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Waste companies improve planning success rates

Out of nearly 600 planning decisions in 2011 for new waste facilities or extensions to existing sites in Great Britain, 18% were refused or withdrawn. This is an improvement on the previous year when 25% of schemes were refused or withdrawn. This is one of the conclusions of analysis undertaken by BDS Marketing Research Ltd of its planning database. The specialist waste research consultancy monitors planning applications and consents for all waste treatment facilities on a daily basis.

The success rate was similar if just applications submitted by waste management companies are analysed. In this sector, BDS estimates that 81% of applications made by waste companies were given the green light.

BDS has confirmed the trend away from landfill. It picked up only four extensions to void space at existing sites, providing an extra 7.5 million m3 of void in total. No new landfill sites were granted consent, although it did pick up a proposal for a major new storage facility.

A majority of planning consents granted during 2011 related to recycling facilities, including MRFs. The consultancy identified nearly 200 schemes consented. This is an increase on the previous year, when BDS identified around 150 permissions for recycling facilities.

More than 50 consents for anaerobic digestion plants were picked up. Some of these involved small agricultural schemes, but SITA, Shanks, Viridor and Cory were also successful in this sector.

Despite the relative success of the industry over the past year, BDS is still tracking more than 300 applications for waste management facilities that remain outstanding. A majority of these were submitted in 2011, but some remain undecided from as far back as 2009.

It remains a busy time for the industry. BDS picked up over 800 new applications and consents during 2011. This was an increase over the average of 650 in each of the previous two years.

BDS Marketing Research Ltd

Tarmac Increase Production with DUO Installation

DUO has recently installed a new 250tph aggregate processing plant for Tarmac Ltd at their Blashford site near Ringwood in Hampshire. The plant incorporates washing, screening and crushing solutions and is supported by water treatment technologies to deliver Tarmac's desired production levels and the high quality product they require.

Tarmac, the UK's largest quarrying company and supplier of building materials to the construction industry, are a market leader in aggregate supply in the UK. The Blashford site is one of over 100 UK quarries currently operated by Tarmac and is currently producing 290,000 tonnes/yr of BSI approved quality sand & gravel.

Tarmac have been operating the site for 30 years and with planning permission for 6 million tonnes granted in 2008 it became obvious that a replant was necessary as the existing plant would not cope with the required production.

A Successful Tender

With several companies involved in the tender process, DUO and Tarmac worked together over a two year period to evaluate the various options. With over 30 years of experience in designing and installing plants of this type, the DUO solution offered the best value in terms of high quality equipment and installation. Also a critical factor in the successful tender was the ability of DUO to achieve both the health & safety and environmental standards set by Tarmac.

With the Tarmac goal of attaining their Zero Harm target, and where possible, exceeding legal health and safety requirements DUO worked throughout the tender, design and installation stages with Tarmac to minimize the risks to those on-site. The plant design also took into account the requirements of ISO 14001 in minimising any processes that would negatively affect the environment.

Richard Bedford - Unit Manager, commented, *"the new plant gives us much more control and flexibility over our production, it enables us to produce more of the products we are selling; rather than just what is naturally found in the deposit"*

The Installation

The plant is of modular design and has the facility to crush gravel products as required, to maximize the sand and 20mm products. Designed to process 320,000t/annum of



sand and gravel, the new plant produces the required products of grit sand, 10mm, 20mm, 40mm and +40mm/-75mm.

Material is sourced from a dry extraction area 2.5 kilometres away, and is delivered by an existing ground conveyor to the new DUO wash plant where a fully galvanised radial conveyor stockpiles the material over a concrete recovery tunnel which provides a controlled feed onto the main conveyor utilising three heavy duty belt feeders.

The material from the recovery tunnel enters the first processing stage as it is delivered onto a Powerscreen 20 x 6 double-deck rinsing screen. Designed for maximum production efficiency, the rising screen splits the feed into three sizes: +75mm which is sent to a rejects bay and a -75mm/+5mm: and sand.

"The Powerscreen Rising Screens are tried and trusted across multiple applications, particularly sand and gravel" explained John Bracken, the DUO Sales Manager who managed the tender process. He added "This is just one of several Powerscreen components utilized in the project; incorporating Powerscreen products ensures a high level of manufacturing quality and provides Tarmac with a brand they can trust".

The sand from the rising screen is directed to a Finesmaster 120 compact sand plant. This versatile machine utilises a cyclone, instead of a bucket wheel, which removes clays, silts and slime from the sand and produces dry sand. Depending on the feed material, sand production levels of up to 90 tph are achievable with the product, meeting the high standards that Tarmac and its customers' demand.

The -75mm/+5mm material from the rising screen is fed into a Powerscrub 160 logwasher which creates a high speed scrubbing action through the rotation of two axles within a water-filled trough. Any unwanted materials, such as organics, that are mixed in with the feed material are floated off to a trash screen at the rear of the machine. Following the vigorous cleaning action the clean washed material is delivered to a dewatering screen before a being fed to another screen via a conveyor.

A second Powerscreen 20 x 6 Rinsing Screen, this time a triple deck, receives the material and splits it into four fractions: 10mm, 20mm, 40mm and + 40mm/-75mm. The material, which is again rinsed to remove any remaining contaminants, is delivered to stockpiling conveyors via a splitter box. The exception to this is the -75mm/+40mm material which is redirected to a surge bin.

This 20 ton surge bin, which is controllable by the plant operator, offers three options. The -75mm/+40mm can be fed into the VSI crusher. This machine handles approximately 20% of the daily feed, depositing crushed material onto the inclined re-feed conveyor for recirculation back into the system.

Alternatively, the material can be dropped into a rejects bay to be dealt with at the plant operator's discretion. The third option is to store the material in the surge bin should the plant operator wish to temporarily delay the crushing operation.

Water Treatment

The washing system is supported by a DUO water treatment solution which provides a significant reduction in on-site water requirements, providing a substantial cost reduction over time. The water treatment solution includes a thickener tank, a clarified water tank, a flocculent dosing system and supporting equipment.

The first phase of the water treatment plant involves the pumping of the used water from the wash plant to the thickener tank. As the used water enters the thickener tank it is mixed with automatically prepared and automatically dosed flocculent. This flocculent operation is controlled on-site through the PLC and is housed in a flocculent cabin which was installed



complete with internal heating and lighting.

With the ability to house a deep cone thickener tank, the design of the system negates the need for an internal rake. The tank offers lower maintenance costs as no moving parts are required; consequently minimising the risk of downtime.

With the thickened sludge pumped to a lagoon over 1 km away the clarified water weirs over the top of the thickener and is collected in an adjacent water storage tank, ready for re-use in the wash plant. This steel tank has been installed with 'high/low' sensors to provide the plant operators' with maximum control over the plant's operation.

The plant in its entirety is an impressive sight with all of the components benefiting from

fully galvanised support structures. In addition to the galvanised support structures, bespoke handrails designed specifically to meet Tarmac's requirements surround the walkways as well as the top deck of both screens and the entire circumference of the civils.

All of the supporting structures, walkways and handrails at the Blashford site were designed and manufactured by DUO's own manufacturing division based in Frome, Somerset.



www.hub-4.com/directory/928

Lintec award BG Europa distributorship for asphalt and concrete modular plants.

Bury St Edmunds based company BG Europa(UK) Ltd have recently been awarded the sole distributorship for Lintec Asphalt and Concrete modular plants in the UK and Ireland.

Mr. Carsten Weiss - Managing Director of Lintec, commented, "BG Europa is a highly skilled company for the after sales service and retrofitting of existing Barber-Greene plants. With BG Europa we have found a perfect and reliable partner for new asphalt and concrete batching plant projects in the region."

Based in Buxtehude in Southern Germany Lintec is a manufacturer of containerized asphalt and concrete mixing plants. With plants installed worldwide the company manufacture and assemble components which are installed in individual containers (ISO) to form a complete plant with the obvious benefit of mobility and low transportation costs.

Following the foundation of LINTEC in the 80's the company successfully developed the world's first modular asphalt mixing plant in 100% ISO sea containers; following this with the development of containerized concrete batching plants. Since then LINTEC has been the world leader of containerized mixing plants offering numerous advantages in comparison to conventional plants due to their modular construction. A wide range of plant capacities are available from 80-400tph for asphalt plants and 60m³h - 240m³h for concrete plants including adequate optional equipment to suit the specific requirements of every jobsite.

BG Europa (UK) Ltd was established in 1988 from the Barber Greene England Company based in Bury St Edmunds, Suffolk. Technology and expertise existing within Barber Greene at that time was incorporated within BG Europa (UK) Ltd. This expertise has been utilised to develop equipment integrating new technologies whilst retaining the traditional quality and dependability of Barber Greene. In 1994 BG Europa (UK) Ltd moved to new 800m² purpose built premises in Wickhambrook, Suffolk, England. Only 10 miles from Bury St Edmunds, the home of Barber Greene England, the move allowed integration of the design office, spares department and stores whilst retaining links with existing suppliers.



As a family owned business BG Europa provides customers with quality equipment offering low operational costs and long life expectancy at competitive prices. BG Europa places great emphasis on their in-house engineering expertise and installation service which proves invaluable in ensuring customers' requirements for turnkey projects are fully catered for.

Andrew Pettingale - Managing Director, commented, "We are delighted to be awarded the opportunity to promote Lintec GmbH within the UK and Ireland. Unique in their concept the Lintec range of concrete and asphalt plant offer a high degree of versatility, low capital cost and some interesting options to reduce operational costs."

 www.hub-4.com/directory/114

The green electric alternative

Keestrack introduces the new green electric alternative for their Explorer range of classifiers named ECO-drive. "This is not to ride on the 'green' wave", says President Kees Hoogendoorn. "It has a lot of added value for the environment but also on the cost efficiency of the machine".

The Explorer 1500 and 1800, both available as 3 and 4 split classifiers, are now also available in the ECO-drive version. The electrical driven machine can run autonomously by the diesel engine which generates the electric power. However the electricity can also be supplied by the electricity network or from an electrical plug on the crusher.

The screening results are the same as the standard diesel/hydraulic driven version however the maintenance costs of the ECO-drive diesel engine is much lower as this machine also runs on 'external' electricity coming from the power network or generated from the engine of a crusher placed before the classifier. This saves energy, money and reduces emissions.



 www.hub-4.com/directory/12578

Deputy Prime Minister launches £6million investment at Van Dalen Sheffield



Deputy Prime Minister and Leader of the Liberal Democrats Nick Clegg (Sheffield Hallam) joined fellow Sheffield MP, the Right Honourable David Blunkett (Labour, Sheffield Brightside and Hillsborough), to officially launch a new six million pound investment on Friday 16th March at the UK headquarters of metals recycler Van Dalen. The business, which celebrates its 65th anniversary this year, has installed a state-of-the-art ferrous shredder and non-ferrous facility to greatly expand its domestic and export capabilities.

Following the launch, Mr Clegg commented: "Van Dalen is a real Sheffield success story. This investment is great news for Sheffield's economy and the wider region. As we build a new economy from the rubble of the old, the Liberal Democrats are determined to make sure prosperity is shared across the whole country, not just London and the South East. Companies like this will be at the heart of that recovery and I am proud to see it go from strength to strength."

Mr Blunkett added: "This imaginative investment is not only in line with the history and tradition of steel and re-processing in Sheffield, but is an example of how, despite the recession, jobs and economic activity can be created. The investment over the last seven years and the extra jobs are extremely welcome at this moment in time as an example of how responsible businesses can recycle metals for modern re-use."



Van Dalen is a family business and is currently owned by sole shareholder Rudolph van Dalen Jr. The business owns 13 facilities across the Netherlands and Belgium, including six sites in the UK at Sheffield, Dagenham, Chatham, Immingham, South Shields and Hartlepool. Annual production exceeds 1.5 million tonnes across Europe and the company is active in both the ferrous and non-ferrous trade. More than 35 per cent of the metals processed by the business in the UK are handled at Van Dalen UK's Sheffield headquarters.

Van Dalen UK managing director Tom Bird said: "The UK business is running extremely well following a strong performance in 2011. The installation of the shredder in Sheffield transforms our site into a complete metals recycling facility. Going forward, we are focused on further growth, not only around the Sheffield region, but the UK generally."

Frank Heukeshoven, Van Dalen group CEO, added: "Our UK operations form a vital part of the Van Dalen business, now processing around a third of our annual production worldwide. When we first started work on this six acre site in Sheffield in 2005, we were faced with a significant building job to get off the ground. Seven years and a total of ten million pounds of investment later (including the recent six million pound figure), we are delighted that our hard work and dedication to the region has paid off. It was a real privilege to welcome Mr Clegg and Mr Blunkett on a tour of the site to mark the official opening of our new recycling facilities."

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Sensing growth opportunities

Could the sensors sector be a microcosm of the whole national economy? Tony Ingham of Sensor Technology certainly thinks so. Here he looks at what it will take to run a small technology company in the second decade of the millennium and suggests parallels with the wider world.

You might think it perverse to say something positive about the recent recession, but it had a characteristic that I have rarely seen before - in bad times or good. It helped a lot of people realise what really makes economies tick.

In previous recessions, most peoples' reaction was to work harder on winning sales, i.e. keep doing what they had been doing and hope for an upturn. This time though, people saw the weaknesses of the whole financial sector and began to analyse how and why economies work.

There has been a realisation that there is a massive difference between fast paper profits and fundamental wealth creation. The engine room of the economy is not the City of London, it is the primary industries, such as manufacturing and agriculture. These create thousands of jobs up and down the country, rather than concentrating so much wealth into the hands of a few lucky individuals that they become divorced from economic reality.

In fact, manufacturing, engineering, science and technology have all fared relatively well over the last couple of years - most of the pain was felt in other sectors. So it is not that surprising that manufacturing is currently our strongest sector.

But the important point is that it must remain so. Manufacturing can be wonderfully profitable if managed correctly over the whole term of its products' lifecycles. It creates masses of jobs at all levels. It creates yet more jobs in the supporting sectors such as research, development, engineering and design. Its products are easily exportable, so will suck overseas revenues into our coffers. It is also very stable; the need for capital production equipment, highly skilled staff and a sophisticated supporting infrastructure makes it relatively difficult to relocate once it is established.

At the moment, the government is full of praise for manufacturing, but this simply is not enough. This and future governments must support manufacturing and the other technical industries. It needs to develop policies that encourage and promote manufacturing, help exporters, support enterprise and finance R&D; that generate enough trained scientists, engineers, technicians and designers, that improve the social status of those that serve their country via the technology industries. It's a big ask, but the Chinese and Indians are doing it; the Japanese and Germans did it 50 years ago and the Americans did it 50 years before them.

So where does the sensor sector fit into all this? Well sensors are now widely used across so many areas that they are a bell-weather for the whole economy.

Overall, the sensor sector weathered the downturn well. Early in the recession many car makers and other major industries shut down production for 3 months to reduce stock. But they also took the opportunity to invest in new manufacturing systems, including sensors. Furthermore, sensors are wonderfully exportable, so manufacturers often remained busy servicing clients abroad. And while the recession was bad, the sectors that suffered the most - finance, banking etc - were not major direct purchasers of sensors.

The UK sensors sector is currently underdeveloped, so offers many opportunities for building strong manufacturing companies that could easily become world leaders and major exporters.

The sector got going on a worldwide basis in the late-1970s or early 1980s, when traditional craft-based instrument making was giving way to sophisticated manufacture of high tech sensors. Unfortunately, at this time manufacturing was definitely not in favour in the UK. Instead, the government of the day was happily clearing away what it saw as union-infested, decrepit, smokestack industries, so that new sunrise industries could take root (in a free market, without government support). So while the UK got call centres and pension advisors, sensor manufacturing flourished in countries where capital enterprise was supported, where labour forces did not have a black name, where a growing manufacturing sector provided a domestic market.

I must at this point say that there were exceptions, notably our own company Sensor Technology which researches, designs, develops, and manufactures sensors in the centre of England. It is a self-evident truth that what we have achieved could be replicated by other sensor manufacturers, especially if general UK manufacturing grows.

There is a virtuous circle to be developed. The more sensors that are used, the greater the manufacturing volumes; this lowers unit prices and also allows investment in automated production and improved quality systems, which encourages yet more usage.

The driving forces for the development of sensor technology include miniaturisation, robust solid state controllers replacing delicate mechanisms, wireless solutions, increasing intelligence, improved connectivity and 'open' communications. New drivers will also emerge, and new markets will open up.

Since Sensor Technology first set out its stall, cars have gone from having a handful of sensors to literally thousands, factories have become automated, soaking up sensors, entirely new markets have opened up such as home electronics, mobile devices, medical equipment, CCTV and surveillance, etc. Future growth will be even greater, and it is there for the taking - hopefully by a strong UK sensor manufacturing industry!

shentongroup appointed exclusive UK distributor for Allmand Bros, Inc

Specialist supplier of power generation and energy systems, shentongroup, has been selected as the exclusive UK distributor for USA based Allmand Bros Inc., a leading worldwide manufacturer of portable site support products and the inventor of the first Portable Light Tower. Bison, a new shentongroup division established to provide robust, quality and innovative products to the rental sector, will market the Allmand products.

Included in the Allmand light tower range is the NL PRO II V-Series featuring a hydraulically actuated vertical mast that can be fully raised or lowered in only 20 seconds. With the lights contained within the footprint of the trailer, less space is required for storage or shipping and the potential for damage, due to lights hanging over the rear of the trailer, is completely eliminated. Protected by a heavy-duty enclosure with impact-resistant and rustproof "gull wing" doors, the unit is well suited for the rigours of the rental sector.

Still leading the market in innovation after almost 75 years, Allmand Bros, Inc is a worldwide provider of Site Support Products with their main focus being portable light and heating products. Primarily used to support the Construction, Oil & Gas and Mining markets, Allmand operates in over 40 countries around the world through a network of distributors.

Ross Hilton, International Sales Manager for Allmand says: "shentongroup became an obvious choice based on recommendations from our Australian Distributor SE Power, which has known the company for many years. As we began to understand how the company operates its business we soon realised that it shares many of the same values as Allmand. As shentongroup has an extensive knowledge of the industry as well as National Engineer coverage, we felt that it would provide the standard of service that end customers expect from Allmand. We have high hopes for our products in the UK market and believe that together with Bison we will be able to meet these expectations."

Darren Meek, Director at shentongroup is "certain that we will continue to perform and grow in this industry and are pleased to be able to add the Allmand range of products to our existing line up".

By combining its expertise with that of Allmand, shentongroup is able to provide customers with top-of-the-range light towers, backed by the company's renowned reputation for technical ability and customer service. The Allmand light towers are the first of a number of innovative products being launched in the UK during 2012 by shentongroup's Bison division.



 www.hub-4.com/directory/15253



International hydraulic tools specialist Hi-Force launches NEW catalogue

Consisting of over 1,900 products and spread across 192 pages, the NEW Hi-Force 2012 catalogue is by far the biggest and most comprehensive offering from Hi-Force, the leading UK-based manufacturer of high pressure hydraulic tools and equipment.

The catalogue, which is packed full of product and technical information, also includes the latest additions to the Hi-Force range. Most notably, the new generation ToughLift Jacking System which offers users the easiest and safest method of lifting material haulers in the mining and construction industry, where minimal maintenance and repair downtime of capital intensive equipment is essential. The range which comprises of 12 models, has lifting capacities from 50 - 200 tonnes, and offers a choice of hydraulic lift height options on the 100 & 200 tonne versions, making the ToughLift one of the strongest and most versatile lifting jacks in the market today. Suitable for lifting even the largest earth haulers in the World, all models are powered by an integrated electric driven or air driven hydraulic pump unit and feature a remote push button hand pendant control unit, with a 5 metre control cable for easy operation, safely and remotely from the jacking point. The Hi-Force ToughLift jacking system incorporates a number of patented features, including a multi-positional transport & lifting handle and a unique swivel jacking base to guarantee safe and correct positioning of the lifting cylinder under the vehicle, prior to lifting it up. Fitted with large diameter wheels and solid rubber tyres for easy manoeuvring, all models are narrow in width, enabling them to fit into confined spaces whether in use or in storage, and have the smallest footprint size compared to all other competitor brand models. There is also a large variety of optional extras available to compliment the range including mechanical load holding blocks, swivel load caps and mechanical locking and slip lock extensions, all of which add further safety features and benefits to the operator.

Another popular addition to the catalogue is the GTB1 and PTB1 Bead Breakers. These NEW time saving accessories compliment the ToughLift range,

eliminating danger and reducing the effort required to change tyres on large trucks, tractors and earthmovers.

The GTB Giant Bead Breaker is suitable for use on 5 piece rims 25" to 51" (635 to 1295 mm). With this model you can remove larger tyres with ease using a powerful 14 tonnes capacity, 700 Bar hydraulic cylinder which has a nett weight of 12.5kgs.

The PTB1 Combi Bead Breaker is suitable for use on single, two and three - piece 2-5-10 hole budd, 7.50 x 16s and all tubeless truck tyres and rims. It can break beads using a powerful 11 tonnes capacity, 700 bar hydraulic cylinder leaving no rim damage. Both types of bead breakers are simple to operate without bolts, screws or attachments and are compatible for use with a range of Hi-Force 700 Bar rated hand and powered pumps.

With all the new and existing products offered in the new catalogue, it is by far the biggest and best offering from Hi-Force to date. Commenting on the completion of the Hi-Force catalogue, Sales and Marketing Director Mar Noordhoek enthused, "It is always a great feeling to release a new version of the Hi-Force catalogue that we are confident is even better than the previous issue! We believe we have created a first class catalogue based around our customers' needs that is easy to use and packed full of helpful and technical information. Each year there is tremendous growth within our Company and we feel that this latest catalogue reflects that success!"

With many other new products to the catalogue, Hi-Force continues to invest heavily in the group's manufacturing facility as well as placing emphasis on the research and development of innovative products such as ToughLift, making Hi-Force products the leading edge of the hydraulic tools industry.

The new catalogue is available to download now from www.hi-force.com, printed versions of the catalogue are also available, please contact your local Hi-Force Regional Office or distributor to obtain your copy.

TL200A380 ToughLift Jacking System



GTB1-Giant Bead Breaker



PTB1-Combi Bead Breaker





Weir Minerals Europe Finnish First

Weir Minerals has launched its first servicing base in Finland to provide increased support to its growing customer base across the Finland, Sweden and Norway - or Scandinavia as a whole.

The business has supplied pumps and other process equipment to the mining and aggregates sectors across Scandinavia for 20 years and the new base will allow it to offer an improved level of service to its customer base.

Strategically located in Keminmaa, the new centre will allow Weir Minerals service engineers to quickly access its customers' sites in the vicinity.

A permanent team of Weir Minerals technicians will be based at the centre so that repair and maintenance can be carried out, minimising the turnaround time for support services.

Stock will also be kept at the location, allowing commonly ordered smaller items to be delivered rapidly to customer locations.

The opening of the centre follows Weir Minerals acquisition of Swedish service business Gema - which specialises in servicing mines in Northern Sweden - earlier this year as it looks to bolster its presence in Scandinavia. Weir Minerals has taken this opportunity to relocate their existing Swedish office in Lulea into Gema strengthening the sales and customer team in one.

During the first quarter of 2012 alone Weir Minerals has opened additional new sales and service centres in Spain and the Netherlands, in addition to the new site in Keminmaa, with plans for further new locations anticipated later this year.

Tony G Locke, Managing Director of Weir Minerals Europe, said: "With its established and growing mineral extraction industries, Scandinavia is a key European mining location."

"Through our new service centre we're able to provide timely and critical support services to mines across the Finnish-Swedish border regions."

Weir Minerals Europe delivers end-to-end solutions for all mining, transportation, milling, processing and waste management processes across a range of industries and in over 30 different territories.



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New website for Asphalt burner services Ltd

The new website of Asphalt Burner Services Ltd is going live in March 2012 providing the asphalt industry access to a trilingual website in English, French and German. The launch of the new website provides our customers with easy secure access to essential information and the ability to sign in and view their interactive records; this is an innovative confidential feature so our customers have instant access to their burner service history.

ABS Ltd is part of the UK and Europe's ongoing asphalt industry development and recently introduced the launch of their prestigious Vulcan Burner Range to enhance quality and efficiency on Asphalt plants. The availability of information for managers and members is unlimited as all our engineers provide complete and detailed reports once a service is complete.

The new website boasts a modern, robust, interactive design and is divided into sections: Home, Products, Plant Upgrades, Services and Spare Parts. Each page provides detailed information on all aspects of the organisation's functioning, extensive directory of spare parts and a simple 'book a service directly' feature. ABS have analysed how the asphalt industry has rapidly changed in recent years and we too are adapting to meet and set these new requirements.

We have thought about what our site visitors go on and their requirements and we aim to set the bar for impressing new potential customers. Miss McElwee (Marketing Manager) said 'The industry is such a niche market and the company aim to strictly focus on ensuring maximum efficiency is achieved gaining improved performance at each site. The results of the new manufactured Vulcan Burners speak volumes and international interest is escalating, this is why we are showcasing at Intermat Expo, Paris 16-21 April 2012.'

The Website's user-friendly nature provides users with more efficient access to the organisation's resources. Other new functions will include a video and photo gallery, access to download extracts of recent industry news and featured products performance.

The combination of Asphalt Burner Services launch of the new website which will really become an significant feature for the



company. No other service company can provide a full service history and breakdown service within 24hrs. It will surely make **www.burnerservices.net** the first choice for asphalt industry customers to search and find their product/information or service.

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Parker Plant is delighted to announce the appointment of Andrew Dakin as Senior Sales Manager. Welcoming him to Parker Plant are Brett Dalby and Charlie Threapleton in Leicester on the 19th March 2012.

With more than 30 years experience in the supply of crushing and screening equipment to the quarrying, mining, demolition and contracting segments, Andrew will use his vast experience to recruit new distributors for the highly successful & rapidly expanding Phoenix Parker group.

The products available include tracked, wheeled & static crushing and screening plant, static & mobile asphalt plants, concrete plants, conveyor systems & components as well as Cartem bitumen & surfacing products.

Andrew will also use his vast experience and expertise to assist with direct sales and expanding the company's distribution network worldwide.

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On Cloud Nine

Wheeled loaders have become a familiar sight in the UK waste and recycling industry. Yet waste operators have consistently struggled to maintain uptime due to dust clogging up their machinery. Until now that is. More and more customers are now turning to Bell Equipment, whose loaders are making heads turn.

The UK waste and recycling industry provides an invaluable service in keeping our nations clean and green.

Yet the end result belies the harsh and dusty working conditions experienced across the sector. This is particularly true of indoor recycling plants.

While the human operators protect themselves from dusty atmospheres with face masks and goggles, wheeled loader manufacturers have mostly failed to provide the perfect solution in preventing airborne debris from building up in engines and cooling systems.

The problem causes expensive downtime and excessive machine maintenance.

But, in 2009, Bell Equipment introduced its six-strong range of wheeled loaders to the UK, and customers have been increasingly impressed; not only by the higher-than-average standard specifications and power but by their ability to keep on working in the very harshest of waste handling environments.

The secret lies primarily in Bell's unique QuadCool cooling system, which keeps the internal mechanics clean and operational, whatever type of environment the loaders are operating in.

New West Gypsum Recycling, based in Avonmouth, Bristol, is a prime example of where Bell loaders have shone.

The company, which operates from an industrial estate in St Andrews Road, provides the harshest test for any machinery. Its core task involves breaking up used or damaged plasterboard and turning it to calcium sulphate powder, which is then delivered to Lafarge to make new plasterboard.

The operation, which processes between 500 and 1,000 tonnes of material per week, takes place inside a shed that is constantly shrouded in a cloud of white dust.

In 2010, New West Gypsum trialled a Bell loader when it was looking to replace an existing machine from another manufacturer. The trial went well and the plant now operates two Bell L1506E wheeled loaders.

Bob Curd, UK operations manager for New West Gypsum Recycling, said: *"Our working environment would challenge any machine, but we've noticed a huge difference with the Bells due to the QuadCool system. We've certainly seen a reduction in downtime."*

"Whereas we were continually having to blow out our previous loaders, we could now get away with doing it every other day if we had to. They're fantastic machines."

The story is similar at Premier Waste, in Perry Barr, Birmingham, which operates one of the largest indoor recycling facilities in the country. Premier Waste segregates virtually all types of construction, demolition and municipal waste, including plastics, wood, metals, soils and aggregates.

Mark Jones, of Premier Waste, said he was immediately interested in looking at a Bell loader when he first came across them at the 2010 Hillhead exhibition. He trialled a demo machine and purchased a new L1706E with high-tip bucket.

Mr Jones said: *"It's got great build quality and many people commented on how robust it looked. It is all-singing-and-dancing - the fact it came with all the added extras as standard was also very important."*

"After performing 6,000 hours of service in around 12 months, Premier Waste has now traded-in the original machine for a new L1706E plus a slightly smaller L1506E."

"Other loaders we've operated have had problems with fans clogging up due to the working environment," said Mr Jones. "But as soon as I saw the QuadCool system on Bell's loaders I realised it was possible to overcome this problem".

"We would generally need to clean our other machines three or four times a day, but with the QuadCool we now do it once a day at the end of each shift. We probably don't even need to do it that often. We've definitely saved on downtime."

The QuadCool system was designed by John Deere, which manufactures Bell's loaders in the US to UK specifications. It was initially designed to counter the airborne debris common in the US agricultural market.

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

With the E-Series loaders, steel access panels have fine mesh screens to filter cooling air as it enters the QuadCool system. The holes in the screen are substantially smaller than the wide-core radiators, so any debris drawn in passes straight through the system, thus extending intervals between cleaning - and increasing up-time.

Included "as standard" in the QuadCool system is the automatic reversing fan and a proportional fan speed, which operates independently to the engine. ►

It is a system which has not failed to impress a growing number of Bell customers in the waste and recycling sector, many of whom were unfamiliar with the strong reputation Bell had already established with its articulated dump trucks.

Industry leader Görrel purchased 12 Bell loaders in 2011 following a successful demo at a wood recycling plant in Manchester.

Mike Haskell, general manager of Görrel, said: *"The extremely dusty environment was intentionally chosen to really put the Bell machines through their paces."*

Other loaders operating on that particular site have experienced severe overheating problems due to the airborne debris clogging up the system, leading to a lot of downtime for cleaning and maintenance.

The Bell L1706E loader that was trialled performed impressively and was still spotlessly clean after the end of the demo."

Other Bell loaders have been purchased by the likes of Tom Waste Solutions in Scotland, Slough Heat & Power (Scottish & Southern Energy), Earthline and Brewsters Waste Management in East London.

Without exception, every one of them has been impressed with the Bells and, particularly, with the way the QuadCool system overcomes the problems of debris build-up in indoor applications.

Brewsters Waste Management bought its L1806E loader from Bell after having a larger L2106E machine on hire from Görrel.

Part-owner Steven Brewster said: *"It's a beautiful machine - and for the price and the extras you'd have to be silly not to look at it. The reversing fan works perfectly. With the machines we've had before we would need to blow them out every other day; but even after having the Bell machine for three weeks, it still didn't need it. That's pretty impressive when, apart from a coal mine, I don't think you can get a harsher, dustier environment than this."*

Slough Heat & Power, a subsidiary of Scottish & Southern Energy, purchased three new Bell L1806E loaders to work in its woodchip and waste-derived fuel processing sites, once again after trialling a machine on site.

John Watson, national fuel manager (waste and biomass) for SSE, said: *"The Bell machines have proved to be much better at working in our environment than any other machine on the market. There are few harsher conditions that a wheeled loader can operate in."*

He added: *"If you look at what is available in the market place at the moment, and if I had to replace the machines today, I would more than likely replace them with Bells."*

As Bell ventures deeper into the waste and recycling market, it is finding that its loaders, which range from the L1204E up to the L2606E, are having an even more positive effect on customer operations and efficiencies than it ever imagined when it launched the new loaders.

Neville Paynter, managing director of Bell Equipment UK, said: *"The machines are genuinely well-designed, robust and reliable, and from the outset we decided to offer the highest standard spec on the market. Yet it is the QuadCool system which has made the really big difference in the waste and recycling industry. It's fantastic to receive such positive endorsements from some of the biggest players in the sector."*



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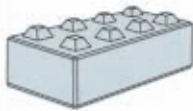


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Kal Tire UK prove it takes more than just rubber to produce quality retread earthmover tyres

Retread manufacturing at Kal Tire Mining Tire Group's UK plant has shown that despite global raw material costs increasing and a major shortage of good casings to retread, a quality product will always be in demand, with more than 1.3 million pounds of rubber compound used and in excess of 3,000 tyres produced over the past 12 months.

Whilst the actual manufacturing output has shown the results for the year, it is the infrastructure that has been put in place over the past three years, the initiatives introduced and adhered to and the performance of the manufacturing team, that have all contributed to the outstanding results.

Factory

The manufacturing facility, located at Kal Tire's UK head office, near Alfreton, Derbyshire, houses state of the art retreading machinery. New mould matrixs, satisfy customer demand for different tyre size tread patterns plus a refurbished semi automatic tyre builder to work alongside the recently purchased fully automated builder, take the value of the equipment to in excess of £4million.

"We have a continual improvement programme in the factories" said UK and Ghana Manufacturing Manager Wayne Cornell "and we will continue to look and find ways to improve the efficiency and effectiveness of the whole process".

LEAN Initiative

Introduced 3 years ago into the Alfreton factory following research and development by UK Managing Director Darren Flint, the LEAN initiative has made a significant contribution to performance since then.

The core components of the initiative centre around the '5 S's philosophy' - sort, set in order, shine, standardise and sustain. Darren Flint added *"We are delighted with the way the manufacturing team have taken the initiative on to improve many aspects of the factory. The bottom line is simple - reduce all forms of 'waste' be that material waste, effort, energy, time etc. - it is a case of recognising where there is waste, and doing something about it".*

Whilst accepting that the manufacturing



process of retreading earthmover and mining tyres will always generate 'waste', what Kal Tire have identified and reacted upon is that this discarded material (primarily rubber compound 'crumb' buffed from the tyres prior to retreading or repair) may have a secondary use.

Hysteresis testing has been introduced for a trial period to determine if the reclaimed materials can be reused, together with other raw materials and compounds, in the manufacturing process.

As Wayne Cornell said *"This initiative again highlights Kal Tire's continual commitment towards recycling and environmental efficiency - after all, 'retreading is recycling'."*

Tyre Repairs

The global nature of the Kal Tire Mining Tire Group is such that the transfer of manufacturing or service principles, together with products and supplies, has opened many new avenues for process improvements.

Large tyre injuries have always been a concern - the side wall or tread damage that exposes or breaks large areas of the tyres infrastructure has always been a major health and safety issue.



Perhaps more prevalent in the North American mining environment, Canadian tyre repair component specialists have started a 'major injuries' training programme for Kal Tire's UK repair technicians and a number of tyres will be out on trial shortly. *"If these larger repairs prove successful then again, we will be giving our customer the chance to extend their tyre life, at a fraction of the replacement cost"* said Wayne Cornell.

A drive towards competitive advantage

The modern production environment demands reliability and flexibility from plant equipment, allowing it to cope with the wide range of variables which may occur. This is essential if high productivity is to be sustained and profit levels to be maximised.

Rexroth puts you in touch with leading engineers in heavy systems engineering incorporating hydraulic drive systems and controls, servo drives and controls, pneumatics, linear and factory automation. The scope of Rexroth products for heavy engineering projects is unrivalled and thanks to its expertise in applications, provides a comprehensive service and unique solutions to all heavy industries.

Bosch Rexroth is renowned in heavy industries with its hydraulic systems technology and other products, enhanced now with unique Häggblunds direct hydraulic drives. This brings significant benefits such as starting with full load, low inertia fast response and accurately controlling torque to prevent overloads. This wide range of products and its formidable engineering knowledge, ensures the best drive and control solution for your plant.



Belt conveyor for coal at power station

This Amco Birtley belt conveyor at Tilbury Power Station in the UK is 200m long with speed range up to 2.5m/sec and capacity of 3000 tonne/hr of coal from the ship unloaders. Smooth dynamic acceleration and braking enables the loaded conveyor to stop quickly and prevent flooding the downstream conveyors.



Autoclave processing household waste

This Joseph Rhodes autoclave is a large rotating drum with doors each end processing household waste under pressure with steam. A Häggblunds motor drives a single pinion against a girth gear in both directions and the drum has to be stopped accurately to engage a shot bolt before the auxiliary hydraulics opens the doors for loading and unloading.



Agitators or mixers in process industries

Direct hydraulic drives are very suitable for agitators either top or bottom entry. They give excellent overload protection to the impeller arrangement with a wide speed range. They are far more compact and weight saving than the traditional gearbox which makes attending to the agitator shaft sealings much quicker and easier to maintain.

Doosan New Generation Large Wheel Loaders

At Intermat, Doosan Infracore Construction Equipment is launching the new generation DL300-3, DL350-3, DL420-3, DL450-3 and DL550-3 large wheel loaders. Powered by Scania SCR diesel engines meeting the Stage IIIB EU emissions regulations, the new large wheel loaders combine high engine power output with new ZF transmissions and several other features to minimise fuel consumption and provide exceptional performance, ease of handling, serviceability, durability and significantly enhanced operator comfort.

With bucket capacities ranging from 3.0 to 5.5 m³, the new Doosan large wheel loaders are intended to meet a wide range of material-handling needs from loading and transporting granular material (such as sand and gravel) to industrial, mining and quarrying applications.

The DL300-3 and DL350-3 wheel loaders are driven by the 9-litre Scania DC09 SCR 5-cylinder diesel engine delivering a maximum power output of 202 kW at 1800 rpm, whilst the DL420-3, DL450-3 and DL550-3 models are powered by the larger 13-litre Scania DC13 SCR 6-cylinder diesel engine delivering 'best in class' power and engine torque, with maximum power outputs of 264, 264 and 283 kW at 1800 rpm, respectively.

Lower Fuel Consumption

Many of the features of the new generation large wheel loaders have been developed to optimize fuel efficiency. SCR technology reduces fuel consumption by about 10% compared to similar size machines with EGR technology. Resale is also better as it is easy to reset to Stage II engines for use in emerging markets.

The new large wheel loaders have three engine working modes: ECO, NORMAL and POWER, to adapt the machine to different applications, with different engine speeds and gear steps according to the working mode engaged. With the 'Power-Up' function, the operator can manually adjust to the next highest working mode by applying a full stroke of the accelerator pedal. With this function, the operator can travel in moderate NORMAL mode and switch to POWER mode when it is really needed, such as when taking material from a pile. This capability helps to reduce fuel consumption. The ECO Bar provides information about fuel consumption in relation to machine performance in real-time, allowing the operator to select the driving profile for the best fuel efficiency.

The operator can set a password for machine start. If Auto Idle is activated, engine speed goes down about 200 rpm after 10 seconds if there is no machine movement. Auto Idle is ideal for applications with long waiting times, such as truck loading. Thanks to Auto Idle, fuel consumption is reduced by up to 8%.

All new generation Doosan large wheel loaders are equipped with load-sensing controlled, variable hydraulic piston pumps, improving performance and reducing fuel consumption. With load sensing, the hydraulic pumps receive a signal from the MCV informing how much oil is needed. This helps to save on engine performance.

With the clutch cut-off system engaged, the driver is able to disconnect the transmission from the engine by operating the brake pedal, to have 100% engine performance for the hydraulic system. As a result, movements are faster, breakout force is maximized and fuel consumption is reduced.

All new generation Doosan large wheel loaders are equipped with a torque-converter-cut-off (TCCO) system which, when activated, is switched on automatically. This provides a direct mechanical connection between the engine and transmission without loss of power and torque by the torque converter. Tests show that fuel consumption is up to 10% lower with increased traction compared with conventional systems. In contrast to the drive systems on other machines, the TCCO can be engaged



even in 2nd to 5th gear, not just in the highest gear. This makes the TCCO more efficient.

New ZF 5-gear transmission

The new ZF 5-gear transmission improves the transfer of power from the engine to the wheels and contributes significantly to the overall reduction in fuel consumption. The change from four to five gears provides better response and acceleration, especially on slopes. Engine speed variation is less thanks to smaller gear steps, and lower engine speed throughout the whole drive range reduces fuel consumption. Thanks to higher shift quality, noise levels are lower while driving performance and productivity have been increased. A lock-up-clutch also helps to reduce fuel consumption.

New ZF limited slip Type II differential axles provide more durability and a longer lifetime. Rolling resistance for the axles is also reduced, improving traction and decreasing fuel consumption. As an option, customers can choose ZF axles with a hydraulic differential lock. This function is engaged via the operator pedal or in automatic mode, depending on

the torque resistance in 1st and 2nd gear. The advantage of the hydraulic lock system is that it has less rolling resistance compared to the limited slip system.

The radiator fan is hydraulically driven and controlled by an ECU. Changing the fan direction for cleaning the radiator can be done manually from the cab, without having to switch off the engine. Fan reverse intervals (30 minutes to 2 hours) can be set via the menu.

High Operator Comfort

A new cab design features improvements both outside - such as better visibility due to a wider front glass section and an extended wiper blade area, better protection thanks to larger mud guards, improved hand rail and step designs and a new roof cover - as well as inside - such as the new instrument panel with integrated vehicle control unit (VCU).

The control panel has been redesigned to allow the operator to choose the information they want on the display. Using the Main Menu, the operator has access to several functions and machine information. Pressure, temperature and engine speed can be monitored in real time. Detailed operating information is available via the Special Menu.

The new wheel loaders will have Grammer seats, which are vertically as well as horizontally air suspended. This design, which cushions movements to the front and the rear, is recommended by orthopedic consultants and is well accepted by operators.

By relocating the reservoir for the wiper water to the outside of the cab, space inside has been increased, providing more foot room. The air conditioning system is regulated automatically by a temperature sensor.

To keep cans and food fresh, a new cooling compartment is standard. There is also more storage room behind the seat.

Durability and Serviceability

All Doosan new generation large wheel loaders have as standard the SKF Vogel Auto Lubrication system. This system increases operational hours and extends the lifetime of the machine.

The lift arm has been strengthened with 10% thicker metal in the arm and the tilt lever.

An automatic front control system allows the operator to save one low and one high position. The boom raise 'kick out' function reduces cycle times and increases operator comfort. 'Return to dig' positions can also be saved.

New kinematics and a larger cylinder on the lift arm have allowed the main pressure in the front hydraulic system to be increased by up to 40 - 70 bar, depending on the machine size, with a corresponding increase in breakout and lifting forces of up to 5%.

A larger opening angle for the side door improves serviceability. A 90° swing-out fan with swing-out side doors provides easy access to the rear for cleaning the new one block radiator. The operator can set and monitor the time remaining to the next service. If the maintenance period is exceeded, a pop-up warning will appear. Increased space in the engine compartment ensures that components such as filters, valves and batteries are within easy reach for service work.

For more information about Doosan construction equipment, visit the website: www.doosanequipment.eu



Geith Launches New Automatic Couplers at Intermat

Geith, a world leader in the design and manufacture of couplers and attachment products for excavators, is launching new safety-focused, automatic quick couplers for a range of excavator sizes. Thanks to their quality, reliability, durability and low maintenance, Geith couplers are among the very best in the industry.

The new QC35/40 hydraulic coupler is designed for use on mini-excavators from 2 to 4 tonne in weight and expands the range of Geith couplers to cover excavators from 2 to 90 tonne.

These fully automatic couplers ensure a safe changeover of attachments without the need for the operator to leave the excavator cab. A patented double pin locking system ensures that the coupler retains the attachment in a safe position even if there is a loss of power.

Clearly visible from the cab, the front safety lock is activated by a powerful spring and hydraulic cylinder. This design offers a clear advantage over gravity systems, which is especially important when working in very difficult and dirty environments.

As safety is a core value at Geith, the company is participating in the ISO Working Group aiming to create a new International Quick Coupler Standard, which is scheduled for publication in 2013. Since the new Standard is still under development, no company can claim to be compliant. However, Geith has ensured that all its couplers comply fully with all current national standards and safety regulations, and will continue to do so in the future.

The focus on safety has led to increased complexity in some coupler systems, compromising on reliability and performance. By contrast, Geith has continued to focus on developing the simplest, most reliable and safest couplers with few moving parts and no grease points so there is a limited need for maintenance.



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Viby preparing for UK growth

Viby Attachment is using Hillhead as a further boost for a record increase in UK market activity this year.

The Danish attachment manufacturer has already seen UK sales increase by more than thirty per cent in the first quarter of 2012 compared with the same time last year, and it believes Hillhead will help to reinforce this growth trend.

Andrew Little, UK sales manager for Viby, said: "During the recession many customers have understandably tightened their purse strings, and either delayed buying new equipment or bought cheaper.

"The cheaper options, however, typically mean a compromise in quality. We've always had a reputation for high quality and, as a result, we are now seeing a significant uplift in sales of our products.

"Viby attachments are, unashamedly, built to last, so in the medium-to-long-term, will provide unrivalled value for money. I think our customers recognise this."

Viby will be showcasing a range of its attachments at Hillhead, both on its stand (B28) and in the quarry demo area.

Visitors will be able to see a selection of Viby's unique High-Tip and GP buckets for wheeled loaders, which have each experienced a major growth in interest from the UK waste & recycling markets as well as the traditional construction and earthmoving sectors.

Viby will also display a heavy duty rock bucket, one of which is also likely to be working in the quarry demo area on one of its customers' excavators.

Volvo has also confirmed that it will be using a 3m³ Viby High-Tip bucket with Top Grab on a new L60G wheeled loader in the demo area, and Bell will also be giving a Viby bucket a run-out on one of its demo loaders.

Little said: "Hillhead is always an excellent exhibition, and it has fallen at just the right time for us - when interest from UK customers who recognise the value of durability is at an all-time high."



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Recycling Specialist Goes For Case

A trio of machines from Case Construction Equipment is helping to increase productivity and reduce fuel costs for one of the UK's leading wood processing and recycling specialists. Barnsley-based Case dealer Warwick Ward has supplied two new Case 821 F XR Waste Spec Wheel Loaders and a TX130-45 Waste Spec Telehandler to R Plevin & Sons for use in their Elkesley processing plant in Nottinghamshire.

Elkesley is one of three sites that in total collect, process and distribute in excess of 600,000 tonnes of wood a year, which is then used to make biomass fuel, composite wood products and animal bedding.

The three machines are used to handle wood waste coming into the plant as well as processed fibre stockpiled at the site. Working 2 shifts per day up to 6 days per week in dry, dusty environments, the machines were chosen primarily for their durability, productivity and fuel efficiency.

The Case 821 FXR wheel loader is one of three F-Series loaders introduced last year. Equipped with a 6.7 litre Tier 4 interim certified diesel engine, the F Series loaders offer increased horsepower and torque output while selective catalytic reduction (SCR) technology ensures they meet the latest emissions regulations. The high lift arm machines are fitted with 8m³ High Tip buckets.

Designed with the operators in mind the 821F range is equipped with a spacious operator's cab, ensuring unobstructed views to both edges of the bucket while a wide window and sloping engine cover

ensure excellent visibility to the rear.

Ergonomically placed controls and a fully adjustable seat guarantees a comfortable, stress-free environment for the operator

The award-winning Case Joystick Steering system lets operators move seamlessly between the joystick and the steering wheel for high production operations, while the Case PowerInch feature assists the operator in tight loading areas, regardless of engine speed, providing full power to the loader arms and bucket cylinders.

"The two 821F XR loading shovels are working two shifts from 6 o'clock in the morning to 10 o'clock at night over five days and sometimes six" says Dean Ashton, Group Engineering Director with Plevins.

"I look at having the least machines as possible and having them work as long as they can" he adds.

To find the right machines, Plevins undertook an exhaustive selection process which eventually led to the company abandoning its previous policy of running a Volvo-only fleet. *"We looked at every factor and came to the conclusion that Case was our best option for fuel returns, loading capability, manoeuvrability and durability" says Mr Ashton.*

Plevins quickly formed a close working relationship with local Case dealer Warwick Ward. *"Wood recycling business is highly specialised", explains Mr Ashton. "We went through the spec in detail with Warwick Ward and they met that spec, met delivery times and have been extremely supportive at all stages".*

"We expected the operators to be a bit of a stumbling block, having used the same machines for past 20 years, but they were very quickly on board" he adds. "They were impressed with the better visibility and overall performance, especially when pushing the stockpiles and loading high sided vehicles".

Another deciding factor for Plevins was the rear-mounted engine on the Case machines. *"This meant the weight distribution was better and they don't have to carry a big counterbalance weight" explains Mr Ashton.*

Furthermore, with the cooling system positioned behind the cab, there is also less risk of the engines overheating in the very dusty environment in which the machines work. *"The cooling elements remain clear and the operators don't have to keep stopping work to clean the radiators as they did with the traditional machines" explains Mr Ashton.*

In addition to the two 821 FXR shovels, Plevins has also taken delivery of a new TX130-45 telescopic handler which will undertake general duties about the site. Like the F-Series loaders, the TX range telehandlers are suitable for heavy duty applications, highly manoeuvrable and productive. Its 13 m telescopic boom gives unrivalled lift height and, when equipped with a high tipping bucket, the TX130-45 is an ideal general materials handling machine.

"The telehandler is ideal for our bulk low-density material. We put a large 4m³ bucket on it to deal with chipping operations and we can use it for loading high-sided vehicles if ever one of the loading shovels were unavailable" says Mr Ashton.

"On top of that we can use it for general use around the facility, either for lifting with the forks or, with the rear hitch, pulling the fuel bowsers around."

Since taking delivery of the three vehicles late last year, Plevins has noticed a dramatic drop in fuel consumption at the site, says Mr Ashton: *"We're using far less fuel with the new Case products than we traditionally have."*

Lower fuel consumption not only saves money but also saves time. Capable of working longer on a single tankful, the Case machines need fewer interruptions for refuelling on a daily basis.

Tyre Protection Chains - Providing the Ultimate Advantages to your Operating Process

Do you want to reduce operating costs, decrease downtime and increase productivity? If yes no need to look any further. RUD Chains can help make this a reality with their innovative tyre protection chains and latest technological advances.

Profitable productivity is vital for companies in all sectors operating in such turbulent economic climates, ensuring a high level of competitive advantage is achieved through the quality and price of products. This concept most certainly applies to heavy industries such as quarrying, materials handling and recycling to name a few.

many more. They retain a dedicated approach to providing a complete solution to the companies they work with. Their main objectives are to firstly reduce operating costs, decrease downtime and most importantly increase overall productivity.

A comprehensive installation and maintenance programme is an essential factor in delivering long term benefits from a tyre protection investment. RUD offer a high level of technical advice, support and service for tyre protection projects from start to finish and throughout.

Predominantly RUD provide a product specialist to determine a chain design that meets your



Where loading and hauling is a central component of an operation, optimizing plant availability is the key to success, and this success depends on skilled staff and a rigorous maintenance schedule with particular attention being paid to the tyres. A good plant manager will make certain that both staff and machines are well protected, for without a full set of sound tyres, just as without a skilled operator, a loader or truck is simply an expensive, idle lump of metal.

RUD a leading manufacturer of tyre protection chains have worked alongside many heavy operators across numerous industries such as quarrying, mining, recycling and

specific needs and requirements of your working environment. The correct selection of tyre protection chains is determined by many parameters which are mostly site and application specific. These factors would include issues like machine travel speeds, distances, and abrasiveness of the surfaces.

RUD's tyre protection chains use case hardened alloy chains linked in patented designs to provide a high level of tyre protection and traction qualities. As a market leader in tyre protection chains RUD have a high level of technical know-how and a comprehensive product range.



There are numerous benefits to using RUD's top quality tyre protection chains such as three wear levels to provide a greater wear resistance, sharp edges on the outer surface to increase traction and multiple link designs to suit a wide range of aggressive and low traction surfaces. The designs and benefits vary to each project and specific requirements.



RUD's innovative tyre protection chains ensure that customers in demanding working environments can operate effectively and safely. Working machines in areas with fire and hot slag conditions can be very dangerous and lead to loss of equipment through burnt tyres. With RUD's tyre protection chains they offer specially developed hardened forged wear links which guarantee optimal tyre protection in the use on hot and burning surfaces.

RUD pride themselves in being a market leader in the tyre protection chains market and also being at the forefront of the latest revolutionary technological innovations. RUD's latest advanced innovation is The Chain Monitoring System (CMS). CMS is the first system of its kind to utilise the proven Radio Frequency Identification (RFID) technology in tyre protection chain applications. The CMS enables technicians to electronically capture live service and performance data on site. This then allows the technicians to provide valuable tailored reporting resulting in efficient and quick decisions on optimising machines.

Primarily the CMS provides technicians and operators with a high level of reporting data helping them maximise their tyre protection chains through: increased safety and traction from less tyre change outs, increased machine availability due to reduced downtime, tyre damage and repair. The benefits are countless, one of the most important factors being the reduced operating expenses from lower fuel burn and less tyre replacements.

RUD offer standard and specialised applications to meet the specific demands and requirements of your working environments. As a leading manufacturer and innovative product provider you can be confident in the decision that RUD will deliver top quality products, unrivalled support and technical advice to help meet even the most demanding circumstances.

 www.hub-4.com/directory/743

New building concept: Legioblock®

A. Jansen B.V introduces a simple and highly effective construction system to the UK market: The Legioblock®. Inspired by Lego building blocks for kids, Legioblock® is Lego for adults. By using huge concrete building blocks, walls can be built in minutes and hours as opposed to days or weeks.



The Legioblock® is a heavy weight concrete building block, capable of providing infinite structural solutions. Thanks to the interlocking principle, Legioblocks® are easily stacked and placed without the need of any fixing material. This way, constructions can be built easily and rapidly, allowing complete freedom to expand or modify the construction at any time. The measurement of a standard



Legioblock® is 160x80x80cm with a weight of approx. 2400 kg, however there are a number of additional sizes to choose from.

Legioblocks® are delivered directly from stock, which means very short delivery lead times. The products are produced throughout various locations in Europe including the UK. They arrive on site by lorries and are then lifted into place with a Hi-ab crane and stone clamp. A level and stable foundation is the only requirement for the construction of the Legioblocks®. They are the ideal solution for creating storage bins, retaining walls, partitioning walls and industrial workspaces. Legioblocks® also have excellent sound-proofing and fire resistant properties and can be used for water retention.

Legioblock® is a product of A. Jansen B.V., a Dutch based company with over 15 years experience of producing concrete building blocks. Over the years the Legioblock® has developed as a high quality product and become a very popular solution in Northern Europe for all kind of constructions. The ultimate flexibility and the sheer durability of blocks, make it a highly cost-effective construction system.

 www.hub-4.com/directory/14510

Crushing plant contributes to carbon recycling

The incredible versatility of the Pilot Modular range of crushers was demonstrated recently with the sale of a Pilot Modular/TRIO MJ2436 jaw crusher to waste management specialist EnviroServ Mineral Beneficiation (EMB); a division of EnviroServ Waste Management.

The crusher is being used in an innovative process developed locally by EMB, which is recycling mineral waste into valuable raw material alternatives for its blue-chip clients. This is achieved by recycling waste that would ordinarily end up in landfill. In other words EMB assists their clients to move up the waste hierarchy, and impart savings to their clients through avoiding high landfill costs through the recycling of their mineral wastes.

According to Regional Sales Manager Rasheel Sukdhoe, EMB is using the crusher to size and recycle large volumes of (amongst other streams) carbon and refractory-based wastes from their blue-chip clients and converting it into a low cost alternative raw material.

EMB's operations have made use of Pilot Crushtec's products in the past and when the decision was made to upgrade and increase EMB's crushing capacity, Pilot Crushtec seemed the logical choice.

Rasheel believes that EMB's intervention of converting waste into a re-usable raw material is a sustainable local solution to what has become a global problem.

EMB, with a little help from Pilot Crushtec, has found it!



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Tandem Balers Push Production

Eurokey Recycling Limited, of Hinckley in Leicestershire, has installed two Marathon Nexgen 2R450 Twin-Ram Balers, sourced from UK distributor Blue Group. Working in tandem, the two new baling presses have already proved to be a wise investment, with Eurokey reporting a 60% increase in throughput and a 20% improvement in bale density.

Eurokey Recycling is a well-established and growing company, providing a varied recycling and waste management expertise to industry, commerce, distribution and logistics companies, recyclers and the retail sector. Eurokey is a consolidator and trader of secondary commodities, with a national capability as well as interests overseas. The company not only provides turnkey waste processing but also runs its own fleet of specialist and bulk vehicles for collection of raw waste materials and delivery of processed recyclables to merchant customers. One particularly innovative idea developed by the company is where they provide customers with compact vertical balers and set up a regular collection service, which is a significant benefit for retailers and commercial enterprises dealing with smaller volumes of waste materials - especially packaging. Eurokey has an inside stock-holding facility extending to around 53,000 square feet and a 130,000 tonnes per annum throughput capability, with processed waste materials being comprised largely of plastics (80%), ferrous and non-ferrous metals (15%), with the remaining 5% cardboard.

The Nexgen 2R450 Twin-Ram Baler is the largest in the extensive Marathon range, featuring cutting-edge electronics technology, advanced structural engineering and the highest quality build materials to create one of the most powerful, reliable and efficient machines of its type.

A compression force of 210 tonnes and the full penetration compaction ram ensures maximum bale density and cycle times are up to 24 seconds, depending on the material being baled. Bale weights vary from around 540kgs for lightweight material such as UBC, up to 1350kgs for steel cans. The Nexdoor® multi-purpose door can be used either as a bale separator, bale release or bale clamp and also allows for variable bale widths if required. A programmable controller provides a quick and easy switch-over to accommodate different recycleable materials for baling and the user-friendly Maestro® Colour Touch-Screen features automatic and manual controls, diagnostics and bale set-up functions.

Commenting on his company's new Marathon Galaxy balers, Joe Bisland, Eurokey's Commercial Director said "Buying a baler is a huge decision that you don't have to make often, so it's imperative that you get it right. The Marathon balers are excellent" he continues "because they can process a wide



range of materials, from steel cans and cardboard to films and rigid plastics".

Blue Group is the appointed distributor for the full range of Marathon Twin Ram, Channel and Semi Automatic balers. Well-established and with national coverage, Blue Group is recognised as a leading solutions provider in the UK, with a wide range of distributorships offering the highest quality in recycling, crushing, screening, conveying and shredding equipment. Blue Group provides first-class technical and after sales support for all their product ranges and can also design, build and commission bespoke systems for all the markets they serve.

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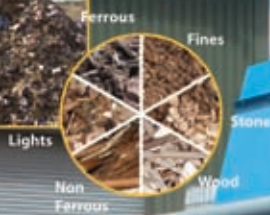
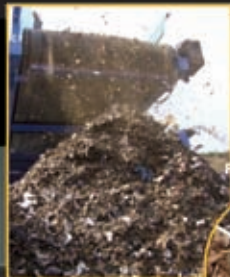
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MB Crusher Bucket



Perfect for on-site crushing of inert materials and the first one of its kind to be introduced on the market, the MB Crusher Bucket is a piece of equipment that works by taking advantage of the hydraulic system of the excavators to which it is fitted.

It has many areas of applications: from building demolitions in general, to the requalification of former industrial and urban areas to the processing of excavation materials, from the earth movement sector to road works, from quarries to mines, from environmental reclamation to applications on rocky soil.

- It crushes all types of demolition materials
- It crushes materials directly on site
- It reduces the use of mechanical pieces of equipment
- It solves the problem of having to dispose of demolition materials by taking them to a dump
- It eliminates all leasing costs
- It cuts down on transportation and management costs
- It is comfortable, simple to use and fast

- Suited for small and large worksites
- It allows materials to be recycled, resulting in significant savings

The size of output materials can be determined within the range indicated in the data sheet provided here below.

IT CUTS DOWN ON COSTS RELATED TO ...

- crushing, in terms of time and energy
- personnel
- disposal and procurement

IT REDUCES TIMES RELATED TO ...

- installation and instant use of the machine
- operations, allowing the crushed material to be reused right away
- crushing, since it can be used directly at all worksites, even small ones

MB S.p.A. offers 4 crusher bucket models, available for a wide range of excavators:

BF60.1: the smallest of the range, for small jobs and small excavators

BF70.2: the second model manufactured by MB, for small to medium-sized crushing jobs.

BF90.3: the legendary model, ideal for excavators with weight ranging from 20 to 28 tons.

BF120.4: this is the largest model of the range, designed for working in large worksites

SCREENING BUCKET MB-S

Perfect for the selection of natural materials, both before and after the crushing phase, the MB-S screening buckets reduce crushing times by up to 60%, consequently allowing you to salvage materials suited to the type of job being carried out and to manage them in the best way possible.

- Primary selection of scrap material, demolition material, filling material for excavations, and material resulting from the reclamation of rocky soil
- Selection of pebbles in waterways
- Cleaning of beaches
- A crucial piece of equipment in all situations where smaller pieces need to be obtained

Available in three models that differ in terms of size and weight, the MB-S screening buckets can be installed on all excavator models.

MB-S14 Screening Bucket

The smallest of the range, suited for excavators weighing from 10 to 20 tons, it is perfect for screening natural materials, both before and after the crushing phase.

MB-S18 Screening Bucket

Perfect for excavators from 20 to 35 tons, it is used to select natural materials (riverbed materials, quarry residue, dry soil)

MB-S23 Screening Bucket

The largest of the range as well as the largest screening bucket in the world: absolutely one-of-a-kind, it can be fitted to excavators from 35 tons on up.

 www.hub-4.com/directory/14417

CRUSHING AND SCREENING EFFICIENCY



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Major Polish tyre recycling plant chose ITS Granulator

ITS has supplied a granulator model ITS170/67 which has been installed as part of a complete tyre recycling facility in the Orzel SA, Poland.

Orzel SA, very much a family business established in 1984 and listed on the Warsaw stock exchange, have been active in the tyre market since 1998 specialising in the following areas; automotive services, wholesale tyres, online sales and the collection and recycling of used tyres.

WIL AG consulting and engineering have been contracted to design, construct and commission this 25,000 ton tyre recycling turn-key facility. They selected the ITS170/67 because of its reduce total granulating function cost, reduced maintenance and operational costs and increased productivity providing increased revenue per hour.

The ITS170/67 is driven by a 160kW electric motor connected via V belts to a large flywheel. This grinder will process 2000 kg/hr of pre-shredded car and truck tyre pieces 20mm in size down to around 0 - 5mm. The special staggered rotor blades geometry offer an extremely smooth and gradual cutting action requiring very low energy consumption compared to traditional straight blade granulators. The maintenance of this machine is extremely simple and quick to carry out.

After the recycling process any steel or fluff textile is further removed leaving a clean ground rubber. A portion of the product is selected by a sieving system and subdivided into various particles sizes to obtain batches with a uniform granular consistency depending on the final destination of the product. A part of the granules around 4mm in size will further be processed down to 0 - .08 mm to be used in other applications.



The ground rubber output, as 2 - 5mm fraction, is used in road surfacing as part of the asphalt mix. This size is also suitable for the production of street furniture and anti-shock pavements used in children's play fields or in running tracks and other sports fields such as tennis or basket courts. The .08 - 2mm fraction is used in the manufacture of soundproofing and anti-vibration panels for the construction industry and under railways to absorb vibrations.

ITS is a dynamic Italian owned and operated company with more than 15 years consolidated experience to the recycling industry, specialising in the design, manufacture and worldwide supply of granulators and other ancillary machinery for the size reduction of plastics and rubber to include other types of material. Recently ITS have signed a UK and Ireland distributorship with Excell Environmental Solutions Limited. Specialist size reduction system suppliers to the plastics, wood and paper recycling industry.

ITS granulator range covers single machines with installed power ranging from 22kW to 250kW to include complete turn-key installations designed to process specific products into granules and powder.

For further information and to discuss your granulator requirements contact Excell Environmental Solutions Limited.

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www.excell-es.com
e:enquiries@excell-es.com

 www.hub-4.com/directory/15128



Gotland's BagVac system cleans up Jersey's new EfW

A new centralised vacuum system powered by a Gotland BagVac has cut the time needed to clean out the Flue Gas Treatment Ducts by 50% at the new EfW plant at La Collette, Jersey. It also makes the regular removal of around five cubic meters of Flue Gas Treatment residue, as well as general housekeeping around the EfW plant, a much easier task to do, minimising the related manual handling issues.

Energy from waste

Being an island with no space for landfill and a requirement to follow the highest environmental and air pollution standards, the State of Jersey has been practicing a refuse, recycling and incineration strategy for nearly 40 years. The Island's combustible solid waste is incinerated at the new La Collette Energy from Waste (EfW) plant which is able to process over 105,000 tonnes of non-inert waste per year. Approximately 60% is household dustbin waste, the rest is shredded bulky waste (carpets, mattresses, old furniture etc).

Once as much of the refuse is recycled as possible, the La Collette plant burns the remaining rubbish using the heat to drive a steam turbine to generate 10MW/Hr of electricity at full production. This powers the new La Collette Energy from Waste (EfW) plant and excess electricity is sold to the Jersey Electricity Company (JEC).

Cleaning out the Flue Gas Treatment Ducts

A regular requirement is to clean out the Flue Gas Treatment Ducts (FGTD) of the EfW incineration plant, for which the original two inch centralised pipe work system was simply inadequate, as the State of Jersey's Waste Management Project manager Ian Coupland explains: "The FGT residue arises from the fly ash being mixed with lime and occasionally steam that has been blown through the boiler passes at specific intervals to reduce soot build up on the heat exchanger pipe work."

"This residue passes along the line, but occasionally the additional steam can make

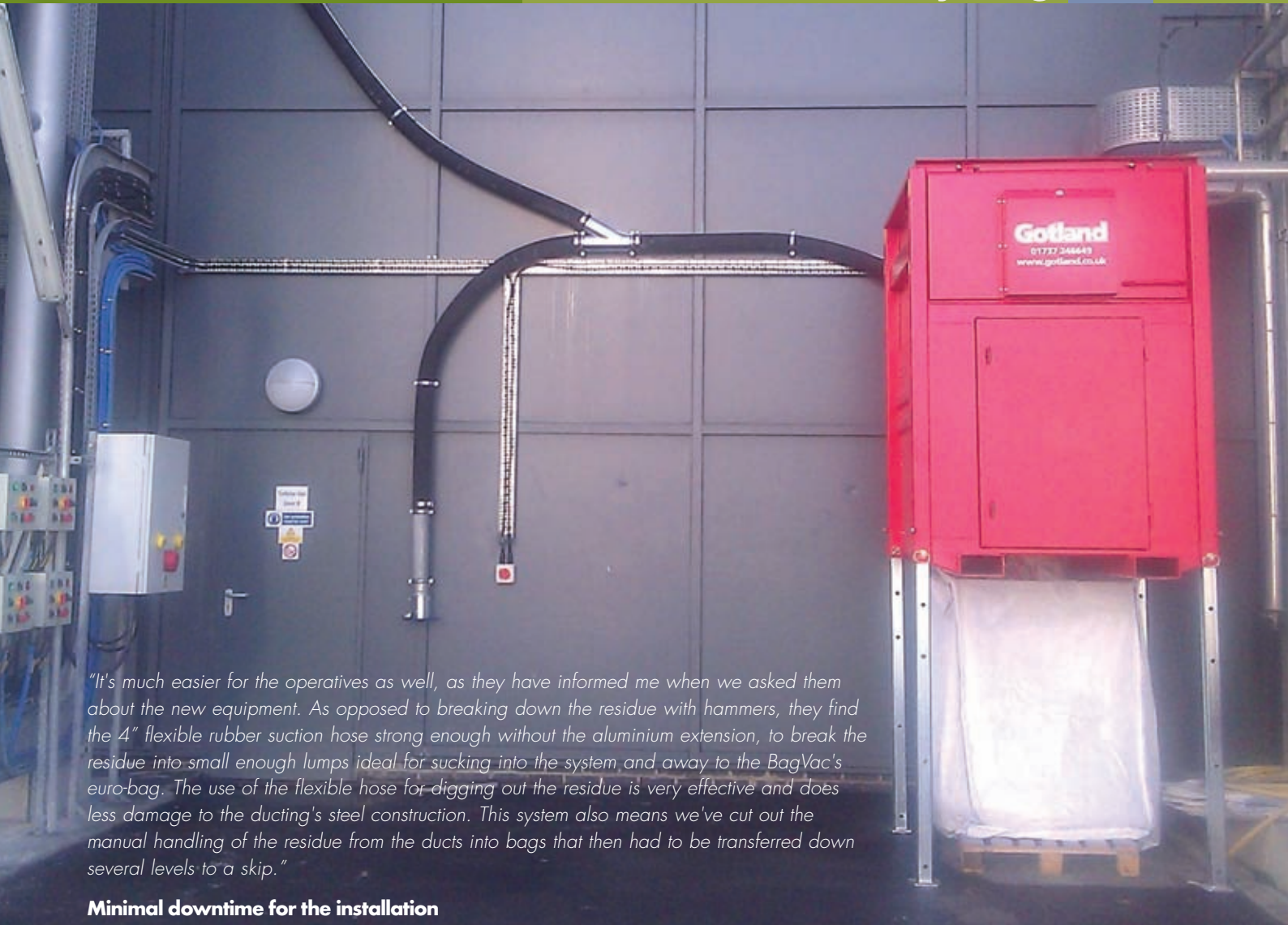
the ash and lime mix damp enough to bind into large lumps that fall out of suspension. This mixture then crusts over like cement and needs to be broken down and removed by the operators working inside the pipelines."

"Unless it was broken down almost to finings the old 2" pipe work was very prone to getting blocked. To clean out the FGTDs our operators need to use breathing apparatus and PPE equipment to ensure safety; understandably it's a very difficult and awkward job with very restricted space and movement. As such we had to find a more efficient solution and the Gotland BagVac in combination with their 4" pipe work system and inlet valves has proven to be just what we needed."

BagVac and centralised system far more efficient, minimal manual handling issues

Ian continues: *"It used to take them approximately 4 days to clear around five cubic metres of FGT residue, a process repeated every 3 to 6 months using two men. Using the new Gotland system it now takes just two days as a whole. The Gotland system works very well - the FGT ducts themselves were cleared in two days and we fired up the boilers again on the Sunday. Some five cubic metres of FGT residue were removed, simply and easily into bulk bags which could then be safely disposed of in a hazardous landfill site."*






"It's much easier for the operatives as well, as they have informed me when we asked them about the new equipment. As opposed to breaking down the residue with hammers, they find the 4" flexible rubber suction hose strong enough without the aluminium extension, to break the residue into small enough lumps ideal for sucking into the system, and away to the BagVac's euro-bag. The use of the flexible hose for digging out the residue is very effective and does less damage to the ducting's steel construction. This system also means we've cut out the manual handling of the residue from the ducts into bags that then had to be transferred down several levels to a skip."

Minimal downtime for the installation

Besides the BagVac system itself, Ian is delighted with the speed and efficiency of the installation work: "Gotland's mechanical installation team did a superb job, very fast, efficient and with the full and correct paperwork. They also did a good job with the wiring and with the operatives' training, so we were able to put the system straight to work on blocked flue gas treatment ducts. An excellent job all round."

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Dig A Crusher Gone to the Dogs

The ability to produce 6F2 material using a 900 Series Dig A Crusher excavator bucket crusher has dramatically cut the disposal costs of hardcore and fines for a transfer station in the Isle of Dogs.

"It's the best bit of kit we've ever bought," commented Colin Phillips of IOD Skip Hire. "We've nearly halved the bill for the removal of fines from site, which has paid for a 22-tonne Doosan excavator that is now dedicated to crushing hardcore."

Based in Canning Town, London E16, next door to the 2012 Olympic Park, the company serves east London from a two-acre site. On average it processes 1,500 tonnes of waste a week, of which 60 per cent is inert and the balance commercial. Approximately, 70 per cent of all material is recycled.

Because space is limited, the company finds it difficult to store hardcore and fines from screened C&D waste. Therefore, it has to have them removed from site either free-of-charge or, in the case of the fines, at considerable cost.

"With the Dig A Crusher bucket attachment we are now able to reduce our hardcore down to 50mm and mix it with fines to produce a certified 6F2 general fill/capping material, which is then supplied to contractors for sub-surface work," explained Colin.



"As space is at a premium, the excavator/attachment arrangement is ideal because it has such a small footprint and as the crusher bucket can be easily detached, we also have the option of using the excavator on other jobs."

The company acquired a 900 Series Dig A Crusher, which has a 0.75m² capacity, two years ago after seeing a demonstration at a nearby construction site in Barking.

An added bonus has been the reliability of the bucket. As Colin pointed out: "There's really nothing to service and besides general wear and tear, quality has not been an issue."

For further information on the Dig A Crusher range, please visit www.digacrusher.com Alternatively you can call 01606 835544 or email info@digacrusher.com

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Impact Air Systems has it under control



Processing domestic waste material in a MRF can generate nuisance dust issues which can create an unpleasant working environment for employees, housekeeping issues and significant fire risks as airborne dust particles come to rest on plant equipment.

Impact Air Systems has vast experience of dust control solutions, enabling us to offer simple

yet highly effective methods for capturing dust at source at conveyor discharge or transfer points. These dust control solutions can be integrated into your MRF using stand alone fully automatic filter systems or incorporated into other centralised pneumatic conveying systems.

The reverse jet filter system offers an effective air cleaning system to remove dust particles from the conveying air stream to well below current COSHH levels. The system also offers significant energy savings, generated by recycling the heated air back into the production area.

Dust recovered by the reverse jet filter system is collected in a bin via a hopper and can be disposed of via a plastic sack. Alternatively, Impact Air Systems also offer a dust briquetter system which allows dust collected to be compacted into a small pellet or briquette. These units can be installed directly underneath the filter unit or via a simple dust conveying system to a remotely located briquetter unit.

Impact Air Systems have successfully resolved dust related issues in a number of recycling processes throughout the UK and in several countries overseas including dry commingled recyclables, plasterboard / gypsum recovery, plastic recycling, WEEE waste and C&D recycling operations.

In association with Impact's range of air based recycling solutions including density separation such as air knives and zigzag separation, Glass clean up, FilmVac and general material conveying, dust control completes the picture, ensuring an energy efficient system which complies with even the most stringent environmental standards.

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MHEA is pleased to announce the Programme for the 2012 Bulk Handling Conference.

Following the success of last year's conference MHEA's Bulk 2012 will be returning to the highly attractive Forest Pines Hotel in North Lincolnshire, with its superb facilities for conferences, business and leisure its proven to be the ideal venue.



Programme

Wednesday 16 May

Session 1

- Washing iron ore reserves to ensure greater efficiencies in steel production
- Measuring and Improving Dry Bulk Terminal Performance
- Waste Management – The Challenge to Industry
- Power Station Wood Pellet (Biomass) Inclusion

Session 2

- An approach to materials handling for a very large industrial complex in Mongolia
- Innovative Conveyor Belts
- Screen Media for Hard Rock Processing and Fines

Thursday 17 May

Session 3

- A Sandwich Delivery
- Conveyor Guarding
- Peculiarities of Integrated Fire and Explosion Safety Concepts for solid fuel co-firing power plants
- Dr. Harold Wright Memorial Lecture

Session 4

- Biomass & Waste Pelletizing Technology
- Fuel Feed Systems for Biomass Power Stations
- Handling Characteristics of, and Equipment Requirements for, Biomass and Waste Materials: Raw Versus Processed Materials

Session 5

- A Predictive Maintenance Approach to Plant and Processes
- Development of a Software Algorithm for Management of Wear in Pneumatic Conveying Pipelines
- Clydeport – Moving forward with new conveyor technologies

Session 6

- Bulk out-loading with the Dust Suppression Hopper - UK Case Studies and economics
- Loads on belt feeders
- Aero Tech – A Superior Vacuum Bonded Ceramic Wear Resistant System

Gala Dinner & After Dinner Speaker Wednesday 16 May

Including after dinner speaker John Stiles, a very original and funny speaker with a great emphasis on voices and impressions. His father being the 1966 World Cup winning and former Man Utd legend Nobby Stiles.

Golf Tournament Friday 18 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.



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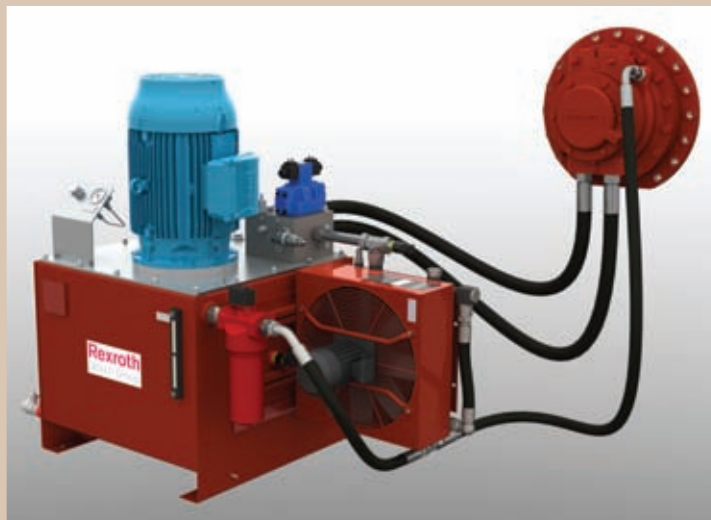
Rexroth, the drives and controls division of the Bosch group is leading the way in the development of innovative products and technology, providing customers with advanced and reliable solutions for their application needs.

For high torque drives Rexroth provides a hard to beat solution. The Hagglunds motors combined with the low power drive unit (LPDU) has been specifically developed to offer a highly competitive variable speed drive for high torque but low power applications.

The Hagglunds motor provides full torque throughout the speed range with high efficiency. The LPDU provides a high quality low cost system to complement the drive motors in power levels up to 50KW. This suits many applications and therefore provides a new opportunity to get the Hagglunds drive solution and benefit from all the advantages without a high investment cost.

Direct hydraulic drives make it simple to work across a range of applications in bulk materials handling.

The required torque demands a specific drive motor from the extensive range available in



addition to a standard drive unit for the speed range required and the installed power needed. Apart from three connecting pipes, that is all that is required for a successful installation.

With direct hydraulic drives, gearboxes are not required and the motor mounts directly on the shaft to avoid alignment and foundation issues. The electric motor runs continuously with drive control handled by the hydraulics. This means that there are no complex electronics which might be problematic in poor or tough environments. Hagglunds drive systems are actually operating in some of the worst operating conditions without problems. The drive motor is maintenance free and the drive unit requires only occasional filter change and oil inspection.

 www.hub-4.com/directory/372

Wear Protection Solutions that Deliver Longer Plant Life, Improved Efficiency and Reduced Maintenance Costs

Kingfisher Industrial is an international manufacturer and turnkey supplier of process plant and equipment incorporating metallic, ceramic and polymer wear protection systems.

With over 30-year's experience of combating the effects of sliding, friction and impact induced abrasion in bulk handling plant, they have saved industry millions of pound in repair and replacement costs. Kingfisher's wear protection systems are applicable to all areas of bulk handling equipment used to process, convey or store materials. Equipment such as cyclones, valves, bunkers, conveyors and pipework all benefit from being protected against the cyclical effect of handling abrasive materials.

Kingfisher's wear protection systems effectively address the ever increasing dilemma of maintenance of equipment v continuity of operation. They offer the key benefit that they can be applied at any time in the life of a bulk handling system - and there use can often be selective dependant on operating criteria such as conveying speeds, volumes and the type of media handled. Consequently, it is often the case that protection need only be applied to areas of plant that are most vulnerable to wear, reducing upfront costs and improving ROI for the system user.

Users of wear protection systems can benefit by a factor of 5 times their initial outlay, with many installations providing wear life of up to 20-years. The benefits of protecting plant can be threefold: in addition to protecting against wear, the low friction nature of the lining material also reduces energy usage and allows a greater volume of material to be processed.

 **Kingfisher**

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CDE Global

Our Vision - To be the #1 washing Equipment Company in the world

Unique - A commitment to the science of washing ensures unrivalled knowledge and expertise

Bold - Constantly challenging assumptions to deliver increased performance and efficiency

Original - A track record in the delivery of game changing washing equipment to the global market

CDE will be delivering a presentation at Bulk 2012 concentrating on the pioneering systems developed for the washing and beneficiation of iron ore to produce efficiencies in steel production. The presentation will be delivered by Peter Craven and will focus on the numerous applications for these new iron ore processing systems and the successes enjoyed to date in India. These systems have significant potential for application in other major iron ore producing countries in Australasia, Latin America and Africa due to the proven ability to significantly increase the Fe value of iron ore while also successfully removing a number of contaminants which are the cause of inefficiencies in steel production largely due to unnecessary energy use.



CDE

"Committed to engineering excellence"



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Schenck Process

Schenck Process is one of the world market leaders in conveying and process technologies. With 33 locations around the globe and more than 2800 employees, the company provides innovative solutions used in the cement, steel, non-ferrous, chemical, plastics, food, pharmaceuticals, mining and power generating plants.

Clyde Process Pneumatic Conveying and Injection and Redler Mechanical Conveying are part of the Schenck Process portfolio of brands that together with high performance MAC air-filtration and centralised vacuum cleaning systems provide market leading technologies to change the processes of clients worldwide to gain greater efficiencies with very high levels of reliability.

In power and heavy industries the Clyde Process, Redler, Mac Process and Schenck Process brands all have extensive experience of working with clients and consultants to design systems that convey, inject, blend, screen, weigh and control the flow of materials in the production process.

With probably the largest specialist conveying knowledge in the market for testing the flow of materials, the Schenck Process group are able to advise on the best method of handling a wide variety of materials based on years of experience and application expertise. The material test facilities based in Europe are amongst the best in the world and are used extensively by clients to evaluate their new product and process developments.

The name Schenck Process is synonymous throughout the world with process expertise and well-engineered technology for the key processes of weighing, feeding, conveying, screening, automation and air filtration technology. Living up to our claim that "we make processes work" across all industries.



www.hub-4.com/directory/758

schenck process



Content Level Measurement with Capacitive Measurement Technology

The perfect man/machine relationship is the effective management of scarce resources. This presents a challenge on a daily basis for plant manufacturers and producers. In the area of raw material handling, UWT makes an important contribution:

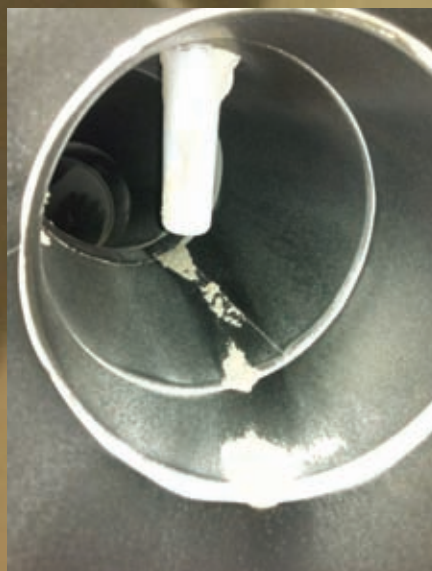
Is Physics boring? If you don't take advantage of the knowledge and don't put physics to good use, then maybe. However, the opposite proves to be the case in the matter of the principle of capacitive measurement. The function of the capacitive switch is based on the change of the capacitive value depending on the type of filling material. A capacitor is formed when a level sensing electrode is installed in a vessel. The metal rod of the electrode acts as one plate of the capacitor and the tank wall acts as the other plate. As the level of the solid rises, the air surrounding the electrode is displaced by material having a different dielectric constant. A change in the value of the capacitor takes place because the dielectric between the plates has changed. The sensitivity of a capacitive sensor circuit can vary greatly and depends on the dielectric constant (DK value), the sensor diameter, the material and the approximate mass of the material and the mounting position of the sensor. This can be adjusted by a potentiometer or dip switches.

The new Capanivo (CN) 4000 from UWT is suitable for all applications in bulk materials including high temperature, pressure and situations of material build-up such as flour, grain, cement, pellets, powder or coal. The device is available with the housing made of PA6 plastic or aluminium and suitable for use in temperatures ranging from -40°C and $+180^{\circ}\text{C}$. A weather protection cover provides additional protection from powerful environmental factors such as rain, condensation, excessive heat from solar radiation and extreme cold in winter.

The device is available for supply voltages of 19-230 V AC and 19 to 50 V DC. Plus the CN4000 is suitable for all materials of a dielectric value of > 1.5 . Through the ATEX and IEC Ex approvals, the device can be installed in dust and gas explosive environments.

The advantage of capacitive measurement is that it is a precise and reliable method of point level detection regardless of the varying material properties that are found in all applications across all industries. And crucially, the capacitive principle can be applied both in solids and in liquids.

UWT has overcome the problem of the material build up and caking on the device by the use of UWT's active shield technology. Thus the materials build up and caking is compensated for and ensures the accurate level limit detection by the device.



Other advantages of the capacitive measurement system are:

- An exposed/free standing earthed contact is integrated into the thread. This ensures that the earthing is installed automatically via the metal tank.
- The adjustable delay circuit prevents vibrating switching and allows a hysteresis (the lag in a variable property of a system) of the output signal.
- Multiple shaft lengths allow for complete customisation of the device according to the application's requirements. The CN4000 is available as standard (CN4020), with extension shaft (CN4030) or with extension rope (CN4050).
- The system offers a cost-effective solution due to the excellent price-performance ratio.
- Precise, reliable level limit control, even with varying material attributes, Capanivo is ideally suited to applications where the product will stick to the measurement device due to the design of the Active Shield Technology.
- Easy installation due to pre-setting, no calibration post-installation.
- Process temperature to 180°C.

Background information on UWT:

For the past 35 years, UWT has been delivering level measurement technology for bulk solids to the world market. Target customers are silo manufacturers and plant operators and the end users in a wide range of industries such as food, grain, plastics, cement, chemicals, pharmaceuticals, etc. Over the years, UWT's core expertise has remained the same - the technical development and production of ingeniously simple sensors for level measurement and monitoring in bulk and solid materials.

Companies around the world value and appreciate the customised solutions for their applications, the easy handling, complete reliability and durability of the UWT devices.

Particular focus is placed on the global distribution and sales of our measuring devices. Thus the company has been able to maintain its course of expansion into new markets from the headquarters in Germany. In 2009 a sales subsidiary in the UK was established. As well as offices in China (Shanghai), the USA (Memphis) and India (New Delhi), there is a second production facility in Malta. Plus, UWT is represented in over 50 countries via a network of exclusive distributors and resellers.

"For us, our market approach is our systematic orientation towards quality, reliability and the needs of our clients." Says Uwe Niekrawietz, Managing Partner of UWT GmbH. "Today we can say that the revised organisation structure at UWT plus the strategic orientation to a seven year economic plan will set the framework for the company's sustained path of success. We will continue to take advantage of new opportunities to further strengthen our international presence and expand our activities in the global market."



World First - Universal Voltage Option for ROTONIVO Level Controls:

Rotating level controls from the Rotonivo range 3000/6000 and 4000 have, since 2011, been available with the option of universal voltage electronics, thus eliminating the requirement for a manual voltage selection jumper. This prevents accidental damage to the electronics of the unit caused by the selection of incorrect input voltage. The micro-switch for the motor position is entirely corrosion, wear and tear resistant because the activation is carried out via a close proximity magnetic pick-up. Manufacturers and suppliers of storage systems can now order one paddle switch, under one part number, to meet the individual electrical requirements for all applications in all countries.

EHEDG Certification for Rotonivo Paddle Switches and Vibranivo Vibrating Forks:

UWT's paddle switches from the Rotonivo range and the vibrating forks for the Vibranivo range are available with EHEDG approval (Document 22 for dry particulate materials). The principal goal of EHEDG is the promotion of safe food by improving hygienic engineering and design in all aspects of food manufacture. EHEDG actively supports European legislation which requires that handling, preparation, processing and packaging of food is done hygienically using hygienic machinery and in hygienic premises (EC Directive 2006/42/EC for machinery, EN 1672-2 and EN ISO 14159 Hygiene requirement). Paddle switches with a flush wall mounting flange with no dead spaces or gaps, high grade steel (316L) process connections and resistance to abrasion are some of the specific criteria set by EHEDG that are met by the UWT Rotonivo and Vibranivo units.

Latest Developments in the Vibranivo Range:

The renowned vibrating sensors from UWT can be used as demand, full or empty indicators within silos. They are particularly well suited for use in all fine-grained and powdered materials of 5 g / l to 50 g / l.

The Vibranivo range of sensors is suitable even in extreme conditions such as high mechanical stress, or process temperatures from -40°C to +150°C and pressure ranges from -1 to +16 bar. The surface roughness of the steel shafts of the sensor forks of 0.75 microns is uniquely designed to prevent the build up and coating of the device by the material.

International approvals according to the latest IEC 60079 series of standards further expand the range of applications for this device. Therefore, UWT continues to deliver long-lasting and maintenance free sensors to provide the best solution.



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Rossi making torque mobile

Proven mobile aggregate industry solutions



Rossi Product Features & Services

- * Wide product range proven and tested in the most arduous customer applications
- * Improved efficiency with energy saving as a key design influence
- * Innovative Technical solutions to satisfy customer applications
- * Latest technology employed in the production of the complete product range
- * Web based Comprehensive Customer portal **Rossi for You**
- * Local Customer support, Local service and Local stock holding



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4B SpeedMaster™ - Speed Switch Sensor Testing & Calibration Device

4B Braime Elevator Components Ltd., a worldwide manufacturer of material handling and electronic components for bucket elevators and conveyors, has developed a new maintenance tool that makes the testing of 4B speed switch sensors quick, easy and accurate.

The SpeedMaster™ is the only device that accurately tests the calibration of speed switches and their alarm and shutdown underspeed relays.

The SpeedMaster™ operates in two modes; input mode provides the user with the machine's actual running speed, and output mode allows the user to test the speed switch at set underspeed trip points for real time verification of the monitoring system's alarm and shutdown functions.

There is no need to remove the sensor from the machine shaft or change any system connections in order to use the SpeedMaster™. Maintenance and safety personnel can now quickly, easily and accurately test 4B speed switches during recommended inspection schedules.

The new Patent Pending technology of the Speedmaster will change the way plants use underspeed monitoring systems and will make the plants safer.



www.hub-4.com/directory/2281



New Return Roller Delivers Easy Conveyor Idler Replacement

In a move aimed at delivering superior rolling support for conveyor belts, a global leader in conveyor technology has introduced a new return roller. The new design is a track-mounted, pivoting, return-side idler that allows service and replacement from one side of the conveyor. The EVO® Return Roller's track-mounted assembly utilizes 1-pin quick change functionality to make service fast and easy. As a result, the roll can be replaced by one person in much less time, with greatly minimized injury risk.

EVO® Return Rollers help improve safety and prevent injuries by minimizing suspension and heavy lifting, while reducing the time and resources needed for service or replacement. Space limitations and access constraints are typically not an issue, as the idler roll can be serviced from one side of the conveyor.

The return roller also features an integrated fine adjustment to completely square the belt. The roll itself is 1-piece, and the assembly includes a 3-piece adjustable hanger bracket and swivel/pivot component, which allows the roll to be swung away from its support prior to removing the entire assembly.

Return rollers can be employed anywhere there is belt sag on the return side of the conveyor, or in situations where there are seizing issues that require frequent roll replacement. They are well suited to high-angle conveyors with difficult access and confined-space applications. Fitting any belt size 24 in. - 72 in. wide, the 3-piece hanger frame adjusts to accommodate the different belt widths. The universal bracket fits most major idler manufacturers' designs, and the return roller conforms to the CEMA rating for idler belt speeds. Specific launch dates of this new product may vary slightly, depending on the country / region.



www.hub-4.com/directory/534

DUO Strengthen Product Line with Terex Washing Systems

Newly formed Terex Washing Systems (TWS), which has replaced the washing equipment offered by Terex's Powerscreen and Finlay brands, have appointed DUO Equipment as their dealer in England and Wales.

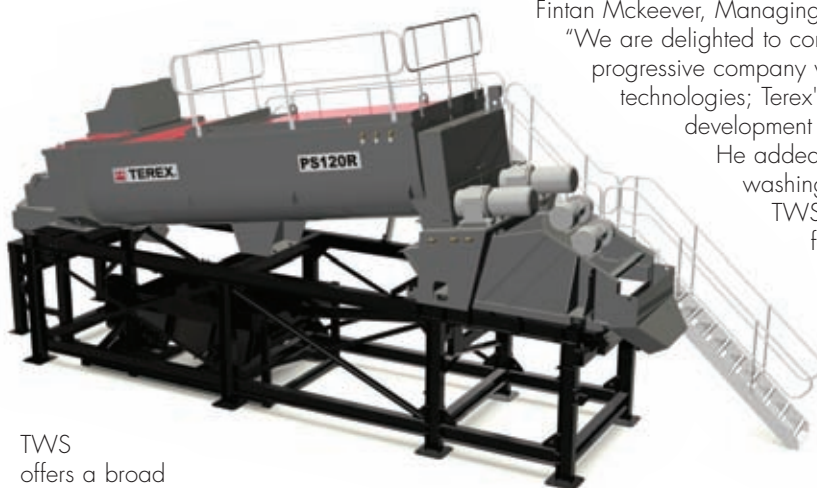


In recent years the washing market has seen significant developments such as stricter specification compliance; increased product recovery level requirements; growth in the aggregate recycling business, and the increased requirement for water treatment technologies. DUO have consistently met the demands of the market and will continue to do so with the support of TWS.

programme. Supported by a dedicated engineering, sales and application team, TWS will quickly become one of the global leaders in mineral washing equipment." Commenting on DUO's appointment, Sean added "Asking DUO to be our representative was an obvious decision as they have spent many years as the leading washing dealer of Powerscreen's global dealer network. Their application experience in not only washing but also crushing, screening and water treatment, as well as the support they receive from their manufacturing division, means that TWS products will part of the turnkey package that DUO offer."

Fintan McKeever, Managing Director - DUO Equipment, commented "We are delighted to continue our association with Terex. We're a progressive company who welcome new products and technologies; Terex's dedicated washing focus will allow further development of an already impressive product range."

He added "At DUO we strive to offer the best washing solutions in the industry, a vision shared by TWS, so our close working relationship will facilitate product development in line with the market's requirements. Our customers can look forward to benefiting from innovative, robust and efficient products which will take the washing market forward and set new standards."



TWS offers a broad product portfolio, including; sand wash and fines recovery plants, log washers, hoppers, feeders, conveyors, de-watering screens, static screens, mobile, static and modular rinsers, as well as the addition of combination plants and water management systems.

Sean Loughran, Global Product Line Director for TWS states: "Utilisation of proven Terex washing technologies and a strong focus on R&D will drive our new product development

underway with new product development, although the official launch is not until this year's Hillhead exhibition in June. DUO and TWS will be exhibiting together at the show and on display will be the latest version of the Aggwash - the AW 60-2, which incorporates a twin grade sand plant, and the new FM 200C sand plant. Both companies extend their welcome to all those in attendance (Stand H9).

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HILLHEAD
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DOOSAN



Finedoor launch a JV in the United Arab Emirates

Finedoor has announced that it has signed a definitive agreement with a local sponsor to form a new joint venture company in the UAE. The new company - Quarry Tec Industries LLC which will operate from Dubai, is strategically placed to service the construction, recycling and quarrying industries in the Emirates and wider Gulf region.

Under the new agreement the new chairman, a prominent local businessman - Ali Ahmed Bin Huwaidi will work with leading UK Quarry and Recycling solutions company - Finedoor, to offer project support, engineering services and spares from the new facilities to companies in the Emirates and wider Gulf region.

Extensive experience:

Mr. Ali Ahmed Bin Huwaidi brings extensive experience to the business from his involvement in industrial engineering and aggregate crushing applications within the region. Equally, with over 30 years' experience in the Middle East, Finedoor has a wide knowledge of the UAE having successfully completed many major projects for high profile companies in the region.

Jim Blanchard - Commercial Director- Finedoor, commented, "This new joint venture is an investment which reflects our commitment to the region which we have worked in since Finedoor was established in 1984. With a large base of customers who we regularly trade with, it made common sense to take this step to further improve our offering to them.

Additionally, we shall also look to increase our product portfolio in the Middle East over the course of next few years, which will include long term agreements with companies, such as Harpscreen in the UK."

The new Quarry Tec (1000 m²) facilities have been designed to facilitate office accommodation, storage facilities and a large workshop. The new company operates with a team of qualified engineers and with an Arabic speaking, General Manager (Essam Abdulsalam). Quarry Tec will maintain an extensive range of parts including a full range of vibrating screen mesh, screen and crusher parts etc.

Currently, Quarrytec is completing a project to construct a major industrial recycling plant. The equipment supply includes a mobile crusher, material handling equipment, Eddy Current Separator and an Enviroflo dust collection system which is currently being shipped from the UK to Dubai for assembly on-site.

The United Arab Emirates (UAE):

Established in 1971, The United Arab Emirates (UAE) is a federation of seven independent Emirates:

- Abu Dhabi
- Ajman
- Dubai
- Fujairah
- Ras Al Khaimah (RAK)
- Sharjah
- Umm Al Quwain

It is located close to the entrance of the Arabian Gulf on the south eastern corner of the Arabian Peninsula. Due to its location at the centre of the world's major trade routes, the UAE serves as a major shipment destination for trade and commerce for all major industries, across the US, Europe, Asia, Africa and the Middle East. The total area of UAE is approximately 83,600 square kilometres and its capital is Abu Dhabi.



www.hub-4.com/directory/914

INTRODUCING THE **NEW** 684 INCLINED SCREEN!!

The Terex Finlay 684 is a compact easily transportable machine that offers operators rapid set up and tear down times. The **NEW** screenbox features three large 4.3m x 1.7m (14' x 5' 7") inclined screens giving a large screening area of 236ft² to provide efficient screening and high capacity. The screenbox features quick wedge tensioning, access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes. All four discharge conveyors are adjustable and hydraulically fold for transport. The fourth product 'oversize plus' conveyor has variable tilt and side slew to accurately discharge material for recirculation and stockpiling.

Features:

- ▶ **NEW** triple deck 4.3m x 1.7m (14' x 5' 7") screen with full catwalk access.
- ▶ The fourth (oversize plus) conveyor provides variable tilt and slide slew capability to accurately discharge materials for recirculation to crushers or for stockpiling.
- ▶ Maximum utilisation of three 4.3m x 1.7m (14' x 5' 7") decks provides ultra-efficient screening capabilities even at small aggregate sizes.
- ▶ A combination of quick wedge tensioning, convenient access holes and hydraulic tensioning on the bottom deck ensure mesh set up and change out times are kept to an absolute minimum.



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Rossi UK to launch new series planetary reducers to UK market at Hillhead 2012



Rossi UK a division of Habasit Rossi Ltd will formally introduce the newest range of Planetary gear reducers and geared motors at the upcoming Hillhead exhibition says Clifton Bower the General Manager of Rossi division. "This follows closely on the Global launch due to take place in Hanover in April this year " The launch is the final step in the process as the company is investing in tooling and stock which will enable the UK operation to assemble from modular components and significantly improve delivery for its growing customer base. The company will also exhibit a comprehensive product range including its G05, A04 geared motors as well as servo precision geared motors.

The main design criterion for the new planetary range is to increased performance compared with the previous EP02 series of Rossi Planetary units, using where possible the same dimensions but enhancing the commercial advantages for the end user. This was made possible due to enhanced calculation of every mechanical component, specifying high quality materials and state of the art machining through every process, the design took into account the latest available lubricants, which could reduce friction and extend service life of the gear reducer.

The new planetary range was initially launched in 2010. The first phase included 9 sizes with a maximum torque capacity of 21,200Nm and now the range will be extended by a further 14 sizes with a torque capacity of 250,000Nm. The Italian parent Rossi SPA, is currently designing the range to be extended even further.

The range was designed, such that the increase in performance between one size to the next is 40%, compared to the 60% performance found in the current EP02 Rossi range. This means that the new range is generally 1.18 times closer to adjacent sizes when compared to the main competitors. This allows the product to be placed between current sizes on the market which we believe gives us the ability to select a product that is more cost effective without compromising performance.

One of the design changes of the high speed gear trains is the use of full complement roller bearings without an internal race and runs directly on the shaft, instead of the traditional needle roller bearing. This was done to increase dynamic load capacity. The critical factor

here was the "roughness" on the roller race way on both the shaft and planetary gear. Due to the state of the art machining process this specification is limited to a $Ra = 0,2 \div 0,3$. Generally the competitors would use a RA value of 0,4.

"The adoption of roller bearings instead of needle roller bearings increases the dynamic load capacity, but reduces the static load capacity; however, this does not represent any problem as the static breakage limit of gear reducer is never represented by the bearing." Says Lionel Gibson the Technical manager of Rossi UK. "The added advantage of reducing friction and using this bearing configuration is that the range is more efficient and thermal powers are increased. This has traditionally been a problem limiting the use of planetary reducers in many more applications. The Oil flow passages are also widened allowing for greater oil capacity and increased flow"

The output design takes into account all the relevant and current configurations such as cylindrical shaft with foot or flange design as well as hollow shaft shrink disc, keyed or splined shafts. Rossi UK will have a comprehensive range in stock and will be able to meet most requirements from stock. Should the reducer require a component that is not in stock, the group has access to stock globally such as Italy, Spain, America and even as far afield as Australia.

Rossi geared products have a strong reputation for excellent quality and the group has recognised that customers continue to demand greater value for their money. As such the focus is to ensure a greater competitive position is achieved through the improvement of the Operational structure as well as the development of a local Technical department in order to provide complete technically designed solution tailored specifically to each customer's application within the time constraints set by our customers.

Rossi has established a strong track record in providing tailored technical solutions for a wide range of applications, such as Material Handling Conveyors, Mixers & Agitators, Quarrying, Mobile Aggregate Machine, and Recycling centres and believes that the company is well placed to develop the market through investment and focus in key areas.

"Further investment will continue through 2012 and beyond with the development of customer portals such as the "ROSSI FOR YOU" and "ROSSI SOLUTIONS" portal and the launch of a new simplified and updated website" Says Clifton Bower . "These tools will enable our customer to review the status of their orders in real time along with 3-D drawing, download capability, order history and many more tailored functions. The launch of this portal is expected in Q3 of this year."

Rossi UK has an inventory value in excess of £1.0 million comprised of the Company's comprehensive range of electric motors, brake motors, gear reducers and gear motors. Our stock profile includes more than 10,000 assembled gear units and electric motors allowing for immediate dispatch throughout the UK and Ireland. Habasit Rossi can offer gear units with a torque capacity of 22,000Nm from stock in the UK and gear units up to 800,000Nm from stock held in Italy.

The Rossi UK subsidiary was established in the Midlands nearly 25 years ago and has set ambitious growth objectives for the future. This growth objective has been fully supported through Rossi SPA, Italy where over the last 5 years the company has invested Euro 75 million in new machinery, production facilities and staff to meet the growth trends as the group expands its global footprint.

The Hillhead Exhibition will allow the company to showcase some innovating designs and will be in the main Pavilion (P71) For further information on the new range of Planetary reducers please visit our stand.



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New Doosan DA30 Articulated Dump Truck

Building on the success of the popular MT31 model which it replaces, the new Doosan DA30 articulated dump truck (ADT), which has a payload of 28 metric tonne, offers many new features to meet customer demands for increased power and performance, easier operation, increased fuel efficiency, enhanced driver comfort and faster travel speeds.

Performance, productivity and fuel efficiency

Driven by the 5-cylinder Scania DC9 Stage IIIB compliant diesel engine with a gross power output of 276 kW (375 HP), the DA30 offers an 8% increase in engine power compared to the MT31. In combination with the greater engine power, the DA30 also has 30% more gross torque (1873 Nm at 1300 rpm), to produce the powerful rim pull required to work in extreme hauling conditions.

The increased engine power is combined with SCR technology for 'best-in-class' fuel consumption with a higher top speed of 58 km/h (34 mph). Contributing to the overall 8% reduction in fuel consumption* is the new ZF transmission offering 8 forward and 4 reverse speeds. The fully automatic transmission with smooth Tiptronic gear-shifting (both automatic and manual gear functions are available) allows the operator to concentrate on working conditions and improves the transfer of power from the engine to the wheels.

As well as permanent 6-wheel drive, the DA30 also has a free-swinging rear tandem bogie designed to ensure that all 6 wheels are in continuous contact with the ground, enabling the truck to operate on very rough and soft terrain.

The articulation hinge is positioned behind the turning ring to provide equal weight distribution even during maximum turning and ensure full contact between the tyres and the road surface.

The sloping rear frame enhances the stability of the truck thanks to its low centre of gravity and allows fast and easy tipping, even in the most demanding conditions.

Like its predecessor, the DA30 features an independent front suspension (there is no rigid axle), a unique feature of the Doosan range, which allows for free

movement on one side, without movement on the opposite side, giving maximum ground contact and shock absorption.

Like all Doosan ADTs, the DA30 features a powerful engine brake and hydraulic transmission retarder as standard. The air-cooled multiple disc brakes on all wheels offer long service life and sealed protection from the environment.

Quality and reliability

Incorporating over 40 years of expertise in the ADT market and using quality components from world-class suppliers such as Scania, ZF, NAF, Parker and Rexroth, the new DA30 is part of a new generation of ADTs from Doosan optimised for extreme off-road performance.

Operator comfort and convenience

The DA30 has a new cab providing more space and improved visibility for the operator, 'best in class' noise levels and a fully automatic climate control system. For easier operation, Doosan has introduced new electronic systems and simplified fingertip controls with a digital display of all desired machine functions.

Maintenance and service

For routine maintenance and service work, the cab can be tilted backwards to provide easy access to components. A fully automatic central greasing system and rear view camera are standard equipment.

One-stop shop solution

The new articulated dump trucks complement Doosan's wide range of excavators and wheel loaders, allowing Doosan to offer a one-stop shop solution for equipment to excavate, load and transport all types of materials. All Doosan ADT and heavy equipment products are supported by flexible financing packages from Doosan Financial solutions, offering 'tailor-made' solutions for purchasing Doosan products.

The new range of ADTs is supported by a regional sales and service operation with strategically located parts depots to service a worldwide network of Doosan dealers. All the depots have fully trained Doosan service and parts specialists to support the dealer and ensure the customer experiences maximum uptime from their machine.

For more information about Doosan construction equipment, visit the website: www.doosanequipment.eu

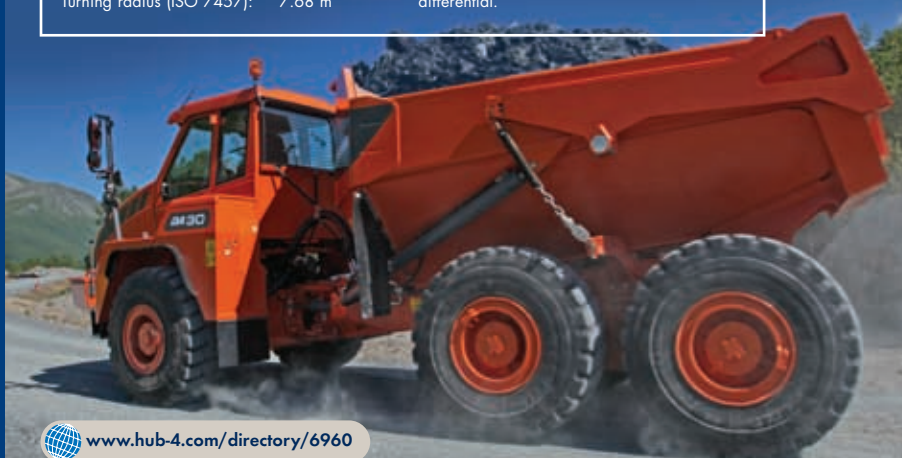
Brief specifications for Doosan DA30 articulated dump truck:

Body volume (with tailgate):	18 m ³
Gross weight (heaped):	50900 kg
Net weight:	22900 kg
Payload:	28000 kg
Load over height:	2.946 m
Length:	9.488 m
Width:	2.990 m
Height:	3.53 m
Turning radius (ISO 7457):	7.68 m

Travel speeds: Forward -	58 km/h
Reverse -	15 km/h
Gross torque:	1873 Nm at 1300 rpm

Engine: 5-cylinder SCR Scania DC9 Stage IIIB diesel engine, 276 kW at 2100 rpm, with engine brake.

Transmission: ZF EP370 countershaft with hydraulic retarder and front mounted differential.



www.hub-4.com/directory/6960



Another high quality, versatile concrete plant from Rapid International

Rapid International Ltd have recently supplied a new, bespoke batching plant to Skene Group at Soutra, Midlothian in the UK. This plant, housing a 3m³ pan mixer, has been designed to operate in sub zero temperatures with all pipes heated and lagged and with the main water storage underground.

Skene Group had very exact specifications for the plant design to ensure maximum output of concrete during any adverse weather conditions. Rapid International were only too happy to accommodate their requirements. Group Chairman Mr. Donald Skene said "We spent some time looking at plants manufactured by Rapid International and visiting their factory. They fully understood our requirements and incorporated all of the features that we required."

Each of the aggregate bins on the plant are discharged using belt feeders, this prevents the malfunctioning of helmet doors in cold weather and enables the accurate measurement of moisture content using Hydronix probes. The main benefit of this feature is that it allows the batching plant to dispense the accurate required water without any need for visual slump checks and therefore significantly increases the output of the plant.

The batching plant has the additional features of a moving hopper which allows the plant to be flexible for the production of other concrete products in the future. It also has a moving flume to facilitate the collection of concrete by smaller trucks and trailers.

At the heart of the plant is the Rapid R3000 Pan mixer, with an output of 3m³. Skene Group specified two discharge doors on this mixer and this allows the next truck to already be in position so that the plant can work efficiently and continuously. Since installation of the plant, there has been a significant increase in business from the Soutra Quarry for the Skene Group.

The batching plant itself is controlled using the PIL Dynamix System. This system is one of the most efficient and versatile systems on the market and allows the Skene Group Management to access and monitor all of the production data. It also provides total back-up from a laptop computer. The plant also has three 100 tonne silos installed which provide additional cementitious options.

Joint Group Managing Director Mr. Darren Forrester stated "We considered several batching plant manufacturers and are very pleased with the plant chosen from Rapid International. The batching plant has performed reliably and accurately and we look forward to a long relationship with Rapid International."

The Skene Group was established in 1968 and have a variety of high volume readymix concrete plants, capable of producing in excess of 1000m³ each day. The company is now recognised as one of the UK's leading independent operators in the construction supply sector.

Rapid International are based in Tandragee, Northern Ireland and are one of the leading concrete machinery manufacturers in Europe. Accompanying their portfolio of concrete mixers, they also supply mobile batch and continuous mixing plants to companies across the globe.



Hewitt Robins design, manufacture and install a Screen in just 4 weeks!

Hewitt Robins have recently completed a turnkey project to replace a failed Niagara screen at Lafarge Whisby within a 4 week timescale.

The existing Niagara screen was non-repairable so delivery of a new screen in the shortest timescale was very critical. The new Hewitt Robins V-13 1.8 x 6.0 Double Deck replacement screen was designed, manufactured installed and commissioned in just 4 weeks. This short delivery allowed Whisby to stop production for 4 weeks whilst the machine was being built.

Hewitt Robins supplied a replacement screen that was specially designed to replace the Niagara Screen. The replacement screen had to be designed so that it could fit into the existing structure and picked up the same foot-prints with little or no modification.

The new Hewitt Robins V-13 1.8m x 6.0m inclined double deck screen is constructed of 10mm thick side plates with cross member spacing every 600mm. The 2 bearing oil lubricated vibrator unit was also supplied with 11kw drive motor, close fitting guard, coiled springs, new spray bars and manifold, rubber cross member protection and the existing modules were re-used off the original Niagara screen.

Stuart Moore - Quarry Manager, Lafarge Whisby commented: "The Hewitt Robins Screen installation went well, on time and on budget. Operationally the screen is meeting our expectation and our production requirements. Hewitt Robin's commitment and professionalism to the project has been much appreciated".

CDE launch new Aquacycle thickener



CDE has announced the launch of the Aquacycle A1500 thickener following its installation at a site operated by Creagh Concrete in Northern Ireland.

The addition of the A1500 to the Aquacycle range represents the completion of a significant R&D program and will ensure increased opportunities to specify thickeners on the washing plants installed by CDE throughout the world, according to Senior Design Engineer with CDE, Paul O'Neill.

"The A1500 significantly increases our opportunities to win business in the many markets in which we operate" explains Paul. "As we make progress in areas like South Africa and Australia, the A1500 allows for the introduction of a single unit on projects with high processing tonnages. Up until now multiple machines were required to deal with the high processing throughputs that are typical in these areas."

The A1500 has a capacity of between 1000m³/hr and 1500m³/hr determined by the material being processed. "In a typical sand and gravel application the dirty water processing capacity will be approximately 1500m³ per hour" says Paul. "On ore processing applications capacities will be determined on an individual project basis to

allow for the effective treatment of sludge containing material with a significantly higher specific gravity."

One of the many product developments on the new Aquacycle A1500 is the redesign of the rake mechanism which is employed to condition the settled sludge within the thickener before it is discharged to the next phase of processing or the settling ponds. "The new four arm rake mechanism ensures maximum settlement of the sludge within the thickener while also ensuring its density is optimised for effective discharge via the integrated slurry pump" explains Paul O'Neill. Following the introduction of the new rake mechanism on the A1500 the design will now be introduced across the full Aquacycle range.

In recent years CDE has reported a substantial increase in the specification of Aquacycle thickeners on their global washing plant installations. "Over 80% of all our projects now include some form of water treatment across all feed materials and geographies" explains CDE Sales Director, Enda Ivanoff. "The launch of the A1500 will allow us to realise further sales opportunities in the coming months."

The rise in popularity of the Aquacycle thickener is a result of an increased requirement for operators to consider how to manage the waste water from their washing plant. According to CDE this is due to a desire to save space on site by reducing the space required for settling ponds, coupled with a growing realisation of the costs of maintaining these ponds.

The Aquacycle A1500 has a tank diameter of 15 metres and is constructed with the elevated cone design present across the range. The full Aquacycle range covers capacities from 100m³/hr up to 1500m³/hr across five models, full details of which are available at

www.cdeglobal.com

 www.hub-4.com/directory/163

Extractive industry training to develop competence



In August 2011 the MPA (Mineral Products Association) released their document, 'Safer by Competence' to help members understand their responsibilities, and to ensure all their staff are

carrying out their duties to the safest, most efficient standard, within all their subsidiaries; even if they fall into another industry sector.

MPA have defined 'competence' as: *"the ability to apply knowledge, understanding, practical and thinking skills, to achieve effective performance to the standards required in employment. This involves solving problems and being sufficiently flexible to meet changing demands."* They recommend that 'competence' is proven via an NVQ, SVQ or QCF.

Training standards, certification and value for money has never been discussed more since card schemes and proving competence came to the fore following the introduction of the Quarries Regulations 1999. Professor Lofstedt stated in his report, released November 2011, that "the industry's current understanding of 'competence' may warrant extension to develop an 'industry-specific' definition and broadening to encompass both situational awareness and the sustaining of appropriate behaviours". It also suggested that industry should consider establishing a single "Construction Industry Card Registration Authority" as an independent agency.

As the UK's leading provider of training and associated services for all types of material handling equipment and workplace transport Mentor Training have always sought to apply all relevant guidance and incorporate best practice within their training courses. Wherever appropriate, acts and regulations such as the Health and Safety at Work Act 1974, Provision and use of Work Equipment 1998, Management of Health and Safety at Work Act 1999, Personal Protection Equipment at Work Regulations 1992, Control of Substances Hazardous to Health 1999 and Quarries Regulations 1999, are used to underpin training.

Helping the industry meet its targets

To enhance the industry operator training and to align with MPA guidance, Mentor have recently undertaken the major task of fully mapping courses to the relevant units of the appropriate National Occupational



Standard (NOS); per category of machine. By adopting this stance, course content has not only been updated in line with best practice, but all criteria are now covered in both theoretical and practical training.

These courses and their instructors provide individuals with the underpinning knowledge and operational capabilities to enable them to use the equipment safely and proficiently. This in turn assists companies in the more general competencies of safety, efficient working practices and environmental and quality requirements within the workplace. All of this is achieved by working closely with customers to include company procedures, safe systems of work and documentation within their training courses.

With the UK economy endeavouring to recover from some of the toughest times experienced in many generations, it is vital to understand the need to offer more than just a quality training course. Customers' demands and requirements are of paramount importance and by offering the complete training and support service, industry targets can be met and whenever possible surpassed.

Whilst continually increasing their portfolio of mobile plant training courses in line with new developments within the industry, Mentor are also keen to consult with customers and industry to provide courses to meet their individual requirements. One such course, recently introduced is for mobile crushing and screening which is also mapped to the appropriate NOS.

New Courses

The mobile crushing and screening course fully covers the safe operation and daily maintenance of these increasingly commonplace types of machine. Using relevant guidance and legislation as a foundation, the course covers the potential accidents and risks associated with using mobile crushers and screeners.

The course provides an introduction to jaw, cone, gyratory and impact crushers, including the use of the manufacturer's manual, pre-use checks, start-up, manoeuvring, and safety hazards such as machine blockages. Machine shutdown, transportation and environmental issues are also covered in detail.

Another new course recently introduced is light vehicle training. This program provides an in depth understanding of 4x4 vehicles and the hazards involved in their operation in quarries and landfill sites. The course incorporates health and safety legislation, pre-use inspection and a detailed look at light-vehicle control and use in a working environment. General and quarry-specific driving hazards, such as stability and negotiating slopes, are covered to ensure operatives can safely deal with off-road terrain. An option of trailer towing is also available.

All training courses are carried out by qualified industry instructors who have undergone accredited training in instructional techniques and skills assessment. Courses are usually held at customers' own sites to allow for site-specific/operational training.

Mentor provides operator training courses for a wide range of mobile plant used within the quarrying industry. The courses are all designed to provide individuals with the operational capabilities to make them safe, efficient and effective operators and to support the industry in achieving its stated goal of zero incidents and a fully competent workforce.




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