmingham.**

For the past decade KSD has taken waste materials generated by the construction industry and have reused or recycled them back into this sector.

At the KSD Recycling Facility near Coleshill, construction and demolition waste are being converted into WRAP quality protocol recycled aggregates with the finished product reutilised as an alternative to quarried material.

Having successfully recycled over 1 million tonnes in recent years the company owes its success to the fact that it has an established and sophisticated crushing and screening operation in place. Also within the site is an aggregate washing facility which produces high-end use, washed recycled aggregates.

With a desire to increase the efficiency of the dewatering operation within the washing facility KSD approached Haith Industrial who after conducting several site evaluations were awarded the order to manufacture and supply a replacement press. Haith supplied a new fully automatic 12 bar rated side-bar press in contrast to an existing 8 bar side bar press system previously supplied by others. Specifically designed to improve on the cake dryness and overall cycle times the new Haith press contains 64 - 2mt x 1.5mt chambers and deals with a <63 micron silt which is generated from the processing of recycled aggregates from C&D derived waste at the facility. The new 9.3 metre long press efficiently handles 4915 litres of total volume and processes 9093 kg of dewatered cake per cycle with a cycle time as low as 25 minutes.

Delivered on schedule the new press was installed and commissioned by Haith engineers.

Phil Redden - Site and Sales Manager of KSD Recycled Aggregates, commented, "We were impressed with the speed and friendly approach that Haith brought to this project. The output of the press speaks for itself with regard to the quality that has been built into the finished plant."

Haith Industrial is part of the Haith Tickhill Group, based at Armthorpe, near Doncaster. Manufacturing equipment since 1965 the company has provided solutions to both large and small companies in the UK and abroad to improve production, produce quality, reduce labour and automate production. The company 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 your labour costs and increase production.



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# Max Solutions provides the Edge for Nottinghamshire Recycling

**Based in Worksop Nottinghamshire Recycling Ltd (NRL) own and operate three recycling centres and offer a national waste collection service through their extensive fleet of vehicles.**

**Currently servicing over 50 clients (including many blue chip companies) NRL are passionate about recycling and are fully committed to reducing the carbon footprint and landfill and all the associated environmental issues. The company currently process 150,000 tonnes/annum across all three sites and with commercial and industrial waste the current dominant waste stream there is a constant need for size reduction of incoming material to be processed through the on-site MRF at the Worksop site. With over 20,000 tonnes of shredded material processed in the last 12 months NRL are currently driving toward an SRF.**

With efficient size reduction an essential element of their waste processing operation NRL have recently invested in an EDGE® Slayer, twin shaft, slow speed Shredder for duty at their Worksop recycling centre. Built entirely in the UK the machine has been supplied by MAX Solutions Ltd the UK dealer for EDGE® who is a global manufacturer of recycling equipment that is distributed worldwide.

The decision to purchase an EDGE® Slayer Shredder was taken after extensive trials with 3 other competitor machines. The machine fitted with an overband magnet is employed on shredding waste reducing the waste down - 200mm. With the ability to process a wide selection of extremely difficult materials, including waste wood, railway sleepers, root stems, green waste, industrial and bulky waste, plastic, paper rolls and tyres the high performance EDGE® Slayer is capable of processing between 15-40 tph depending on application and is available with various shaft configurations.

Peter Sanderson- General Manager - NRL, commented, *"With a current lack of C&D waste we have had to review what is being processed. The majority of the incoming waste stream is commercial and industrial waste and there*

*is a need to reduce this in size for further hand processing in our MRF. Additionally, we have to be extremely competent in our processing as we are also contracted by several high profile companies to confidentially destruct materials which need to be shredded and recycled for reuse which has resulted in 8,000 tonnes being diverted from landfill and into fuels in the last year."*

The new EDGE® Slayer Shredder is now playing a key role in this new direction as a prime shredder for NRL who are currently supplying three power stations with a suitable wood chip product with a high biomass content which is being processed with ease due to the flexibility of the new machine.

Coming out a clear winner for NRL the EDGE® Slayer incorporates a unique wrap around comb system which is extremely effective when processing waste materials. In operation the twin shafts move in a forward and reverse motion depending on application. When in reverse the combs wrap completely around the shafts and effectively block any debris becoming involved with the shafts thus maintaining a consistent piece size. The machine has various settings on the PLC which determine the forward and reverse cycles of the shafts and also allows the shaft configuration to be set up for different applications.

The beauty of the machine lies in its small footprint and manoeuvrability in tight spaces. Driven by a CAT C9 engine the EDGE® Slayer is controlled by the PLC computer which includes safety features which on detection of foreign objects will automatically shut the machine down to protect the shafts. Maintaining low dust levels whilst shredding it provides consistent and uniform





material sizing, producing materials that can be re-handled after processing.

Specifically designed with forward compatibility in mind the EDGE® Slayer is built to suit Tier IV in 2011 and features reduced noise and fuel consumption compared to its rivals, and is cheaper to run with lower maintenance (replaceable tool heads and comb teeth) and ownership costs. Operated by full remote control the EDGE® Slayer is available either in tracked or wheeled versions and can be transported in a high container.

Peter Sanderson further commented, *"The performance of the new shredder has been first class and has been underlined by the reassurance of the support of MAX*

*Solutions who provide the necessary product knowledge and application experience. With their complete service back-up we have complete confidence in MAX Solutions to ensure that our processing operation is effective and profitable."*

Well positioned in the UK in Coventry and Bury St Edmunds, MAX Solutions offers a comprehensive portfolio of crushing, screening and recycling machines available from three major manufacturers. As well as the EDGE® range of recycling equipment MAX Solutions also distribute Neuson Ecotec an Austrian company who manufacture high speed shredders, trommel screens, wood chippers and wind turners. MAX Solutions also operate a complete spares division and customer service back-up facility which is fully supported by their factory trained in-house staff.



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# Sun Recycling puts a damper on dust at C&D material recovery facilities



**The largest independently-owned recycler of construction and demolition debris in Florida has adopted high-performance misting equipment to stifle dust in two busy locations, helping to prevent airborne particles from migrating off the premises. Sun Recycling has installed five DustBoss® units between the two facilities, permanently mounted in elevated locations for broad coverage of the tipping floor. The move supplements the company's existing dust management measures, proactively addressing a common industry problem.**

*"A certain amount of dust is inevitable in our business," said Facility Manager Paul Valenti. "We wanted to employ the best technology available to suppress airborne particles and prevent them from travelling."*

Three of the five machines from Dust Control Technology (Peoria, IL) are at the Pompano Beach facility, where they're permanently installed in an outdoor location. The two Dania Beach units are in a building, and all five are tower-mounted to extend their range and effectiveness. *"By elevating the units, we give the droplets more hang time,"* Valenti observed. *"That gives them more opportunity to contact dust particles and drive them to the ground."*

Dust can be released in just a few seconds when trucks are dumping or front loaders are transporting material, and Sun wanted to find a technique that would address the problem in the immediate area, as it was occurring. According to Valenti, the two facilities run the oscillating dust suppression equipment virtually all day, as long as

processing operations are underway. After a brief start-up sequence, the machines run unattended, allowing staff to concentrate on core activities.

Sun Recycling currently owns and operates ten facilities in South Florida, recycling more than three million cubic yards of material per year in all. The firm reclaims steel and other metals, wood, plastic and cardboard, using a combination of mechanical processing and human intelligence. Sun's operations currently recycle an average of 84% of the materials received across all facilities, with some locations above 90%.

## Advanced Dust Management

The company has purchased three different equipment models to suit specific locations. The DustBoss DB-30 is the smallest member of the family, a versatile unit with a 7.5 HP fan motor that generates 9,200 CFM of air movement. The ducted fan design has an adjustable throw angle from 0-50° elevation and oscillates up to 70°. With a throw of up to 100 feet from ground level, the DB-30 delivers exceptional coverage of more than 5,000 square feet using just a standard 5/83 garden hose. From its elevated perch at the Sun Recycling locations, the unit's reach is far greater.

Sun also has two DB-45s, a compact oscillating unit that can deliver a virtual dust blanket over 12,000 square feet of area (1,115 square meters) from a single location, with a throw of nearly 150 feet (45 meters). With its 15 HP (11.2 Kw) fan, the DB-45 generates 18,000 CFM (510 CMM) of air flow to maximize coverage and particle capture. The design features adjustable elevation from 0-50° and

can be ordered on a wheeled carriage mount or a frame with skid mount.

Rounding out the suppression network are two DB-60s, the largest model in the DustBoss product line. Launched by a powerful 25 HP motor that generates 30,000 CFM of air flow (nearly 850 cubic meters per minute), the atomized spray has a throw of more than 200 feet (approx. 60 meters). When equipped with optional 359<sup>o</sup> oscillation, a single machine can cover more than 125,000 square feet from one stationary location (a standard football field is 48,000 SF).

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



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## The Swiss AlpTransit line choose Baioni machinery

**Baioni Crushing Plants Spa successfully gained success one year ago when, for the Ceneri base tunnel, the contractor consortium Condotte Cossi opted for Baioni's latest mobile crusher to carry out the excavation. One model repeated four times. Four are the crushers bought to complete the whole work.**

Besides the works of the renowned Gotthard Base Tunnel in Switzerland, part of the Swiss AlpTransit line, there is another important tunnel: the 15.4 km long Ceneri Base Tunnel in the canton of Ticino from the north portal near Camorino, the south portal at Vezia and in the installations cavern of the intermediate heading at Sigirino. This tunnel with two single-track bores continues the Swiss AlpTransit line south of the Gotthard Base Tunnel and is, like Gotthard, built under contract from the Swiss Federal Government by Alptransit Gotthard AG.

The commercial operation of the Ceneri Base Tunnel is planned to start at the end of 2019. Upon its completion it will allow high-speed rail and heavy freight trains, both of which were not possible in the existing steep track over the mountain of Monte Ceneri.

BAITRACK 130/85B AP, fully customized by the contractor for tunnelling purposes, is a complete crushing and screening system that can work large quantity of big size materials, even in confined and narrow spaces like tunnels. It consists of an apron feeder BAIONI AVS 200/1, designed to ease the feeding load by lowering the hopper, a pre-screen BAIONI V122/250. BAITRACK 130/85B AP is built around Baioni's large jaw crusher, the BP 130/85B, which has feed opening measuring 1,300mm x 860mm. The inclined apron feeder delivers the feed load from a low-level hopper to the crusher, with the finest material being pre-screened by the grizzly.

BAITRACK 130/85B AP combines the phase of primary crushing and a first granulometric control, as to reduce the feeding size that will be eventually conveyed outside. The whole unit exploits the crushing capacities of the big crusher to its maximum extent, with a max. Production of 450T/h (0-250mm). It is the only one of its kind in the world to be fully driven by electric motors, both for unit motion and production. For the first time ever this self-propelled machine is equipped with an electric motor to power the movement of the tracks, which is especially beneficial where operating space is limited, such as on smaller quarry or demolition sites, but where high performance is still required.

The mobile crusher can be operated remotely via a standard remote-control system, while a range of optional equipment allows the creation of custom-made units for improved work flexibility. It is also easy to transport and quick to set-up, and complies with safety and environmental standards.

BAITRACK 130/85B represents a totally new concept in tracked crusher design, with the aim of increasing production and reducing operating costs. The advantages over hydraulic versions are said to include: a more energetic performance; lower operating costs; lower maintenance costs; reduced disposal of oil filters; lower environmental impact; and smoother, more accurate drive.



## Eastern promise for Robson

**Darnall based Geo Robson & Co Ltd have travelled far and wide to secure important contracts in the Middle East.**

Working closely with Belgium based Design Engineers to design and manufacture a Sugar handling system for Hodeidah, Yemen. The £2.5 million system has over 40 belt and screw conveyors, with the total length of the belt conveyors spanning over 1,200m. The system conveys over 2000 tons of Raw Sugar per day, from the port to the 100, 0000 ton warehouse facility.

With the importance of the logistics and the critical design specification, Robson's Mick Mosley is leading from the front in the Project Managers role. Mick has been with the company 27 years and is the company's Sugar System Expert having managed Sugar System Design and Installations worldwide.

"With the complex build, accuracy is key, the team of Engineers at Robson very well experienced in this field, early indications are that an on time delivery and on budget build is expected" stated Mick Mosley adding "Other important factors within the build had to be considered such as the explosive atmospheres generated by the sugar, with all the conveyors undergoing stringent testing and certification for Explosive atmospheres" (ATEX).

The equipment will be manufactured and pre-assembled at the Robson factory and then shipped to Yemen for installation.

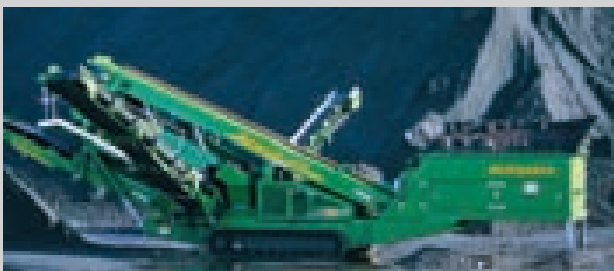
Saudi Arabia is the destination for another Robson Handling System. The £1 million Salt handling system is part of a larger plant build by Korean Engineers, Daelim Industrial Co Ltd.

The system handles rock salt from a lorry unloading facility across a 100m conveyor to a Tripper Conveyor in the roof space of the warehouse ensuring an even and level storage pile. The design of the conveyors had to meet exacting standards to ensure the conveyors can perform under the corrosive nature of the salt.

Robson's Project Manager on this build is Brian Jackson one of Robson's most experienced managers with over 41 years with the company. With recent trips to Seoul Korea to discuss the design direct with the designer, Brian is confident of a smooth manufacture and build.

With the recent successful project gains, Robson has increased its workforce with new additions within the technical department including Structural Design Engineers, Project Engineers and Draughtsmen with a total of 10 new recruits the company is confident at meeting the challenges ahead.





## APR supply two more S130 McCloskey Vibrating Screeners to increase efficiency at M&G Solid Fuels

**With screening efficiency high on the agenda for M&G Solid Fuels, the company has recently taken delivery of two more McCloskey S130 Vibrating Screeners from Aggregate Processing and Recycling (APR) the UK distributor for McCloskey.**

Founded in 1983 as M&G Fuels Ltd, the company originally processed imported cargoes of coal which were screened, washed, re-screened and sold to appropriate markets. With increasing tonnages a second site at Redcar was eventually opened with the company screening over 1 million tonnes of coal per annum. The company also imports Petroleum Coke, which is again screened with the fines being used at their own Briquetting Plant to manufacture briquettes under the Burnwell Brand for domestic use.

Further diversification occurred in 2008 due to a new team and a name change to M&G Solid Fuels LLP, into other markets - such as Metallurgical Coke being established with the material again being screened to suit customers' requirements.

With screening being at the forefront of all operations, M&G need to rely on screens that can work in harsh environments with maximum efficiency. With over three year's usage of the McCloskey product, it wasn't a difficult decision to invest in another two S130 Vibrating Screens to further enhance the production process at their Redcar operation. They now operate six S130 Vibrating Screens and are slowly phasing out the other brands.

Today the McCloskey S130 represents the most advanced 14' x 5' portable vibratory screening plant in production and is designed to meet the demands of operators who require significantly more screening capacity than a 10' 0", or an 11' 0" screen box can offer, without the massive throughput of a 20' 0" plant.

Ideal for coal screening, quarrying, recycled products, sand & gravel and crusher circuits the McCloskey S130 flat deck screener comes equipped with 130 square feet of screening area, across a 14' x 5' top deck and a 12' x 5' bottom deck. With this aggregate processing power comes flexibility. The McCloskey S130 screen box can be hydraulically angled between 25 and 38 degrees and the frequency can also be altered in situ thanks to the hydraulic drive system. This gives the McCloskey Screens advantages over the competition by allowing for easy setup to suit a wide range of materials, while the higher angle settings permit high production levels of sand screening that only McCloskey can offer. The 'S' range also boasts 15' hoppers as standard with the largest opening to the screen feed conveyor in its class.

After 3 years of usage of McCloskey S130 screens, the production team have found them to be excellent. *"They are very fast and reliable and unlike other brands in the market don't 'get tired' after an hour's work, running slowly or even stopping. McCloskey Screens have really taken us by surprise! They work at a constant high speed and give us consistently clean end products, and by ensuring that we don't have to re-screen material we keep our costs at a minimum."*

*"Maintenance on the S130 couldn't be easier and our fitter, Tommy, is delighted that he no longer has to work in 'back breaking' positions to change oil filters and perform routine maintenance on the engine, as he can now stand up and comfortably perform his tasks."*

*"Hats must go off to the McCloskey designers as they have noted flaws in other manufacturers' machines and have worked hard on improving these. Consequently, their Screening Plants can perform consistently and give you the perfect end result."*

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# Canning Conveyor adds the final touch!



Following previously successful projects for Dosco Overseas Engineering (DOE), Canning Conveyor have recently supplied an integral troughed belt conveyor for a DOE Mk4 Roadheader which has recently been delivered to Caucasus Hydro Construction (CHC) in the Republic of Georgia CHC who are a totally owned subsidiary of Caucasus Energy and Infrastructure are currently involved in the Mikvari Hydro Power Plant Scheme situated in the Akhaltsikhe District, Southern Georgia.

The scheme includes a bridge over the Mtkvari River, roads to access the area and an electrical transmission line to connect the site into the grid. With a potential installed capacity of 46.4MW the scheme will have an annual power output of 253 GK/h with construction approximately 3.5 years.

A 400-500 kV HV transmission grid is also being built between Georgia and Turkey to allow electricity sales into meet the constantly rising electricity demands of Turkey.

As part of the construction DOE has manufactured and supplied an Mk4 Roadheader which will drive a 9.7 kilometre water transfer tunnel. The 96 tonne Mk3-4 Roadheader is a heavy duty machine capable of economic operation in strata's up to 120MPa compressive strength.

The machine is unique in that it is of sectionalised, bolt-up design to enable easy component replacement, transportation and on-site dismantling and assembly. Electro hydraulically powered the MK4 has a powerful 250kW cutting boom and over 500kW of installed power and includes an integral rear swivel conveyor for loading onto dump trucks.

Made of steel plate and channel frame construction the eight metre long 1000mm wide troughed belt conveyor and hopper was designed and manufactured by Canning Conveyor of Worksop, Notts.

Driven by an external hydraulic shaft mounted slow speed 22kW motor (supplied by DOE) a 420mm diameter rubber lagged drum provides a belt speed of 1.4 mtr/sec resulting in a capacity of 497 tonnes/hr of coal having a material density of 1.0m<sup>3</sup>.

Canning's participation in the project has ensured the final design has been a success. Martin Cain (CEO) commented, "We approached Canning Conveyors after our customer CHC, indicated the need for a specialised conveyor system on our Roadheader. Their valuable design input and quick response time was the key to meeting our commitments to our client."



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# Sandvik Mining and Construction supply key equipment for the Salalah bypass

Construction work has been undertaken for the last twelve months on a RO 19.5million high way development in Salalah, which is aimed at significantly strengthening road communications in this part of the Oman, in the United Arab Emirates. Thirty two kilometres in length, the Salalah bypass will span the entire length of Salalah City as it runs from Raysut in the east, towards Ayn Razat in the west.

The four lane bypass, which has been built to international all weather standards, possesses important benefits in ensuring the smooth flow of traffic through Salalah city onto the Salalah-Thamrait-Nizwa highway system. Foremost amongst these benefits will be its role in allowing heavy goods vehicles better road facilities that are more suitable for their requirements. This is needed as large volumes of freight traffic are expected to be generated as new investment in the port; free trade zone and industrial estate generate greater industrial capacity in the coming years. Thus, when fully operational in 2011, the bypass will be capable of handling all heavy freight in and out of the port together with the industrial zone at Raysut, thereby easing traffic along the existing Raysut-Salalah road.

Due to the vital importance of the development the construction of the Salalah bypass has been placed on a fast-track footing by the Supreme Committee for Town Planning - an organ of Oman's Ministry of National Economy. The contract for the RO 19.5 million project was recently awarded to the local construction firm, Oman Building and Contracting Company, with the well known Omani engineering consultancy, National Engineering Office (NEO), being the design consultant for the project.

The Oman Building and Contracting Company LLC are fast becoming a leading light in Omani construction. Since their formation in 2005 they have gone from strength to strength, with now over 110 well trained and professional staff employed. Their success has been based on excellence in all their activities, placing due emphasis not

only on the best equipment, professional development of their staff, but a commitment to providing the highest standards of operational health and safety. This commitment to delivering the very best professional service has been recently recognised as "excellent" by the Oman Industries Commerce and Tender Board.

As a company Oman Building and Contracting Company LLC has placed a great deal of emphasis on "excellence" in its operations. To this end, a key feature of the success of the Salalah bypass has been the processing of materials during the construction of the highway with mobile screening and crushing equipment used by the company manufactured by Sandvik Mining and Construction. The Sandvik fleet has been supplied through the Sandvik dealer in the region, Al Fairuz Trading & Contracting Co.

Established as a trading company in the 1972 by Sheikh Salim Suleiman Al Fairuz, today Al Fairuz Trading is considered as one of the largest construction equipment companies in the Sultanate of Oman. With a staff of 150 people in three locations - head office based in Muscat, branch offices at Salalah and Sohar - Al Fairuz provide sales, parts and service facilities at both offices. Additionally, and to highlight the customer focused nature of their operation, full workshop and warehouse facilities are also provided to ensure minimal machine downtime.

A principle reason for the acquisition of the Sandvik machinery was due to the fact that at various locations in the project crushers and screening systems were needed to be used in conjunction in order to produce a range of base materials, and aggregate, for asphalt and civil engineering works from the indigenous materials. The Al Fairuz supplied Sandvik machinery has been found to provide flexibility, mobility and unique reduction rates, thereby making a tremendous contribution to cost reduction through facilitating the processing of any suitable indigenous materials to be found in the vicinity of various road construction segments.





All the Sandvik impact and jaw crushers, together with assorted screens used on the Salalah road construction project, are track mounted, self propelled and diesel hydraulically powered, enabling them to go to the source of any material as quickly as an excavator in order to commence processing immediately. The screens and crushers may be used either individually or in groups, and can be relocated within hours to a new segment of the project thereby combining productivity and flexibility.

One of the impact crushers used is the QI430; this was the first machine developed following Sandvik's acquisition of Fintec and Extec. Appropriately, this unit combines Fintec's and Extec's expertise in the design of track-mounted mobile crushers, with Sandvik's proven ability to manufacture durable and highly productive impact crushers. Powered by a fuel efficient 330 kW C-13 Tier 3 compliant diesel engine, the Sandvik QI430 is carried on a maneuverable tracked undercarriage and incorporates a Sandvik CI322 impactor with a fluid clutch drive. Fed via a two deck pre-screen, the crusher is a four hammer open style rotor with a diameter of 1,150mm, and a width of 1,330mm that discharges onto a secondary pan feeder. The plant is also equipped with a primary feeder and a separate two deck pre-screen.

Building upon the highly advanced features of the world famous Sandvik Doublescreens the screener used in the project is the QA450, which introduces a triple deck screen box, with an extra side conveyor, enabling it to produce up to a total of four product materials



plus one oversize from the tipping grid. Designed for maximum productivity combined with accurate product sizing, the QA450 incorporates a large feed hopper, a pair of large screen boxes and extended conveyors that afford massive stockpiling capabilities. The screen box in the QA450 makes use of the tried and tested Doublescreen design, but now with a unique triple deck design cementing Sandvik's position as a true world leader in mobile screening technology.

The material being processed is known as "wadi-gravel", which consists of a mixture of limestone and basalt. The material possesses a feed size of 0-500mm, with the QI430 and the QA450 being used as a crushing and screening train to produce: 0-5mm, 5-12mm, and 12-22mm gradings. These two highly productive pieces of equipment are currently working two ten hour shifts each day, averaging an impressive production of 250tph over the last twelve months.

In order to enhance the flexibility of the screening and crushing operation a third machine is used to produce a 0-50mm grading - the Sandvik QI340 with product recirculation system. This is a large heavy duty tracked crusher incorporating the definitive Sandvik impact crusher; the QI340 combines the revolutionary mobility, power and design of Sandvik with productivity at its core. This ensures that the QI340 is the ideal machine for contractors and quarry operators who require a very high throughput machine, capable of producing a high quality end product.

To date the Sandvik machinery has proved equal to the task in processing the material, working twenty hour days. The combination of state of the art Sandvik manufacturing, together with high levels of aftermarket support from Al Fairuz, will ensure that the Salalah bypass is completed on time, and with materials of the highest quality.

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A large blue and red ship, the BBC Greenland, is docked at a port. A yellow crane is lifting a large container from the ship. The ship has "BBC GREENLAND" written on its side.

# Handle with care: Allseas takes on glass factory relocation

Allseas Global Logistics always 'handles with care' – and it has stepped up to the challenge once again, taking on the relocation of a glass factory from Birmingham to Brazil.

Working with its sister company International Export Packers, Allseas was appointed by Pilkington to dismantle, pack, consolidate and transport everything from a huge furnace and glass ovens to a variety of other highly specialised and delicate equipment, all destined for a new 'home' in Santos, Brazil.

Allseas fixed the 119.8 m long multipurpose heavy lift vessel BBC Greenland, which was loaded at Ellesmere Port. The Pilkington shipment added up to 90 cases totalling 2,100 cu m, and the use of the BBC Greenland was strategically planned to enable the shipment of two other consignments on the vessel – equipment for a petrochemical plant, and a delivery of oil and gas equipment, both into Santos. The three consignments together added up to a total 3,000 cu m.

"The relocation of the entire contents of a glass factory has clearly demonstrated and drawn on the strength and depth of what we offer as a group," says Allseas managing director Andrew Morris. "We put our own team of highly experienced plant and machinery engineers and movers into the factory, to unbolt, dismantle and load to flatbed trucks and low-loaders for onward road transport."

"The entire consignment was moved to our logistics centre at our main Newark site, where it was packed in the most efficient and space/cost-effective way for onward shipment. Much of the machinery is very delicate and requires very careful, expert handling. All was hermetically sealed in airtight packaging."

"There are very few companies in the UK who can physically handle and move such equipment but we have the benefit of probably the most advanced packing operation in the UK."

International Export Packers employs about 70 people and has a 12 acre packing and handling facility at Newark and a 100,000 square foot indoor packing and storage facility at Swinderby. The company designs and makes cases for some of the largest cargoes moving. "A key advantage is close liaison between packers and movers throughout the project, to ensure the most efficient use of space, whether on truck or ship," says Mr Morris. "We can devise innovative transport solutions and liaise with our clients to save them time and money."

Allseas was also able to draw on the considerable range of handling equipment available at its international logistics centre at Newark, including a fleet of forklifts with lift capacity up to 27 tonnes, and significant onsite craneage.

"We have the in-house heavy lift engineering expertise to enable us to work out load points and adjust packing accordingly, even as far as liaising with the client to remove machinery parts to create optimum loads," says Mr Morris.

Allseas and International Export Packers are extremely buoyant at present and a reflection of this has been the promotion of Darren Sorsby, who has moved from Allseas' operations team in Brighouse to head up a new Out-of-Gauge Division at the group's headquarters in Newark.



*Allseas Global Logistics shipped the contents of a glass factory from Birmingham to Brazil, adding up to 90 cases.*

Allseas is experiencing an increase in demand for factory relocations, mainly moving to developing/emerging markets, and is also very busy with a full range of project work. It is meeting high demand for power generation and oil & gas related projects in particular.

"Allseas Global Logistics is far more than a freight forwarder," emphasises Andrew Morris. "We are freight packers and freight movers, offering the full door-to-door package to our clients and specialising in project, heavy lift and out-of-gauge movements."



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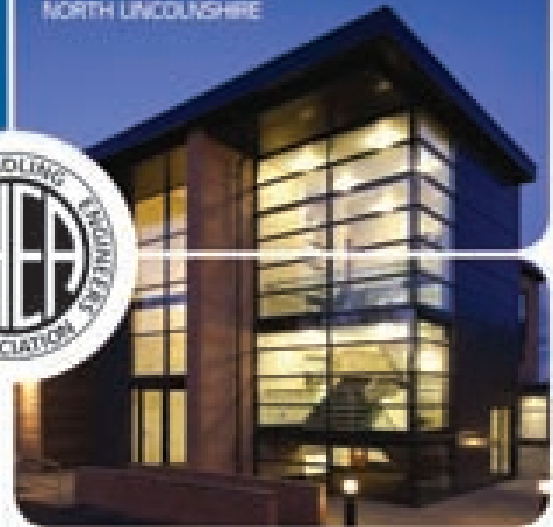


MATERIALS HANDLING ENGINEERS ASSOCIATION

# 2011 BULK HANDLING CONFERENCE

11-12 MAY 2011

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## MHEA is pleased to announce the Programme for the 2011 Bulk Handling Conference.

The 2011 Bulk Handling Conference, organised by MHEA has moved to a highly attractive North Lincs location at the Forest Pines hotel which has 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 option of a sports event /leisure break on the Friday.

### GALA DINNER/ AFTER DINNER SPEAKER

Wednesday 11 May

Including after dinner speaker Sid Dennis who has a capacity to relate stories in full glorious Technicolor ensures we are in for a great evening.

### GOLF TOURNAMENT

Friday 13 May

Why not stay over an extra night and take part in the MHEA Golf tournament, Forest Pines offers a superb opportunity to enjoy a round and is a fair test of Golf for all levels, 18 holes followed by prize giving and a bite to eat before departing.

## PROVISIONAL PROGRAMME

### WEDNESDAY 11 May | Registration from 11.00am

#### SESSION 1 | Conveyor Belt Technologies

- The impact of the idler set on the performance of belt conveyors
- Conveyor Diagnostics including Remote Scanning Technology
- Steep Incline/Vertical Conveying as opposed to Conventional Conveyors
- Developments in Conveying and Material Transport – Pipe Conveyors

#### SESSION 2 | Biomass Handling and Storage

- Best practice guide for handling of biomass fuels and coal-biomass mixes
- Configuration of a large-scale biomass bulk terminal
- The storage & handling of solid bio fuels
- Biomass Handling, the issues

### THURSDAY 12 May | Starting at 9.00am

#### SESSION 3 | Technology and Innovation

- Sealing systems for bulk handling powders and liquids
- The optimisation of bulk terminal logistics using information technology
- New milling technology to meet fine grinding requirements

#### SESSION 4 | Spillage and Dust Control

- Dust control in waste recycling
- A new design of discharge hopper that allows granular product to be discharged from height
- A new conveyor belt pre cleaner – the development behind the design

#### SESSION 5 | Conveyor Drives

- Single and multi-conveyor drives with alignment free mechanical drive and innovative Drive Control
- The applications of the Motorised Drive-Drum in Coal Preparation and Handling Plants
- Direct Drive Systems as applied in material handling and belt conveying applications

#### SESSION 6 | Projects

- Developments in the area of IPCC (Inpit Crushing and Conveying)
- Optimising the Design of Large Scale Storage and Load-Out Facilities an Australian Perspective
- The development and implementation of effective recycling systems

## HOW TO BOOK

Contact MHEA Secretary Peter Webster:

Call: +44(0) 1353 666 298 Email: [pw@mhea.co.uk](mailto:pw@mhea.co.uk)

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## Woldgrain Storage Ltd expands with the help of Guttridge Equipment.

Woldgrain Storage Ltd based at Hemswell Airfield in Lincolnshire was established in 1980 to store grain on behalf of its members. As a farmers' cooperative it works on a non-profit basis and the storage space is owned by the membership of shareholders. A board of eight farmer members oversee the store management and the primary objective of the business is to provide a cost effective storage option for farmers.

Over the last 25 years, it has expanded to its current capacity of 30,000 tonnes of ventilated storage and recently has just completed phase one of a major expansion programme which will see the capacity eventually rise to 57,000 tonnes.

A grant from the Rural Development Programme for England (RDPE) which is managed in the region by East Midlands Development Agency (emda) provided 37% of the capital cost, has allowed for the building of 26,000t of new storage with 13,000t available for harvest 2010 with the remainder available for harvest 2011. The new facility will include five new intake pits, a new high capacity drier, new colour sorter, high capacity cleaners and a gravity separator.



*250tph intake elevators and top conveyors with the 100tph dryer feed and discharge elevators and conveyors*

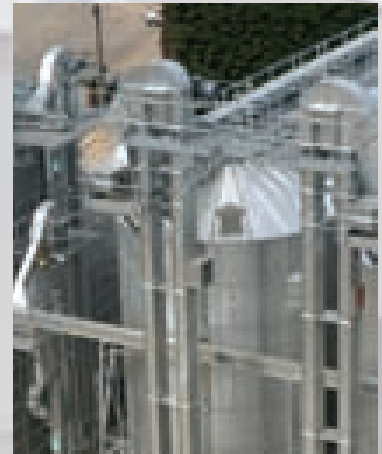
As part of this first phase expansion Lincolnshire based Guttridge Ltd who are a leading bulk material and powder handling equipment specialist, has worked closely supplying equipment to Game Engineering who were awarded the phase one contract to design, supply and install all the handling and processing systems for Clugston Construction Ltd.

Working with a tight time scale of three months Guttridge supplied a bespoke solution of thirteen chain and flight conveyors in three widths, ranging from 7- 95 metres in overall length and two 300mm wide soft flight chain conveyors all rated at a capacity of 250tph @ 750 kg/cu.m. Five Hiloal 230 and two Hiloal 370 Mk 11 belt and bucket elevators ranging from 12 -24 metres in length were also supplied. The equipment supply was completed with a screw feeder and included eighteen associated inline electro-pneumatic slides to fit the chain conveyors.



250 tph intake elevators and top conveyors feeding the intake silos between the new dryer and existing plant buildings

With a wide variety of build options and special features to suit customer's requirements and applications Guttridge Mark 11 elevators feature a 45° angled inlet and outlet to minimise loss of height whilst maximising elevator efficiency. Further features include a heavy duty curved, close tolerance boot radius plate, large access panels above outlet and on sides of boot and a special sealing plate arrangement on elevator boot bearing mounts eliminating dust leakage. Any maintenance issues have been improved by incorporating top and bottom pulleys secured to shafts with taperlock bushes and top hood splits at shaft level allowing removal of shaft, pulley and bearings in one piece.



Tony Kirk, Business Development Director - GAME Engineering Ltd, commented, "For many years GAME Engineering Ltd has sourced a large quantity of their materials handling equipment from Guttridge, for use in projects in not only the grain handling sector but animal feed, pet food production plants and the waste recycling industry. When we were approached by the principle contractor in charge of this major expansion for WoldGrain Storage, to put together the process scheme it only seemed natural to use Guttridge equipment. Not only because they are a local company but also because of their commitment to delivering quality machines on time and on budget. Both of which they achieved. This resulted in the completion date for the 2010 harvest being met."

Guttridge Ltd is a provider of a wide range of services and is a leading UK manufacturer of equipment which can fulfil most bulk handling requirements. With an extensive in-house portfolio of equipment Guttridge has also partnered with a range of Pan European equipment and solutions providers allowing them to potentially fulfil any requirement.



# NPC change the face of washing in South Africa



**Natal Portland Cement have announced major productivity and efficiency improvements at their Sterkspuit quarry in KwaZulu-Natal, South Africa following the introduction of a new washing plant from CDE Global.**

The loss of quality fines during the sand processing phase of production has been eliminated following the introduction of the CDE Evowash plant to replace a bucket wheel dewaterer previously employed at the Sterkspuit site.

NPC also report an industry first with the introduction of an Aquacycle high rate thickener allowing for the recycling of 90% of the water used in the washing of their crushed material. While thickener systems are in use throughout the mining sector in South Africa it is believed that the CDE Aquacycle now in operation in the first of its kind in a crushed rock or sand and gravel application.

NPC are a subsidiary of global construction materials producer, Cimpor of Portugal and operate eleven facilities in South Africa with total production of 1.7 million tons. These include seven ready mix concrete plants, three aggregate production plants of which Sterkspuit is one, two grinding plants and one cement plant.

## The washing process

Sterkspuit quarry is located in the Cliffdale area some 30km from Durban on the eastern coast of South Africa. The CDE washing plant is processing Tillite from the existing blasting and crushing operations and the washed material is being sold by NPC for use in the production of various asphalt mixes and as a replacement for river sand in their own concrete plants.

From the crushing plant the minus 9.5mm material is first sent to a CDE Prograde P2-75 double deck rinsing

screen fitted with modular Isenmann polyurethane panels on both decks. The Prograde produces a 6.7-9.5mm and a 5-6.7mm aggregate with the minus 5mm material being delivered to the sand washing phase.

The Prograde is specifically designed for washing which is a major advantage when compared to many other screens on offer according to CDE. *"In the majority of cases rinsing screens are simply dry screens with the crude addition of a few spray bars"* explains CDE Sales Manager in South Africa, Des Crawford. *"The spray bars are only a small part of the overall design which we believe makes the Prograde screen the most effective aggregate washing screen on the market."*

The design and construction of the spray bar assembly which is a fully independent structure is one of the key features of the ProGrade range.

*"The spray bar assembly is not rigidly connected to the screen box as is the case on many other rinsing screens"* explains Des. *"This eliminates vibration and the associated risk of plant failure."*

There is also a major focus on reducing the loss of both material and water during screening through the use of splash prevention over decks and specialist spray bar seals. *"These features are key to a safer, cleaner and more productive site"* says Des.

The advantages of polyurethane screen media on the ProGrade have been immediately clear to Dave Kendall. On the previous washing plant the wire meshes had been lasting only a few weeks due to the abrasive nature of the material being processed. The polyurethane screen deck on the ProGrade have shown enhanced performance in the first few months of operation and have resulted in a reduction in the costs of maintenance both in terms of spare part costs and the man hours. An

additional advantage is the ease of fitting of the modules when compared with side tensioned wire meshes from a health and safety point of view.

## Increasing sand washing efficiency

Prior to the introduction of the new washing plant it was the sand washing process which was the biggest area of concern for NPC at Sterkspuit quarry. *"Sand production was very inefficient with the bucket wheel that we had on site"* explains Dave Kendall, General Manager at the site.

The bucket wheel was losing up to a third of the fine sand that NPC needed for their production of asphalt sand leading to significantly increased production costs. The result of this was very coarse sand from the bucket wheel which meant NPC had to buy in large quantities of natural fine sand to blend with this coarse material. *"We had to buy in between 70% and 80% of the fine sand we used as a result of the inefficiencies of the bucket wheel as a means of sand production"* explains Dave. *"This was an area of considerable cost for us which is why we began talking to CDE about improving our process."*

The new CDE washing plant employs an Evowash 71 system which has been employed on many similar applications throughout the world. *"I visited Ireland and the UK and saw the Evowash in action on many similar crushed rock applications"* says Dave Kendall. *"These visits backed up the claims made by CDE regarding the capability of the Evowash to eliminate the loss of quality sand during the sand washing phase. This offered us an opportunity to greatly increase the efficiency of our Sterkspuit operation and the new washing plant now installed is delivering on this."*

As a result of the increased capability to recover the fine sand material





*"We believe that the introduction of the Aquacycle to our operations is a first for sand and aggregate producers in South Africa" says Dave Kendall. "With the environmental benefits and health and safety improvements that the Aquacycle offers I am sure it will be adopted by others in the not too distant future."*

Wash water containing the minus 75 micron material from the Evowash first enters the Aquacycle thickener via a de-aeration chamber located on the side of the thickener tank. The location of the waste discharge point at the top of the Evowash allows for a gravity feed of this material eliminating the requirement for the additional sumps and pumps that can be required with other systems.

In the de-aeration chamber the material is dosed with a small amount of flocculent which is prepared in the FlocStation poly dosing plant. Material is then delivered to the centre of the circular Aquacycle tank before being released. The flocculent that has been mixed with the waste material forces the minus 75 micron particles to bind together and their cumulative weight allows these particles to fall to the bottom of the tank where a set of rakes rotate to maintain an even consistency within the settled sludge.

The clean water overflows an integrated weir at the edge of the Aquacycle thickener and is then sent

*secondly, the space required to accommodate our settling ponds has been massively reduced."*

The settling ponds at Sterksput previously required a substantial area due to the lack of water recycling coupled with the loss of large volumes of material to the ponds. The reduction in area required following the introduction of the Aquacycle gives NPC additional security in relation to the safe storage of waste material from their operations.

*"Our settling ponds are located adjacent to a river so the introduction of the Aquacycle thickener is an example of our focus on environmental protection and sustainable production" says Dave Kendall.*

#### **Advancements in washing**

This new washing plant represents the first installation for CDE in South Africa and the company hopes to secure further installations as a result of its success. *"We have spent a lot of time in South Africa recently and we know that we can offer operators greatly increased efficiencies based on the existing washing plants we have seen" explains Des Crawford. "The plant at Sterksput gives us a reference where our claims regarding plant performance are proven beyond question."*

following introduction of the Evowash system, NPC have seen the quality of the washed sand improve and they have been able to dramatically reduce the need to purchase natural fine sand from external suppliers as the washed sand product now meets the specifications they require for asphalt mixes.

*"The move towards self sufficiency that this new plant gives us makes a huge difference to our operations" explains Dave. "Higher quality sand, increased volumes of sand and the effective elimination of the costs of buying in natural fine sand will help us deliver significant efficiency improvements in the months and years to come."*

#### **Water recycling system**

Following the sand washing phase the waste water from the Evowash is delivered to an Aquacycle thickener to allow for the recycling of 90% of the water used in the washing process.

The Aquacycle has been extensively used in recent years on many CDE installations and offers operators a means of reducing the environmental impact of their operations while also having other advantages such as increased health and safety on site and a greatly reduced amount of space required to accommodate settling ponds.



to the Aquastore collection tank for recirculation to the washing plant. When the sludge reaches an appropriate density the rakes report back to the PLC control panel which activates the sludge pump. The settled sludge is then delivered to nearby settling ponds.

*"The advantages of the Aquacycle thickener to our operation is twofold" says Dave Kendall. "Firstly we have significantly reduced our use of natural resources through the water recycling capability we now have and*

*This view is supported by Dave Kendall who says "The CDE washing plant represents a significant improvement on the washing plants in operation throughout South Africa and with the efficiency and productivity benefits we are enjoying I am sure there will be many more to come."*



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# Hewitt Robins supply four-bearing screens to the Middle East



**Hewitt Robins International Ltd have recently supplied two off QV-14 2.2m wide x 7.8m long Triple Deck Screens to one of the leading quarry operators in the middle east.**

These four bearing machines are handling 500tph of minus 100mm limestone and the material is being separated at 80mm on the top deck, 60mm on the middle deck and 40mm on the bottom. This new project allows the customer to supply suitable aggregates for all their international needs.

The screens are fitted with a Grease Lubricated Quad-V14 Vibrator unit which consists of 2-QV vibrator pods incorporating 2 off 140mm bearings giving the customer increased bearing life. The two QV Pods are coupled together using a cardan shaft through the centre of the machine, which allows there to be additional access between the decks for easier maintenance.

The screens are also supplied with rubber curtains incorporated into the back-plates to allow the maintenance

team to change the decks from the rear as well as the front.

The sites Maintenance Manager commented - "These screens were designed, manufactured and commissioned in a very short timescale which was very important for us due to some new orders from overseas. These two screens now allow us to supply our customers with a different size product at even higher capacity rates than we first expected. The machines were such a success we have placed a repeat order for identical machines, which are expected to be with us shortly.

We know that Hewitt Robins machinery is built to last as we also have some Extra Heavy Duty Grizzly Feeders on-site which are over 20 years old and are still handling 3000tph of -2m<sup>3</sup> lumps. We have always been impressed over the years with their quality and after-sales service"



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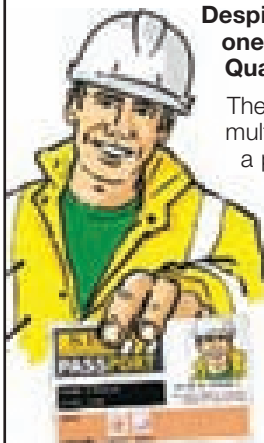
## Don't forget your passport!

**Despite a reduction in accident rates over recent years, the quarrying industry still remains one of the most dangerous. Mentor offer the nationally recognised Safety Passport Qualification endorsed by the industry which all contractors are expected to hold.**

The course forms part of the Safety Pass Alliance's Safety Passport scheme, extended across multiple sectors in an effort to reduce the number of accidents. Those completing the course receive a plastic photo card, a lot like a UK Driving Licence, which is valid for three years, which can be shown when arriving on site. By showing their passport the contractor can demonstrate their awareness of HSE initiatives within health, safety and environmental awareness relevant to the extractive and mineral processing industry, enabling them to commence with the job in hand.

In support of the scheme, Mentor is offering a free downloadable safety poster for your weighbridge area or office to remind those entering onto the site to show their cards should this be a site requirement.

Mentor currently has Quarry Safety Passport courses running at various training locations throughout the UK but they can also be delivered at customer sites. Open course dates are available on the Mentor website.



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## New 992K High-Lift offers greater truck-loading flexibility

The new Cat® 992K High-Lift provides an added choice for quarries, mines and high-volume earthmoving contractors using large wheel loaders to load haul trucks. Having a full 24 inches (610 mm) more dump clearance than its standard-lift counterpart, the 992K High-Lift efficiently and productively loads 100- and 150-ton (91- and 136-t) capacity trucks such as the Cat 777F and 785C, including 100-ton (91-t) units with sideboards and fleets running mixed sizes of trucks. In some applications, this added lift height allows using the 992K rather than a larger loader.

The 992K High-Lift has a rated payload capacity of 21 tons (19.1 t). Assuming 100 percent bucket-fill factors, maximum material densities for available buckets, smallest to largest, are 3,000, 2,800 and 2,625 pounds per cubic yard (1 780, 1 660 and 1 560 kg/m³). Hinge-pin height at full lift is 24 feet 9 inches (7 545 mm). Equipped with a 14-cubic yard (10.7 m³) bucket, dump clearance under the teeth (at full height and 45-degree discharge angle) is 17 feet 2 inches (5 232 mm); equipped with 15- and 16-cubic yard (11.5- and 12.2-m³) buckets, dump clearances are 16 feet 11 inches (5 156 mm) and 16 feet 9

inches (5 105 mm), respectively.

At 21 tons (19.1 t), the 992K High-Lift is swinging less weight than its predecessor, the 992G High Lift. Front linkage design changes have reduced rated payload slightly but have improved pin casting and linkage durability significantly. For applications requiring greater payload capacity, the standard linkage 992K has a rating of 24 tons (21.7 t), and for applications requiring greater production, Caterpillar offers the larger 993K with a payload rating of 27.5 tons (24.9 t) for the High Lift and 30 tons (27.2 t) for the Standard Lift.

The design of the 992K High-Lift fabricated single boom incorporates castings in high-stress areas for long-life durability. For easier maintenance management, the high-lift system shares a significant number of parts with the standard-lift 992K, including lift and tilt cylinders, position sensor and harness, hydraulic lines and buckets.

### K Series™ features aid productivity, maintenance, safety

Additionally, the 992K High-Lift features many improvements introduced with the standard lift model. Boosting productivity is Positive Flow Control (PFC)

hydraulics—the next generation of load-sensing hydraulics. Additional sensors at the pumps provide enhanced responsiveness that the operator can feel and use.


The 992K also offers innovative solutions to ease maintenance and boost reliability. The Cat exclusive sleeve bearing pins eliminate the need for daily greasing of the front linkage, and the next generation modular radiator (NGMR) has copper fins for superior heat exchange capabilities. The design minimizes space required and allows enhanced sight lines to the rear. Centralized service centres and ground level access points including the bumper service centre and optional fluid service centre also ease maintenance and reduce exposure to falls.

The loader design also emphasizes operator safety and comfort. A trainer seat is standard equipment. The optional rear-view camera increases the view behind the machine as do optional, heated rear-view mirrors.

For more information about the 992K High-Lift, contact the local Cat dealer or go to [www.cat.com](http://www.cat.com)

 [www.hub-4.com/directory/7230](http://www.hub-4.com/directory/7230)





## Linatex® Impact Bars cushion the flow

**Linatex® rubber, part of the Weir Minerals Division product portfolio, a division of The Weir Group plc, has recently been used to resolve industrial wear issues within a quarry process line for Chap Quarries in the North East of Scotland.**

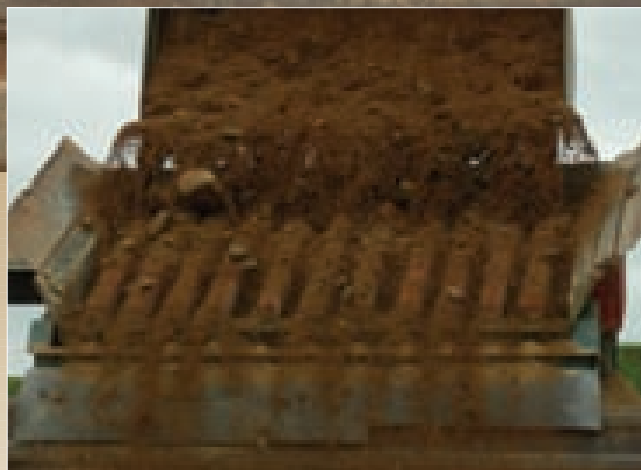
Chap Quarries are the foremost producers of high quality washed sand and aggregates in the North East of Scotland. Operating from their Park Quarry site since 1986, they distribute across the whole of Aberdeenshire and beyond for the construction, utilities, precast, asphalt and ready mixed concrete industries.

Mineral processing at Park Quarry incorporates the latest industry technology for sizing, screening and washing of sand and aggregate products with a wet production capability in excess of 150 tonnes per hour.

Over 12 months ago, our engineers were called to the processing plant to review disconcerting wear levels on the impact bars on a primary hopper. Fitted in order to screen the oversize material into a reject pile, the original impact bars were proving ineffective and deteriorating rapidly, with large chunks of rubber falling off. After an initial survey, Chap Quarries who have 'first hand' experience of the wear qualities of Linatex® rubber, had no hesitation in acting on the recommendation of our engineers to fit Linard® HD60 premium natural rubber impact bars as a replacement.

The replacement Linard® HD60 impact bars have since handled over 450,000 tonnes in the past 24 months, required no maintenance and have doubled the life of the old bars. Importantly these new impact bars have retained their edges longer, effectively ensuring no oversize material has been allowed into the process stream. Additionally, the new impact bars have maintained a quiet operation since noise levels have been significantly reduced, which is a key criteria in future quarry planning applications, especially when there are houses nearby.

*"It has been a very successful solution to resolve a consistent wear issue within the process line,"* Vince Kirk - Director of Chap Quarries, commented;



Since the success of the original installation, Weir Minerals have been approached to review a second grizzly at the end of a long overland conveyor with a view to again replacing existing steel bars with high performing Linard® HD60 impact bars.

Linard® HD60 is part of the Linard® HD range of products which are natural synthetic rubber blends designed specifically to exhibit exceptional toughness without compromising natural elasticity. Linard® HD products are particularly suited to high impact applications or the handling of coarse aggregates; where cutting and gouging play a major part in the abrasion process.

Linard® HD60 is ideally suited for the aqueous applications involving aggregates, in which sliding abrasion is the major concern. In applications such as primary screen decks and heavy duty transfer chutes, where cutting and slashing by sharp edged heavy particles is the leading cause of abrasion, Linard® HDS and Linard HD70 are recommended.

The Linard® HD range offers superior strength and resilience for severe abrasion and provides exceptional resistance to chunking and gouging. Ideally suited for dry or damp applications where there is heavy impact, the Linard® HD range also provides good noise and vibration dampening properties.

LINATEX and LINARD are registered trademarks worldwide of Linatex Limited (UK), a Weir Group PLC company



# Precia-Molen supply efficient and reliable weighing for Lafarge Dowlow Quarry

Dowlow Quarry lies in the heart of the Derbyshire Peak district and is owned and operated by Lafarge Aggregates being their second most important site in the UK. Producing over 1.5 million tonnes of limestone per annum the site has some considerable history, originally dating back to 1899.

Some four months ago Precia-Molen engineers were asked to review an underperforming belt weigher on the aggregate blending line and supply a replacement that would ensure reliability and accuracy of weight measurement.

Consequently, Precia-Molen engineers recommended a FX VA PA 1000 belt weigher. Used in conjunction with the Precia-Molen I400 belt weigher indicator this provides reliable control and an accurate weight of material delivered to a lorry load out point for volumetrically blended materials.

In principle when a vehicle arrives on site it will visit the weighbridge with the gross weight recorded; the vehicle then proceeds to the load-out point for collection of the material blend to be loaded. As it is illegal for a vehicle to leave the site over their gross laden weight limit the Precia-Molen FX VA PA 1000 belt weigher will prevent the risk of vehicle overloading; thus eliminating additional vehicle movement on site to remove excess weight from the vehicle which would result in further visits to the weighbridge.

The benefits are clearly defined as accurate and efficient weighing with the Precia-Molen weighing technology will not only extend the life of the weighbridge, but will reduce the risk of accidents and will increase safety on a busy site underlining Lafarge's active approach to safety.

The Precia-Molen FX VA PA 1000 belt weigher therefore provides a reliable and good degree of accuracy of weight measurement processing material ranging in size from 4/6/10/14/20mm to 50mm, providing specific blends of custom blended material for Lafarge Aggregates' customers. Each blend of material is selected from a customer base recipe and each material selected is delivered from a storage bunker volumetrically, via volumetric extractor and gate on to a conveyor belt. The vehicle to be loaded is then positioned under the outlet of the belt conveyor. Once in position the control room operator selects the weight and blend of material to be delivered to the vehicle and the filling commences.

The Control room operator also has the added benefit of observing via the Precia-Molen I400 controller the weight of material being delivered by means of a weight pulse count that measures every tonne of material passing over the scale into the vehicle.



When filling is near completion, (signalled by the pulse count and the total weight indication), a pre-set point triggers the system to stop filling and automatically close the bunker feed gates preventing further material being discharged onto the conveyor belt.

During discharge, the I400 Indicator also provides an indication of the average and total weight that has been delivered. This signal provides the final indication of weight delivered to the vehicle. On completion of all the belt discharged material into the vehicle the belt scale provides a total weight indication. The control room once satisfied the weight is within legal limits then instructs the driver to return to the weighbridge, where he will receive a copy of the tare, gross and net weight.

The installation of the new Precia-Molen FX VA PA 1000 belt weigher and I400 belt weigher has consistently achieved accuracies of 0.7% , confirmed by the use of a known weight of material recorded on the Precia-Molen I400 belt scale indicator and the recorded weighbridge gross weight record.

**Richard Scott - Quarry Manager, commented, "The service from Precia Molen has been very comprehensive from initial recommendations right through to installation and commissioning."**



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The main theme of China International Municipal Equipment & Technology Expo 2011



**Date**

March 30th – April 1st, 2011

**Venue**

China Import and Export Fair Pazhou complex

**Concurrent Event**

China Municipal Engineering Association Annual Conference



CME2011

# China International Construction Machinery Exhibition (CME2011)

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## 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.



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## RLI "Shaker" Rotary Level Indicator

4B Braime have launched a new type of rotary level indicator, the RLI "Shaker". A rotary paddle switch, to detect high / low levels of bulk granular solids in bins, tanks and silos, the RLI "Shaker" can also be used to detect plug conditions in spouts, where long life and failsafe detection is required.

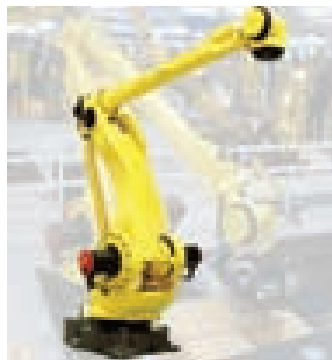


Utilizing a unique stepper motor drive, the RLI "Shaker" rotates clockwise, then counter-clockwise and then shakes to shed any excess material build up. If the paddle rotation is impeded at any time by the bulk material then the electronic circuit provides a signal for level indication or control.

The RLI "Shaker" uses fewer mechanical parts compared with standard rotary level indicators. No gearbox or clutch is required as the stepper motor drive is directly coupled to the output shaft and is practically indestructible and cannot be damaged by forced or backwards rotation. Also, an adjustable torque control allows one unit to cover many different densities of material, and provides easy on site calibration without having to change paddles. The RLI Shaker is ATEX certified.



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## New compact FANUC fulfils market demand fast!

Robotics system integrator and FANUC strategic partner, Pacepacker Services, believes that the latest addition to FANUC's M-410i range of palletising robots, the M-410iB/140H, will meet demand

for a super fast yet compact robot which is often required for those wanting to increase output in limited spaces.

As a system integrator who has designed and installed over 400 bag and box palletising solutions for a wide range of applications, Pacepacker, are well placed to predict a high level of interest for this robot, which can perform cycles in less than two seconds, has a payload of 140kg, and is designed with a slimmer arm and wrist making it the most compact in the M-410i range. "The new arm design makes the robot more compact and because of its speed it is able to keep up with many of the Form, Fill & Seal systems used in today's production environments," comments Pacepacker Business Development Manager, Paul Wilkinson.

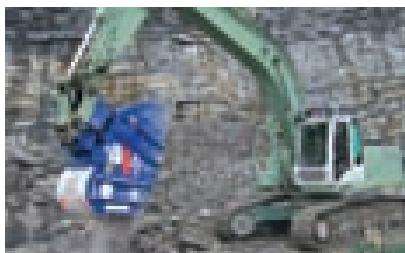
The M-410iB/140H is the fastest in its class and well suited for palletising multiple products onto multiple pallets using barcode scanning or vision systems if needed. It will also enable Pacepacker to continue its philosophy of providing its customers with uncomplicated competitive solutions: "Design simplicity is how we approach all projects and is key to a successful installation. This new robot enables us to offer a single robot palletising system capable of packing multiple products in different variations on multiple pallets. This not only negates the need for multiple robots, which reduces cost, but can provide our clients with a flexible optimal solution that can be upgraded as their business grows," enthuses Paul.

Over a fifteen year long history with FANUC, Pacepacker has been instrumental in increasing the penetration of robotics into many industry sectors. Through Pacepacker's adoption of the latest technologies, the full benefit of automation systems can be realised by those who have previously not considered it a viable option.



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## Riverside Machinery launch range of crushing buckets from LST Attachments

**Riverside Machinery has unveiled a range of crusher buckets designed to work with any excavator available in the marketplace. There are three models - the CB160, CB260 and CB410.**

The CB410 can crush up to 45m<sup>3</sup> of material in an hour, the CB260 35m<sup>3</sup> and the CB60 25m<sup>3</sup>.

### Superior Crushing Action:

Powered by the excavator's standard hydraulic breaker circuit, the LST crusher bucket uses a fixed jaw and a hydraulically driven moving jaw. The gap between the two jaws can be set with shims to determine the size of the finished material.

The crushing action is achieved by the moving jaw being cycled in and out using an eccentric shaft. This shaft is equipped with flywheels at each end and rotated by a belt from the hydraulic motor.

### Total Versatility:

The CB160 is designed to work with 8 - 14 Tonne Excavators and has a capacity 0.5m<sup>3</sup>. The CB260 is designed to work with 18 - 25 Tonne Excavators and has a capacity of 0.6m<sup>3</sup>. The CB410 is designed to work with 24 - 47 Tonne Excavators and has a capacity of 0.9m<sup>3</sup>.

The LST crushing bucket is also ideally suited to work on sites where normally a licence is required for a mobile crusher

Crusher buckets are designed to reduce site waste, brick, demolition rubble or rock into a usable material, eliminating haulage and disposal costs. The LST range of crusher buckets has a closed side setting of 20mm - 120mm

### Heavy Duty Engineering:

LST Crushing Buckets are manufactured wholly in Germany to a very high level of engineering offering you the customer robust performance and low running costs.



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## Another 'Compact Classic' from Anaconda

**Anaconda Equipment International, the Northern Ireland based manufacturer of compact screening and conveying equipment, has just announced the launch of the SR410 Tracked Screener. The SR410 has been designed to satisfy the needs of customers specifically in the sand & gravel aggregate and coal industries, although it can be used in a wide variety of other applications.**

In June 2010, Anaconda launched the DF410, a compact 'scalping' screen that has proved a tremendous success for the company. The SR410 is a more conventional screener, commonly found in applications where fine screening of materials is required. Commenting on the latest in the range of Anaconda products, Production Director, Martin Quinn, is pleased with the quality of the finished product:

*"The SR410 is 12 months in the making from initial concept, through design, build and finally testing. This machine has been put together with the help of several key dealers who form such an integral part of the team here at Anaconda. Testing has gone very well and the order book has started to fill up a little which is the best you can hope for in any new product launch."*

The SR410 has once again been designed by Anaconda with focus on quality, price and containerisation - the same focus that goes into all Anaconda products. Keeping the shipping cost down has proved to be a real bonus for dealers and end users, particularly those outside of Europe. Mr Quinn added:

*"The screener can be decommissioned and transported with ease on a low loader or shipped worldwide as it will track in and out of a 40ft container without any breakdown. This cost saving is passed onto the end user which, in some cases, can result in a £5000+ saving."*

Options on the SR410 include belt feed or direct feed of material to the screen box, wheel or tracked mounted chassis, a variety of screening media, radio remote control, and either tipping or vibrating grid. Hydraulic raising and lowering of the conveyors and screen box allows for fast and easy access to the screen box for changing meshes. The unit comes with either a Deutz or JCB engine.

Anaconda Equipment distributes all products through a reputable and well placed dealer network throughout USA, Australia, Africa, Middle East and Europe. With more and more products landing in locations all around the globe, the Anaconda brand is steadily building and the reputation for quality, affordable compact screening and conveying equipment is certainly gaining momentum.



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## Mogensen in the recycling industry

**Most recycling plants find it essential to use vibratory equipment somewhere in the process to loosen, carry out a preliminary separation on, spread and/or size the incoming materials.** Examples of processes, which would not be able to operate effectively without this sort of assistance, include magnetic, eddy current, ballistic, optical-electronic and air separation, all of which are to be found in the recycling industry. Mogensen, as a specialist manufacturer of vibratory screens, feeders, conveyors, Sizers and the open-ended, non-clogging grizzlies known as Divergators™, has experienced a steady increase in business from the recycling sector over the past decade. This development was recently confirmed at this year's RWM show, which was marked by an encouraging improvement in the volume and quality of enquiries compared with the two previous exhibitions: even the equipment on the Mogensen stand was sold during the show!

Within the recycling sector the processing of waste materials from the construction industry has shown the most marked increase in recent years. This includes not only the dewatering and sizing of sand and recycled aggregates, the sizing of wood products and glass but also, notably, the screening of waste plasterboard following upon the banning in the EU of consigning such material to landfill.



Mogensen has supplied numerous machines for processing shredded plasterboard, ranging from small single deck screens to 3-metre wide, 5-deck Mogensen Sizer/spreader feeder combinations. These units have been used to perform simple duties such as the removal of paper and production of coarse grade recycled gypsum, and also the more demanding duties such as the production of multiple fine-grade fractions compliant with British Standard PAS109:2008. Mogensen equipment is used, for example, to process shredded plaster board at rates of up to 80TPH performing separations down to below 1mm.

When it is considered that more than 500,000 tonnes of scrap plasterboard are already recycled annually in the UK alone, the environmental benefit is very clear, especially as clean, recycled board is about 97% re-usable in the manufacture of new plasterboard, cement manufacture, the production of bricks and building blocks for internal use and for soil improvement.



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# MOBILE EQUIPMENT FOCUS



Metso Minerals Ltd Parkfield Road Rugby, CV21 1QJ Telephone: 01788 532100

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

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## Terex® Mobile Processing Equipment (MPE) launch NEW Terex® Finlay C-1550 Tracked Mobile Cone Crusher.



The hydraulically adjustable feed conveyor allows the machine to be operated using either the innovative prescreen system or if required by feeding directly into the cone.

### Key Features:

- Terex® 1300 Cone Crusher
- Pre-screen system for fines removal
- Fully Hydraulic CSS Adjustment
- Direct Drive
- Hydraulic Tramp Relief System
- Automatic metal detection and automated purge system
- 8m<sup>3</sup> (10.4yd<sup>3</sup>) hopper capacity as standard

**The Terex® Finlay C-1550 is the latest addition to the Terex® MPE range of tracked mobile cone crusher range. The Terex® Finlay C-1550 is the largest cone crusher launched to date by Terex® MPE and joins the successful and proven Terex® Finlay C-1540 & C-1540RS models.**

The Terex® Finlay C-1550 incorporates the Terex® 1300 cone crusher driven by direct drive. The machine features an innovative optional pre-screen module with a single deck 2.45m x 1.52m (8' x 5') screen for removal of fines from the feed material. The integrated chute system, below the prescreen, allows the screened fines material to be discharged from the machine using the optional by-pass conveyor or reintroduced onto the main product conveyor. Both methods improve the plant throughput capacity, product flexibility and liner wear reduction. The cone features variable speed drive, hydraulic tramp relief system and ability to change closed side setting while crushing. The large hopper/feeder has an automated metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants from the feed belt.



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# MATERIAL PROCESSING SOLUTIONS

The Terex® Finlay 694+ tracked screen features the largest screen box in its class. The NEW triple deck screen configuration provides three full sized 20' x 5' decks giving a combined screening area of 300 square feet. The screenbox features quick wedge tensioning on top and middle decks and hydraulic tensioning system on the bottom deck to minimize mesh change times. All 4 discharge conveyors are hydraulically operated for fast setup and transport ready times. The 4th product 'oversize plus' conveyor has variable tilt and side slew which offers multiple discharge points for recirculation of the oversize product with varying sizes and types of crushers in a closed circuit crushing spread.

## Features:

- ▶ The all new triple deck 20' x 5' screen box is largest in class and has all round catwalk access.
- ▶ New screen box has quick wedge tensioning on top and middle deck, bottom deck hydraulic tensioning system and access holes to reduce time required for mesh change and set up.
- ▶ Bottom deck first mesh panel has 5° incline for improved capacity.
- ▶ Hydraulically adjustable "Oversize plus" conveyor has variable tilt and side slew to accurately discharge materials for recirculation to crushers and for stockpiling.



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# The Metso Lokotrack/Lokolink system

**The Metso Lokotrack/Lokolink system is now firmly established as an industry benchmark for an “in-pit crushing” and transfer conveying system, eliminating the need to transport material using trucks at any stage between the face and final product bins.**

Worldwide Metso has sold well over 5,000 tracked crushing plants since it introduced the concept in the mid 1980's. The adoption of a Lokotrack/Lokolink conveyor system at a quarry in the UK has delivered savings of over 50% compared to the previous blast and haul methods.

The proven Lokotrack series features an extensive range of track-mounted crushing plants designed for quarrying and in-pit crushing applications. These plants are built around robust, high capacity crushers, feeders and screens, enabling them to process practically any rock or ore. Replacing the conventional dump truck fleet with a Lokotrack LT series primary crushing plant followed by a belt conveying system or with a complete mobile in-pit crushing plant, brings significant savings in production costs. It also significantly reduces the load on the environment. Indeed the large machines in the range can be configured to process with electrical mains power and move using diesel engine power. View Lokotrack animation:

[http://www.metso.com/miningandconstruction/mm\\_crush.nsf/WeBWID/WTB-100112-2256F-E7688?OpenDocument](http://www.metso.com/miningandconstruction/mm_crush.nsf/WeBWID/WTB-100112-2256F-E7688?OpenDocument)

The 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, reduces dust from wheel movements, significantly reduces exhaust gas emissions and improves work safety.

Metso also offers a complete range of tracked jaw, cone and impact crushers, from our bestselling Lokotrack LT Series allowing customers to choose the most suitable type of crusher to be applied for different rock type application. Each unit has the IC Automation package to control both process and engine management, this provides reliability, high production and performance. The common IC platform also enables backup with a world-wide service and support network.

Recent developments include the option of onboard screening after the crusher with closed circuit and product conveyors. Addition of the LT 7150 VSI to the range. “Wireless link” 2 & 3 stage units eliminating potential problems with cables on the quarry floor.”

Today there are new exciting products being designed and tested to meet the new challenges of the Industry which will take Lokotrack and our customers to the next level.

Metso Minerals, part of Metso Corporation, is a global market leader in the rock and minerals processing industry. The company focuses on the supply and service of processes and related equipment. Metso Minerals provide sales and service units; dealers and distributors in 150 countries and more than 40 production units worldwide.



**Metso Minerals Ltd** Parkfield Road Rugby. CV21 1QJ  
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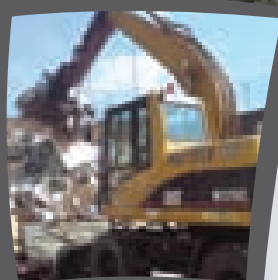
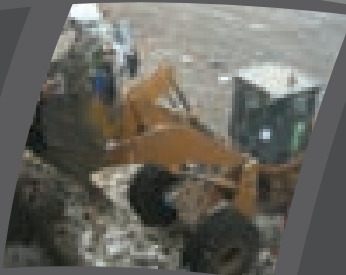
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# Complete Utilities wash with DUO

**January saw DUO (Europe) plc complete the installation of the award winning Powerscreen Aggwash and DUO Water Treatment plant for Complete Utilities, Gloucestershire, who required a processing solution for their utilities spoil. The deal was agreed towards the end of 2010 following successful trials of Complete Utilities clay bound feed material at the site of another of DUO's Aggwash and water treatment installations.**

## First Time Washers

The Gloucestershire based firm, who provide excavation, backfilling and reinstatement services to the utilities industry, will be venturing into washing for the first time having previously dry screened their material. The decision to begin washing was made because the required standard of product is only available for six months of the year due to the weather when dry screening, according to Complete Utilities Managing Director, Steve Chaplin. Achieving a high specification product is fundamental to Complete Utilities' business as they are not only the material producer but also the end-user.

Complete Utilities offer services that help utilities providers comply with environmental policy and recycling targets set by WRAP and other governing bodies. They offer a process through which utilities companies can reduce waste to landfill and ensure its reuse. This is an area in which significant progress towards recycling targets can be

achieved as this waste stream is one of the largest for utilities companies, thus making Complete Utilities a one-stop-shop for digging, backfilling and reinstatement.

## Agreeing the Deal

Prior to agreeing the deal, Steve Chaplin also viewed the offerings of DUO's competitors but felt that they did not offer the same high standards or level of commitment to the project. He commented that "DUO is the only one in the market for what I want."

After viewing other DUO plants and having tracked the Aggwash since its conception, DUO is the obvious choice for Complete Utilities transition to washing. Steve Chaplin stated that "the deal to purchase was down to the commitment from DUO with the backing, support and the want to see this machine, as the first of its kind, being put together and made to work". He added that "the installation is the first of many to come."

## The Installation

The two main components of the installation are the Powerscreen Aggwash, which was voted winner of the Series Innovation Category at the 2010 World Demolition Awards held in Amsterdam last November, and the DUO Water Treatment Plant.

The Aggwash provides for the first time rinsing, screening, scrubbing and sand washing capabilities on a single transportable chassis. Complete Utilities will be running the Aggwash at 50-60 tph to process their material for backfilling and remediation purposes.

DUO's water treatment solution perfectly complements the Aggwash, eliminating silt

and water being dispatched to a lagoon. The system is of compact size relative to its production levels which was a necessity in the design of the installation due to space restrictions on-site. This closed circuit system produces a very manageable end product, the low moisture content of which is vital to Complete Utilities in ensuring it is workable for blending as clean soils as well as any surplus being transportable to, and will be accepted by, landfill and tipping sites.

The water treatment plant is supported by a sludge tank, clarified water tank and a thickener system. Due to the height restrictions on-site a low level thickener was selected, the size of the site imposed its own restrictions which required careful planning from DUO to minimize the footprint of the installation.

## Working Together

Throughout the project both companies have worked together to ensure its success. When asked about the relationship between Complete Utilities and DUO Steve commented, "Working with DUO is a very pleasant experience, they do what they say and I'd recommend it to anybody." He added "it will be demonstrated here and anybody that wants to see it work will be welcome."

DUO Sales Manager, Luke Talbot commented that he was "delighted with the installation and was sure the project would be a great success." Luke added "It's great to be able to offer such a comprehensive mobile system and we are looking forward to inviting guests to visit this site in the coming weeks and months."



**DUO (Europe) plc**, 4, Rye Hill Office Park, Birmingham Road, Allesley, Coventry, Warwickshire, CV5 9AB, UK  
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**www.duoplac.com**

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## JPE Aggregates to host demonstration days



**JPE Aggregates are to host a series of demonstration day events at their site in Birmingham during February. The events are being organised following the installation of a new modular washing plant for construction and demolition waste material purchased from CDE Global in late 2010.**

The new plant includes the M2500 mobile washing plant, AggMax attrition system and AquaCycle thickener and has a capacity of 100 tons per hour with the capability to produce 70 tonnes per hour of single washed sand.

*"We are hosting these demonstration day events to show our customers the quality of recycled materials that this new plant is able to produce" explains Steven Birch, Managing Director of JPE Aggregates. "The specification of these materials has greatly increased the range of projects to which we can supply material."*

Representatives from CDE will also be present at the series of demonstration days and visitors will include construction and demolition waste processors from throughout the UK as well as a number of international visitors. *"The new washing plant set up at JPE Aggregates has attracted a lot of interest from UK processors as well as from operators in many European markets" explains Terry Ashby, Director of CDE operations in the UK market. "A number of C&D waste processors from some major European markets have confirmed they will be visiting and we will also be welcoming many of our international distributors to JPE."*

Visitors will witness material being processed through the M2500 mobile washing plant which includes feeding, screening and sand washing on a compact chassis. The sand washing element is achieved through the integrated EvoWash sand plant and an integrated 9m conveyor stockpiles this material.

The aggregate material is delivered from the M2500 to an AggMax attrition system which includes a RotoMax RX80 Logwasher and double deck rinsing screen. Once the aggregate materials have been scrubbed they are then given a final rinse on the double deck screen and classified into the required aggregate sizes. This stage also allows for any -5mm material to be recovered from the recycled aggregates and returned to the EvoWash to ensure maximum sand production.

As is the case with many construction and demolition waste processors the issue of space available on site to accommodate the new washing plant was critical for JPE Aggregates. This has been addressed on the new plant with the inclusion of the AquaCycle thickener which allows for recycling of 90% of the water used in the washing process.

Waste water from the plant containing the minus 63 micron material is delivered to the AquaCycle thickener where the dosing of polyelectrolyte forces the sludge to settle and the recycled water to be returned to the washing plant. The sludge is subsequently pumped from the thickener and the specification of the AquaCycle system greatly reduces the volume of waste material to be handled by JPE Aggregates while also minimising the use of fresh water.

The demonstration events will be hosted during the week beginning 28th February and those interested in visiting the site can register for further information at <http://www.cdeglobal.com/section/Eventscalendar>

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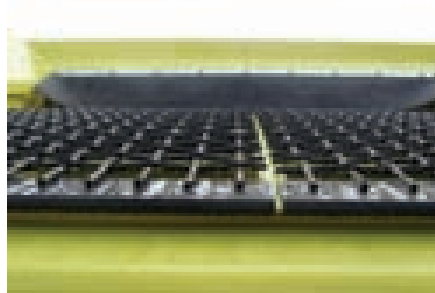
or to service the demand for Hire. The 'easi-screen' can be transported on a suitable plant trailer and towed behind a 4x4 or large van.

The machine will disengage from its trailer without the need for additional lifting equipment.

The 1830 x 1830 double deck screen is capable of producing oversize and fines at a rate of 40 tonnes per hour, depending on mesh size.

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# BedRock Announces: AggFlow with Terex Finlay Track-Mounted Equipment

BedRock Software, LLC (BedRock) is pleased to announce the addition of Terex Finlay Track-Mounted (mobile) equipment to its AggFlow simulation program. BedRock, working with Terex Finlay engineers has developed and introduced the complete Terex Finlay line of track mounted crushing and screening equipment. "The addition of Terex Finlay mobile equipment to AggFlow, along with our recent expansion in the wash and water simulation capabilities of the program, are important steps for the benefit of our customers and the industry globally" said Robert Teller, Managing Partner of BedRock.

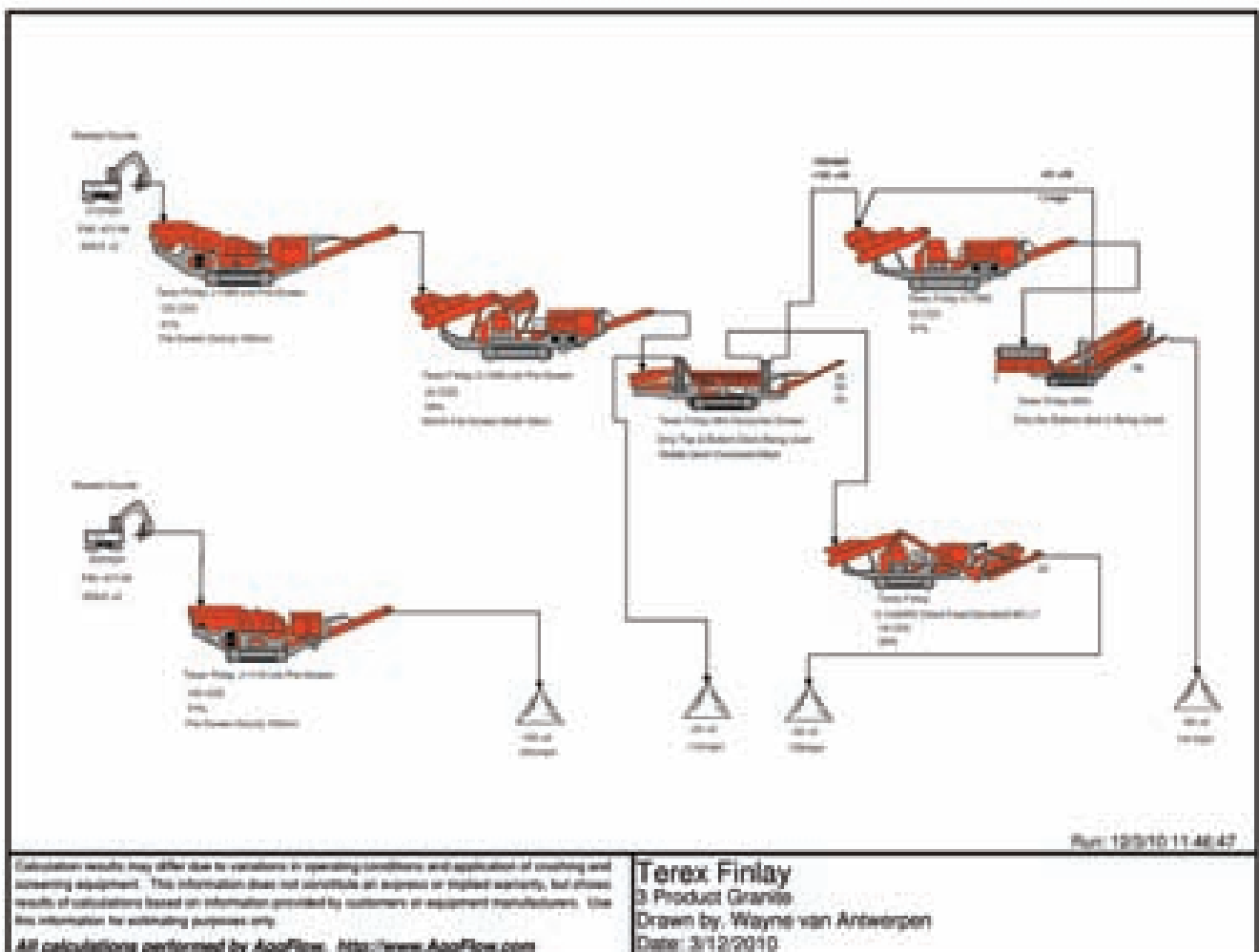
AggFlow is used by aggregate producers, equipment manufacturers and dealers in more than 90 countries to simulate aggregate and mining operations. AggFlow users can calculate mass aggregate and mass water balances flowing through a plant simulation using both stationary and mobile equipment. Thus optimizing and maximizing production of desired products.

Wayne Van Antwerpen, Terex Finlay's Product Support & Training Manager summarized the development by saying "We always need to recommend the best possible plant layout for our dealers and customers. AggFlow helps us

achieve this. AggFlow is a valuable tool that is fast and easy to use. For many years the program has played a key role in our business. Now, the inclusion of our mobile equipment range in AggFlow will benefit our dealers and customers time and again with accurate machine layouts and calculations."

AggFlow simulations help improve profitability by identifying inefficiencies and bottlenecks; by accurately assessing the impact of proposed changes or new equipment before they are made; and by reducing plant down-time and production errors. The program is popular because it provides quick access to technical data; the ability to conduct unlimited "what-if?" scenarios, accurate unbiased answers and it is easy to use.

Users can select from the pre-populated equipment data library or install their own equipment models in the program using the generic equipment application. Currently, the program provides calculations for more than 4,000 models of aggregate crushing, screening and washing equipment. BedRock is constantly adding to the data library and will add equipment upon request. For more detailed information visit AggFlow at: [www.aggflow.com](http://www.aggflow.com)







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# Riverside Machinery Ltd launches the Optical Belt Scale System and Sensor Track.

The Optical Belt Scale System for discharge conveyors measures the volume of material being discharged from a conveyor belt using electro-optical technology and then transmits these measurements directly to a hand-held computer unit.



The system operates without direct contact with the material being conveyed, whilst being insensitive to any dust and vibrations created ensuring no wear to the system.

Measurement is possible at any conveyor gradient, even if the machine or conveyor changes its angle or moves during operation the system does not need to be recalibrated.

The measurements are taken automatically and stored; these can then be sent via the Bluetooth wireless transmission.

This system can be used in a variety of applications:

## Construction trade and building material industry

- mobile and stationary conveyor belts
- crushing and screening machines
- for very short, foldable, ribbed, Chevron and pivoting belts
- for grit, sand, cement, gravel, stone



## Timber industry

- mobile and stationary wood shredders
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- trommel screens
- production of wood chips
- biomass processing

## Waste industry

- waste processing
- recycling plants
- waste sorting plants

As an optional extra this system can be fitted with Sensor Track. The Optical Belt Scale is fitted with a GPS device which keeps track of exactly where your equipment is located and notifies you of any movement.

**For further information: Riverside Machinery Ltd, Unit J, Riverside Industrial Estate, Atherstone Street, Fazeley, Tamworth, B78 3RW Tel: +44 (0) 800 689 9024. Fax: +44(0) 800 471 5099. [www.riverside-machinery.com](http://www.riverside-machinery.com)**



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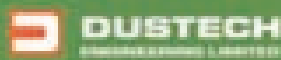
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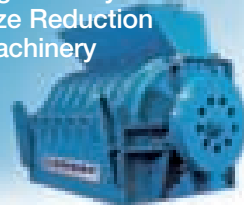
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# New Used Equipment Module to be launched

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