



**PREVIEW EDITION**

Issue 29



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# Anaconda DF512 Scalping Screen



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**Hub Digital Media Limited**  
27 OLD GLOUCESTER STREET, LONDON WC1N 3AX

## Spring 2014

**Sales & Advertising Enquiries:**  
**0845 680 0024**

Sales Manager  
**David Roberts**  
david@hub-4.com

Editor  
**John Edwards**  
john@hub-4.com

# Consents for new landfill void fall to an all time low

Less than 10% of planning consents granted in 2013 for waste facilities related to landfill sites. Even with these, most permissions related to extensions of time to operate the landfill site, rather than additional void space. These are some of the conclusions of an analysis of planning consents in the waste industry, undertaken by industry marketing consultancy, BDS Marketing Research Ltd. 'Virtually all the landfill permissions that we did pick up last year related to inert sites. Very few were for sites taking municipal waste. In total, additional void space granted in 2013 at all landfill sites amounted to just 6 million tonnes of waste. Ongoing increases in the landfill tax are seeing the industry divert tonnages away from landfill and toward a wide range of other treatment processes' commented Julian Clapp, principal consultant at BDS after publication of the analysis.

BDS picked up a wide range of both planning applications and consents for waste management facilities. Nearly one in four consents monitored by the consultancy related to anaerobic digestion plants. The next most common permissions related to transfer stations and recycling facilities. In total, BDS picked up nearly 700 applications and consents for waste facilities during 2013.

The industry has been fairly successful in obtaining planning consents for new facilities or extensions to existing sites. BDS found that around 60% of applications were successful last year. A further 20% remain outstanding. The remainder were refused, withdrawn or are the subject of a scoping or screening application.

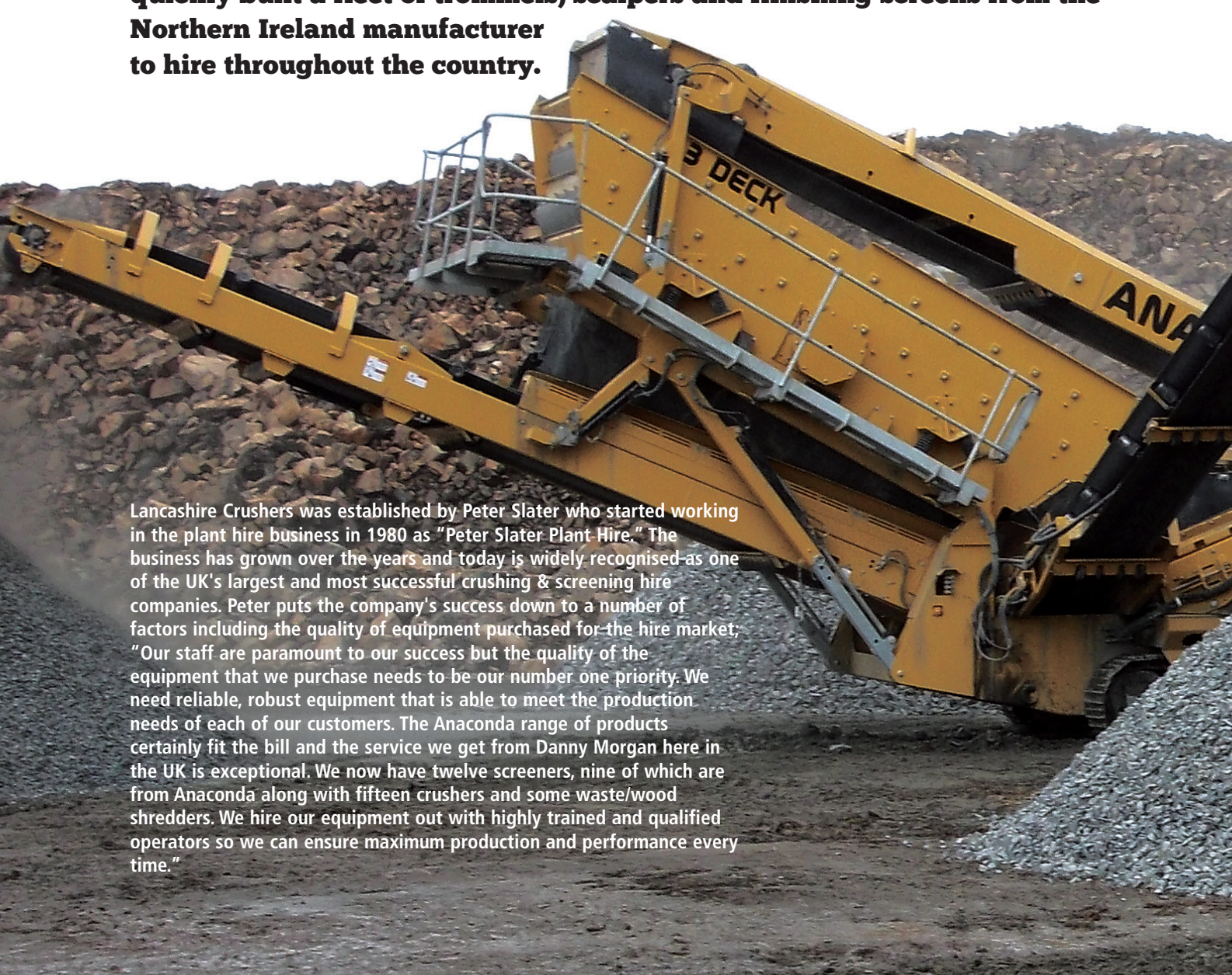
Most applications were decided within six months. However, occasionally planning proposals can take more than a year to be decided. In one case, it took over four years for an application for an MBT plant to be granted, after an Appeal was turned down and a Public Inquiry took place. BDS has also found other occasions where a relatively small scheme has taken more than a year to be resolved.

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



# Lancashire Crushers add another Anaconda Screen to the hire fleet!

**Lancashire Crushers, the Preston based plant hire company, has just taken delivery of their ninth screen from Anaconda. The company started to work with Anaconda a little over 12 months ago and has very quickly built a fleet of trommels, scalpers and finishing screens from the Northern Ireland manufacturer to hire throughout the country.**



Lancashire Crushers was established by Peter Slater who started working in the plant hire business in 1980 as "Peter Slater Plant Hire." The business has grown over the years and today is widely recognised as one of the UK's largest and most successful crushing & screening hire companies. Peter puts the company's success down to a number of factors including the quality of equipment purchased for the hire market; "Our staff are paramount to our success but the quality of the equipment that we purchase needs to be our number one priority. We need reliable, robust equipment that is able to meet the production needs of each of our customers. The Anaconda range of products certainly fit the bill and the service we get from Danny Morgan here in the UK is exceptional. We now have twelve screeners, nine of which are from Anaconda along with fifteen crushers and some waste/wood shredders. We hire our equipment out with highly trained and qualified operators so we can ensure maximum production and performance every time."

Anaconda UK is a relatively new company set up in Cheltenham by Danny Morgan who has spent more than 20 years in the industry selling crushers and screens throughout the UK. Anaconda UK covers Wales and the West of England for sales and after sales support and has to date more than 30 units sold in 15 months. Mr Morgan also highlights the quality of machines coming from Anaconda; "Anaconda has brought to the market a range of affordable, high performing screeners that meet the application requirements across a range of sectors. The TD516 trommel has been the outstanding success story and demand continues to grow. Peter at Lancashire Crushers took the first TD516 I sold into the UK and he has just taken delivery off his sixth one such is the hire demand for them. He also owns a scalper and two finishing screens, all of which are out working all the time. The equipment is well built, performs well and are extremely reliable."

Anaconda's range of equipment includes conventional screening units, scalpers, trommel screens and mobile conveyors. The equipment is extremely robust, well priced and performs extremely well in a wide range of applications. The SR514 triple deck screen is the latest screen to be added to the range and will offer four-way separation of material.

Con Gallagher, Sales & Marketing Director at Anaconda, concludes on how Lancashire Crushers have helped Anaconda UK to gain a foothold in the market; "Lancashire Crushers are an extremely professional and hard working company and we are extremely grateful for the business Peter has given us to date. Peter and Danny work very closely together and have been able to create a very good hire market for our range of screens. The TD516 trommel has exceeded our expectations and we are very pleased with how well it performs in some very tricky applications. Danny Morgan is very well respected in the industry and has a wealth of knowledge when it comes to tackling application problems. Danny has become one of our largest dealers around the world and he deserves every success for the effort he puts into his business."



[www.hub-4.com/directory/12687](http://www.hub-4.com/directory/12687)



For more information on Anaconda and the range of products please visit their website [www.anacondaequipment.com](http://www.anacondaequipment.com)

If you would like to demonstrate, hire or buy any of the equipment please contact Danny at Anaconda Sales UK

Contact: Danny Morgan

T: 07568 568 231 E: [danny@anacondasales.co.uk](mailto:danny@anacondasales.co.uk)

# Exhibitions & Events Diary



## IFAT ENTSORGA 2014

May 5–9, 2014, Messe München, Germany  
[www.ifat.de](http://www.ifat.de)



## SaMoTer 2014

Date: 8th – 11th May 2014  
 Verona Exhibition Centre, Verona, Italy  
<http://www.samoter.com/en/>



## MHEA - Bulk Handling Conference 2014

21st May 2014 to 22nd May 2014  
 Forest Pines Conference centre  
 North Lincolnshire, UK  
[www.mhea.co.uk](http://www.mhea.co.uk)



## RECYCLING-TECHNIK 2014

**Dortmund**  
 21–22 May 2014  
 Dortmund, Germany  
[http://www.easyfairs.com/events\\_216/schuettgut-recycling-technik2014\\_48361/recycling-technik-2014\\_48460/](http://www.easyfairs.com/events_216/schuettgut-recycling-technik2014_48361/recycling-technik-2014_48460/)



## CARS - Complete Auto RECYCLING AND SECONDARY METALS

5th June 2014 to 6th June 2014  
 Motorhog, Doncaster, UK  
[www.cars-expo.com](http://www.cars-expo.com)



## PAWRS 2014

10th–12th June 2014  
 Paignton, Devon, UK  
[www.pawrs.com](http://www.pawrs.com)



## Hillhead 2014

24th June 2014 to  
 26th June 2014, Buxton, Derbyshire, UK  
[www.hillhead.com](http://www.hillhead.com)



## WASTE 14 W.A.S.T.E 2014 - THE WASTE AND SKIP TRADE EXHIBITION

3rd July 2014  
 Salford City Stadium, Manchester, UK  
[www.skiphiremagazine.co.uk/waste14](http://www.skiphiremagazine.co.uk/waste14)



## STEINEXPO 2014

3–6 September 2014  
 Homberg/Nieder-Ofeldten, Germany  
[www.steinexpo.de/](http://www.steinexpo.de/)



## RWM 2014

16th to 18th September 2014  
 NEC Birmingham, UK  
[www.rwmexhibition.com](http://www.rwmexhibition.com)



## Bauma China 2014

25th to 28th November 2014  
 Shanghai, China  
[www.bauma-china.com](http://www.bauma-china.com)



## POLLUTEC

2nd to 5th December 2014  
 LYON EUREXPO, FRANCE  
[www.pullutec.com](http://www.pullutec.com)



## INTERMAT Paris 2015

20th to 25th April 2015  
 Paris-Nord Villepinte, France  
<http://paris-en.intermatconstruction.com/Intermat/The-Exhibition>



## BAUMA 2016

11th to 17th April 2016  
 Munich, Germany  
[www.bauma.de](http://www.bauma.de)





# Products and solutions for environmental markets around the world

**The world's most important trade show for environmental technology IFAT - taking place between May 5 and 9, 2014 in Munich - will again be a showcase for innovations designed to meet the environmental challenges in regions around the world. Significant new business potential is opening up in a number of different markets.**

In Europe there is still an east-west divide when it comes to the management of waste. In Central and Eastern Europe there are large and growing markets, and the potential here is being explored step by step. For example, in the middle of last year new definitions in the processing of waste came into force in Poland: the cities and local authorities are now legally the "owners" of the waste produced in their areas, and therefore also responsible for its disposal. Under the new regulations, Polish households are now obliged to separate their waste. Also, of the around 600 legal waste dumps in the country, at least 300 will have to close in the coming years, either because they do not conform to EU standards or because they have reached their capacity limits. This restructuring is giving a boost to waste-incineration plants and recycling technologies. The economic development agency Germany Trade & Invest (GTAI) puts the value of the Polish waste-disposal market in 2013 at 1.4 to 1.5 billion euros.

Kazakhstan, too, in the middle of the Eurasian land mass, is also modernizing its waste-disposal systems. According to GTAI, in January 2014 the government of this, the largest land-locked country in the world approved a program of investment that sees around 576 million euros flowing into the sector up until 2020. The plan is to introduce separation of waste in stages, to modernize its fleets of waste-collection vehicles, and to build new waste-processing plant.

Around the world there is increasing acceptance of waste incineration coupled with energy generation, in particular in regions with a high population density, such as Europe, the Middle East and South Asia. Consultants Frost & Sullivan predict that the global market in such waste-to-energy plant will rise to around 21 billion euros by the year 2016 (2012: just under 13 billion euros). The most attractive prospects for this growth, say the analysts, are to be found in the Asia-Pacific region. Hong Kong is a good example: According to information from GTAI, the government of this Special Administrative Region is set to invest almost 2.9 billion euros in waste processing by 2020, and included in this plan is a mega waste-incineration plant with a capacity for 3,000 tonnes per day.

As Germany's Federal Statistical Office reported early this year, in 2011 German manufacturers invested a total of 2.9 billion euros in the protection of surface waters and ground water, for example in neutralization and sewage plant. Nevertheless the German market in the water sector is seen as virtually saturated, according to the German Water Partnership (GWP). Since 2008 this network of companies has therefore been identifying interesting markets abroad. One of the countries currently attracting renewed interest is Iran. Dr. Shahrooz Mohajeri, Managing Director of the Berlin-based inter 3 Institute for Resource Management and GWP Board Member, reports that "the Iranian water economy is facing the challenge of supplying more and more drinking water to a rapidly rising number of households, in the face of diminishing and ever poorer-quality water resources with wide differences in regional distribution."

Together with the easing and possible removal of international sanctions against Iran by summer this year, significant potential would result for the international water sector. The Iranian government is planning, for example, to modernize the country's drinking water plant and to build additional desalination facilities. Other focuses in terms of water and wastewater management in Iran are to extend the sewerage networks and treatment plants in the cities and build new installations in rural areas. A sum of around 25 million euros is to be invested in the coming years solely in connecting more households in urban areas to the municipal sewerage network - today only around 37 percent of properties are connected, and the plan is to increase this to 65 percent by 2025.

**Further information: [www.ifat.de](http://www.ifat.de)**



What's next.



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- De-Inking Screen®
- Feeding, dosing and conveyor systems

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- SDS Compact

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Please visit us on Stand 332 - Hall C1 at the IFAT in Munich from 5 until 9 May 2014

# Eriez to show off new separators at IFAT

**Three innovative products which push back the boundaries of recycling will be the centre of attention on the Eriez stand at IFAT 2014 in Munich this spring.**

The brand new RevX-E eddy current separator will be introduced to continental Europe for the first time. This revolutionary new machine achieves much greater separation of valuable non-ferrous metals than existing market-leading products and can be applied to a wide variety of mixed waste streams.

In doing so it provides materials recycling facility (MRF) operators with:

- a higher recovery of valuable materials
- less waste to send to expensive landfill sites
- a higher grade metal end product

Such is the versatility and efficiency of the RevX-E that new applications are constantly being found for it but it is already proving highly beneficial when used in automobile shredding and the recycling of glass cullet, plastics, electronic scrap, co-mingled recyclables, wood and incineration ash.

Eriez has produced two different versions of the RevX-E; the ST2 for materials typically between 25mm and 150mm in diameter and the ST22 for fines smaller than 25mm. Both will be on show at IFAT - so why not bring along a sample of your own to see how well our RevX-E separates them?

We will also be using our FinesSort with the ECS ST2. This enables the sorting of fine material into non-ferrous and valuable ferrous elements, increasing their recovery from fines materials.

And the Eriez OBM vibratory feeder will be feeding materials into the FinesSort. This accomplished feeder provides even distribution of material in the tray and belt for improved magnetic separation.

The RevX-E will be sharing the limelight at IFAT with Eriez's new ballistic separator, the Shred1®.

Shred1 uses a high speed conveyor belt and magnet to create two streams of ferrous material; a high-grade low-copper ferrous product and a typical mixed metal shred. It is the speed of the conveyor belt that enables the first stream to be such a high grade. Without this feature the ferrous stream would still need to be hand-picked for meatballs and other copper-bearing particles.



Shred1 separators can also be used as part of Eriez's CleanStream system with the PokerSort extractor and P-Rex permanent drum magnet to maximise recovery and improve the grade of ferrous product even further.

As this equipment is too loud and too large to demonstrate at a trade show and comes with all the normal MRF health and safety requirements, the Eriez team will be showing videos of the separator in action.

Also on display will be our TP20/80 self-cleaning overband magnet. Eriez twin pole overband magnets are routinely used to remove ferrous items from conveyed material. The twin pole systems is ideal for wood chip application as the items, such as screws, are trapped flat on the surface of the magnet, preventing damage to the belt and improving the reject rate.



Another standard piece of equipment, our Prograde magnetic drum, will also be on the stand. This ferrite drum - a part of Eriez Prograde range - enables the removal of large ferrous material from conveyor belt. What makes this product so popular is that it is available off-the-shelf.

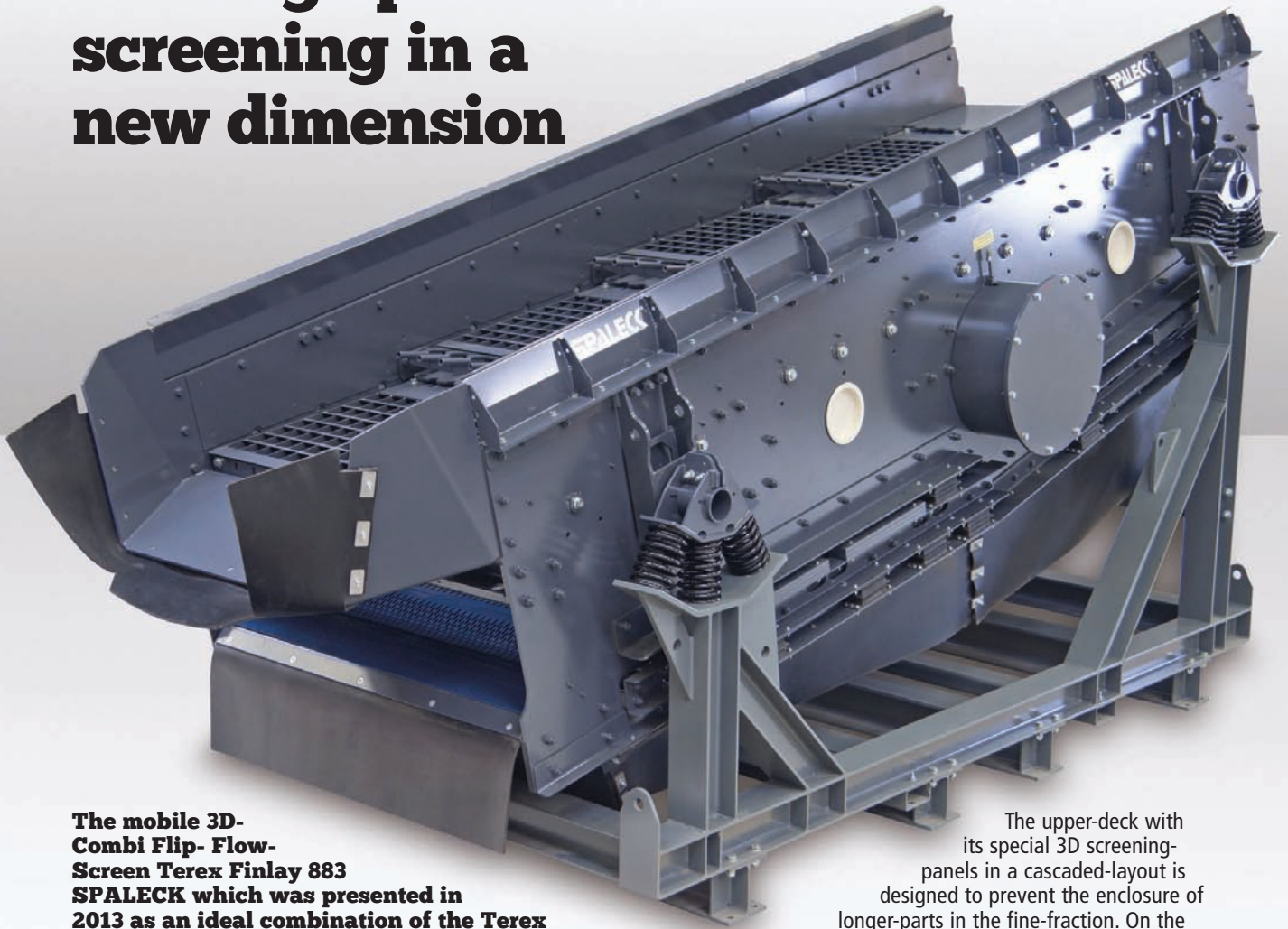
Visitors can also see our EZTEC 9100 metal separation station that separates ferrous and non-ferrous particle flakes. It is very successfully used to produce high grade PET flakes when run with an Eriez vibratory feeder and a magnetic grate that removes the fine ferrous content before it reaches the metal separator. The EZTEC 9100 then directs metal contaminants, such as aluminium flake, into one bin and the clean, metal-free flakes into another. This set-up is very popular in the recycling of plastic frames.

And finally our MA3500 metal detector will also be on display. It is part of Eriez's Metalarm range and is used for machinery protection and quality control at a wide variety of processing plants. The MA3500 is fitted with a bridge coil over the conveyed product to protect machinery further down the line from ferrous and non-ferrous debris and ensure greater product purity.

The Eriez Europe and Eriez Germany teams will be on Stand 232 in Hall C1 and some of our senior colleagues from our parent company in USA will be in attendance too.



# The big “plus”- screening in a new dimension



**The mobile 3D-Combi Flip- Flow-Screen Terex Finlay 883 SPALECK which was presented in 2013 as an ideal combination of the Terex Finlay and SPALECK know-how has gained a high acceptance within the different branches of recyclable materials. Still being a class of its own by combining two different screening-technologies the heart of the 883 the SPALECK screening-body will be even outranked during the IFAT 2014 by the new version 883+. The visitors will be able to experience this by themselves on the open-air ground near hall C3 (northern entrance). In the scope of the “VDMA Praxistage” Terex Finlay and SPALECK will show the class of the 883+ in comparison to different technologies of the competition within several presentation- and test-events. The shows are organised in groups and at different times guided both by a host and experts of the suppliers to explain the function and the work wise in detail during operation. To be able to completely focus onto the tests wireless headphones will be available.**

The Terex Finlay 883+ SPALECK version 2014 will prove its exclusive demand for quality and its additional value in this connection by screening waste-fractions.

All recyclable materials disregarding whether it is MSW, C&D-, C&I-waste, bottom ash or metal-scrap (shredder light-respectively heavy-fractions) and wood-fractions are able to be screened nearly block-age free with the SPALECK screening-technologies by combining a 3D-screening in the upper-deck with the Flip- Flow- System in the lower-deck.

The upper-deck with its special 3D screening-panels in a cascaded-layout is designed to prevent the enclosure of longer-parts in the fine-fraction. On the lower-deck the fines will be loosened and turned in an optimal way due to the high dynamic of the PU screening-mats and the movement according to the Flip- Flow- principle “stretching-relaxing-stretching-relaxing”. Both the 3D screening-panels and the PU screening-mats are available in a vast range of executions with different mesh-sizes allowing the customer to screen out nearly any desired grain-size. Additionally the modular design of the upper-deck and the screw-less fixing of the screening-mats in the lower-deck reduces the time for maintenance- and cleaning-work.

The SPALECK 883+ in the actual version of 2014 now offers a further optimisation of the screening-technology to be recognised. For the first time and applied for a patent the Flip-Flow- deck (lower-deck) is executed in a bifid design arranged in different angles. This design enables the set-up of different tensions for the screening-mats in the in feed- and discharge-area influencing the screening-process in the named parts of the screen. In combination with the higher angle of the in feed-sided Flip- Flow- deck the flow rate will be increased resulting in a faster reduction of the material-layer and a higher screening-capacity. Compared to the in feed-area the discharge-side has a lower angle and a slighter amplitude keeping the material closer to the screening-mats which allows an effective and high grading screening of near-mesh material without clogging - even for higher loads.

The Terex Finlay 883+ SPALECK could be found at the IFAT 2014 in Munich from the 5th to the 9th of May on the open-air ground near hall C3, northern entrance, within the scope of the “VDMA Praxistage” and in hall C2, booth 203/202.



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

# WASTE'14 - The Event of the Waste and Recycling Industry Year



**The much anticipated WASTE'14 takes place in Manchester this 3rd July. WASTE'14 (The Waste and Skip Trade Exhibition) acts as a who's who of the industries who specialise in waste management and recycling. Blue Machinery, Mercedes-Benz, Anaconda, Cayvol and MK Group are some of the brands exhibiting at what looks to become a regular date in the industry calendar.**

The show has been sponsored by several high profile companies including municipal road sweeper manufacturers Stock Sweepers, as well as headline sponsor Hadfield Wood Recyclers. Vicki Hughes, business development director at Hadfield, has spoken about the business's eagerness to get on board, "When we heard about WASTE'14, we knew it was an ideal event for us to be at and so jumped at the chance to be its lead sponsor...We can't wait to get there!"

Even in its first year, WASTE has managed to book notable guest speakers including CIWM, WAMITAB, CHEM and UROC. These groups will address major issues facing the industry including trommel fines, vehicle safety and training in the 40-seater seminar room. This area will be sponsored by waste handling equipment giants, Pakawaste Ltd.

The idea behind the show is to bring professionals together to do business, gain insight in to what is going on in the industry and learn from experts and specialists. The organisers, industry favourites Skip Hire Magazine, commented, "This show is here to unite our advertisers and readers - we have toyed with the idea of a show for the past few years, and 2014 seems to be the right time to do it. We're so looking forward to sharing the day with companies who have become friends, as well as business associates."

The show takes place at Salford City Stadium off the M60 from 9am - 5pm on Thursday 3rd July. Register here as a visitor: [www.skiphiremagazine.co.uk/waste14/visitorinformation/](http://www.skiphiremagazine.co.uk/waste14/visitorinformation/)

There are a few exhibition stands left, so if you're interested in showcasing your brand to your key audience, call Debbie on 0161 482 6224.

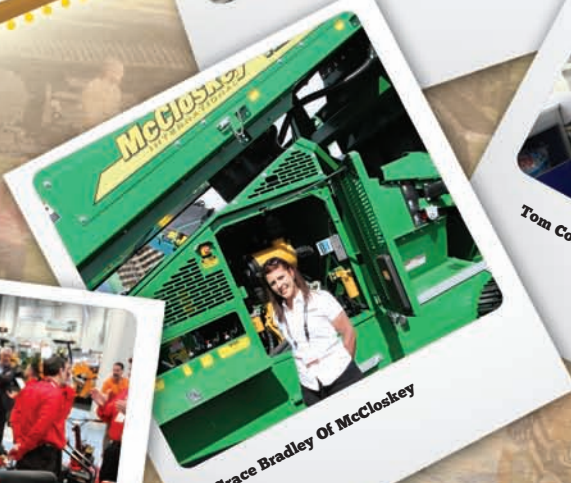
**WELCOME**  
TO *Fabulous*  
**LAS VEGAS**  
NEVADA



Peter Craven of CDE Global



Tom Connolly of EDGE



Grace Bradley Of McCloskey



Martin Quinn & Alistair Forsyth of Anaconda



Annette Alsterholt of Chicago Pneumatic



Charles Sinunu of DSC Dredge



Richard Moorfoot, Richard Stenhaus, Mike Gibbins and Brad Parent of Britax PMG

Check out who the  
over at ConEx



Michelle Murphy of Powerscreen and Paul Campbell, President of Powerscreen California and Hawaii



Malachy Gribben of Telestack



Elaine Donaghy of Terex Washing



Gordon Bruce and Jonny Simpson of Bruce



Steven Allan & Adrian McGuckin of RP Group



Elizabeth Arzt, Ming Shen  
and Chris Zhang of TRIO



Chris Burton of JCB



Melissa Baker & Kimberley  
Page of Sandvik



John Pickering and Mark Lappin of  
RAPID International



Tim Monroe of Smiley Monroe



George Sidney & Sean McLanahan  
of McLanahan Corporation

## HUB team caught up with CONEXPO-CON/AGG 2014 in Las Vegas



McLanahan Cone Crusher



The JCB Dancing Diggers!



Terry Riley Sales Manager  
for Powerscreen Washington

# CARS (Complete Auto Recycling and Secondary Materials) trade show 5-6 June 2014, Motorhog Doncaster, UK

**Organised by: Environment Media Group** **Headline sponsors: Fab Recycling, JCB, JMC Recycling Solutions**

The Complete Auto Recycling and Secondary Materials (CARS) trade show has established itself as the leading event for End of Life Vehicles (ELVs), metals recyclers and other related material reprocessors in Europe.

Launched in 2012, CARS was a huge success - welcoming over 76 exhibitors and more than 800 attendees from countries including the USA, India, Japan and Germany. CARS 2014 will take place on 5-6 June at the working vehicle salvage yard of Motorhog in Doncaster, and is already shaping up to be even bigger and better than before! The show offers a packed two days - including conference programme, practical training, indoor and outdoor exhibitions, big machine demonstrations and tours of Motorhog, one of the UK's leading dismantling and salvage specialists.

A key feature of CARS 2014 is the **Duesmann and Hensel Conference Theatre** - with each session hosting a panel of expert speakers discussing key topics facing the sector. Sessions include: Meeting 2015 ELV targets: what's involved? and Green parts - which will explore how the industry must pull together to increase the use of green parts within the UK. Plus, in light of ground-breaking new technology predicted to emerge in the next few years, and Volvo's recent ambitious claim that: "by 2020, no one will be killed in a new Volvo" - the Future vehicles and the impact on auto recyclers session will explore the impact of new vehicle design and its effect on automotive repair and recycling businesses.

CARS is not a standard trade show - visitors are encouraged brush up on their skills and even test their knowledge against the experts; with practical training in the **Skills Lab** on subjects including: Depolluting air conditioning units and, Grading mechanical parts: working to a standard.

Furthermore, the show will feature live outside demonstrations of the JMC work line - the de-pollution and dismantling of ELVs and downstream processing of valuable materials. See the latest machines designed to turn ELVs into cash including CAT recycling, engine cracking, wiring loom granulation, wheel ripping and car baling. Exhibitors including Hammel, Overton Dismantlers and Solmec will also be showcasing their machinery in action in the big machine demo area - not standard procedure for an average trade show!

Socialising with friends, colleagues and clients will also play an integral role. On the Thursday evening, the Sims Networking Pavilion will host an Oktoberfest-style beer hall extravaganza - where visitors will be treated to music, local beers and traditional pie and mash dinner. There will be an industry awards ceremony and charity auction in aid of two charities - Firefly Cancer Awareness and Support and Rett UK. CARS has even managed to source comedian Sid Dennis who hails from the scrap metal industry to provide the entertainment for the evening!

## Value for money

Unlike most trade shows where the cost of food, refreshments and entertainment is usually a hefty additional cost, CARS has simplified this.

## A ticket to the show includes all the following:

- Practical training in the Skills Lab
- Hard-hitting conference programme in the Duesmann and Hensel Conference Theatre
- Three outside equipment demo areas
- Ice cream hut, sponsored by Reco Auto
- Motorhog yard tours
- Lunch on both days of the show
- Unlimited tea and coffee on both days of the show
- Free bar from 1pm daily on both days of the show, sponsored by 1st Choice Spares
- **Thursday evening entertainment including:**
  - charity auction
  - comedian
  - industry awards ceremony

For full information about the show and to book your ticket, visit [www.cars-expo.com](http://www.cars-expo.com). What's more, you can save £20 by pre-registering for the event online.

Hub-4 is a proud supporter of the show and will be exhibiting in the Media Lounge - we look forward to seeing you there!



# Rapid International invest in more facilities

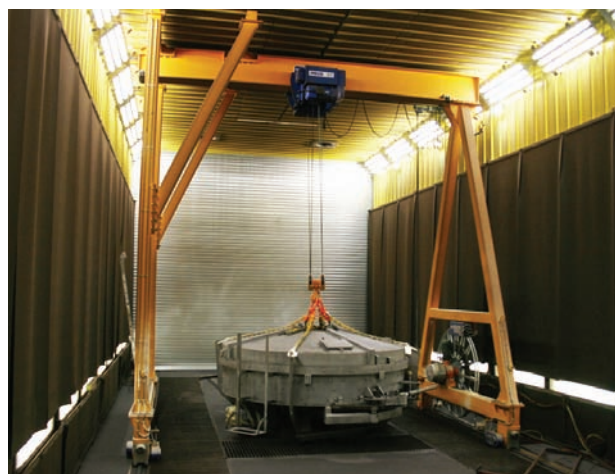
**Tandragee based concrete and construction machinery manufacturer Rapid international has invested in a state of-the-art Hodge Clemco shot-blasting facility and Dalby paint booth. Rapid previously sub-contracted industrial coating but spent time researching the best practice and best available techniques, with a view of making this service available in house. Rapid invested in this world class facility, ensuring confidence in the industrial coating provided to customers. The new spray booth can now provide Rapid a suitable atmosphere (both in terms of temperature and humidity) for the spray painting of all items manufactured. The booth also provides suitable extraction so RAPID can use polyurethane finishes on all its products. This Robust and Durable finish provides good aesthetics and protection for many years, in addition to this the ECO-SAVE mode, when not spraying reduces energy consumption.**



Further benefits to the end user besides saving time and being more costs effective, enable Rapid to create customised machinery in the company's brand colours and apply the brand image when they purchase equipment.

Rapid is proud to provide not only some of the world's leading construction companies but also smaller concrete producers with innovative equipment solutions. Its high quality range of concrete mixers, mobile/ stationary plant and mobile continuous mixing plant offers outstandingly reliable solutions for the concrete, construction and environmental industries.

Always innovating, Rapids' emphasis on product development is driven by the needs of its wide-reaching customer base, with a presence today in more than twenty countries worldwide. Quality, reliability and service are with upmost importance to Rapid and this additional investment ensures confidence in Rapid to continue with manufacturing excellence.



[www.hub-4.com/directory/5066](http://www.hub-4.com/directory/5066)

# What could you miss at PAWRS 2014?

**It's crucial for any business or Local Authority to keep up with new and exciting products and services to help productivity and lower running costs, you can achieve all of this and more at "The Plant & Waste Recycling Show" (PAWRS).**

The Plant & Waste Recycling Show will be held on the 10th, 11th & 12th June 2014 on Paignton Seafront. Everyone is welcome and we are pleased to announce visitor registration is now open, please visit [www.pawrs.com](http://www.pawrs.com) to register for free.

With over 70 different exhibitors the PAWRS show is a great opportunity to meet the companies that are working hard to develop new products to keep up with the demand of cutting costs and increasing targets.

There is plenty to see and do at this year's show with the introduction of the "Arrive & Drive" demonstration area, training zones, auction Zones and all for FREE! Make the most out of a day and visit but if your able to visit for longer enjoy the surroundings of the Devon coastline with key figures within the industry.

The PAWRS Exhibition is held in a small holiday town of Paignton, Devon. Exhibitors enjoy the ease of Paignton, with access to their stand from 8am until 10pm with friendly staff on site to help with no extra cost for parking or using the onsite forklift. The PAWRS Show is perfect for the Devon coastline with its relaxed atmosphere and inexpensive hotels,



pubs and restaurants all within walking distance from the show ground, PAWRS is the number one event to build relationships with exhibitors and visitors meeting at the "Inn on the Green" after the show.

Exhibition stands and spaces from £500 with no hidden charges why not make a change this year and support the exhibition that is actively supporting you. PAWRS is now a fixed date and has gained respect and support from the industry with over 23,000 individual sign ups to our monthly newsletter. Please contact PAWRS if you would like any further info.

Please visit [www.pawrs.com](http://www.pawrs.com) or contact the PAWRS Team at [info@pawrs.co.uk](mailto:info@pawrs.co.uk) or call 01962 870355.



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1

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## Comprehensive programme for Bulk2014 conference

**A comprehensive programme of papers and speakers at Bulk2014 - the bulk handling industry's premier professional networking event - has been announced by the Materials Handling Engineers Association (MHEA).**

Bulk2014 will take place on Wednesday 21st and Thursday 22nd May 2014 at the Forest Pines Conference Centre in North Lincolnshire. MHEA president, Mike Redmond, will welcome Chris Huhne, former Secretary of State for Energy and Climate Change, as the conference opening key speaker. Mr Huhne will share insight and expertise from his current role as chairman of Zilkha Biomass Energy.

Over the two days of Bulk2014 there will be six seminar sessions chaired by industry leaders. Each session will consist of three individual knowledge sharing workshops, covering diverse sector topics including mining in remote locations; the challenges of keeping the UK lights on; load calculation for trough idler rolls; and professional recognition in mining extractives. Each session is followed by an open question forum, while regular breakouts enable delegates to meet and network with industry colleagues.

On Thursday Brian Mackenzie, managing director of Materials Handling Products Ltd, will deliver the annual Dr Harold Wright Memorial Lecture.

A gala dinner on Wednesday evening will offer delegates the chance to relax and socialise informally, and to enjoy hearing about the experiences of guest speaker, former Scotland and Manchester United footballer, Lou Macari.

Tickets for Bulk2014 are available to buy now from <http://www.mhea.co.uk/mhea-shop/events/>.

For more information about Bulk2014, including details of the full conference programme, visit [www.mhea.co.uk](http://www.mhea.co.uk).



[www.hub-4.com/directory/12484](http://www.hub-4.com/directory/12484)

## CMS Cepercor granted planning permission for expansion of facilities

**CMS Cepercor leading has recently been granted planning permission to substantially expand their facilities at their Coalville headquarters in the UK.**

This new expansion includes the construction of a new purpose built head office that will incorporate their research and development, inspection, sales, administration and crusher training facilities alongside the substantial expansion of their existing crusher parts storage and distribution warehousing.

The new development of the facilities in Coalville is planned to commence shortly and to be completed in Q1 of 2015. This latest development follows the recent substantial investment in the CMS Cepercor™ technical centre in Coalville which was commissioned in 2013. This subsequently included the integration of Baguley Precision Engineers Limited, the wholly owned UK manufacturing subsidiary business of CMS Cepercor™ into their Precision Services Division.

The new technical centre represented a substantial investment in new premises, and CNC manufacturing capability, which has further enhanced the manufacturing, inspection and repair facilities in Coalville and provided greatly improved manufacturing efficiency for the company.

These approved facilities include CNC, milling, turning, boring, slotting, grinding, drilling, pressing, welding, co-ordinate measuring, material testing and assembly.

Alongside the UK manufacture of crusher, screen, feeder and coating plant spare parts, the company are also experienced machining contractors to the Rail, Power, Water Treatment, Brewery and Oil Exploration (including deep sea, rig head and pipeline) Industries.

Lee Hodges - Commercial Director, commented, "In recent years CMS Cepercor™ has increasingly consolidated manufacture of our precision machined crusher spare parts in-house and the expansion facilities in Coalville will help to ensure we remain the genuine alternative to the original equipment manufacturer."



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# MASTER MAGNETS LTD

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*We look forward to welcoming both new and existing customers at the IFAT and Hillhead Exhibitions*

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Class Leading 7M x 1.2M Star deck  
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Web: [www.riverside-machinery.com](http://www.riverside-machinery.com)

**neuenhauser**

**RIVERSIDE  
MACHINERY**



**THE PREVIEW**

# HUB<sup>TM</sup>

The HUB guide to Hillhead and who you need to visit at this years show!

> All will be revealed: 24 - 26th June



## BRUCE LAUNCH THE MISSING PIECE IN THE **WORLD OF WASHING**

Exclusive World Launch of  
Bruce New Wash Plant



**VISIT US AT  
STAND C24**

# BRUCE

MATERIALS PROCESSING SOLUTIONS

> FEEDING/SCREENING/WASHING/RECYCLING/ENGINEERING/STEEL



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- 20 x 6 or 16 x 5 Screen
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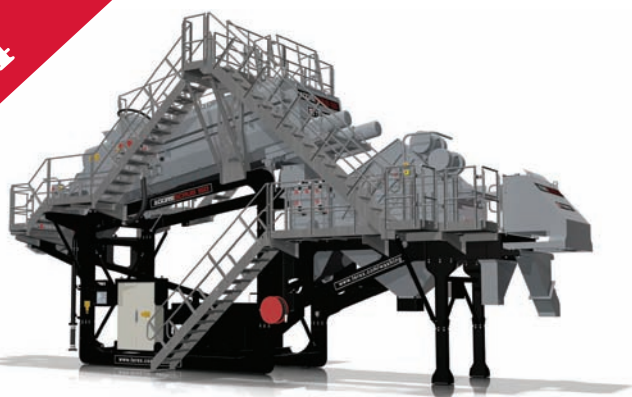


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**WASHING SYSTEMS**



# Blue Spares showcase their extensive product range of quality wear parts for all crushing and screening equipment



In 2014 the Blue Group have made the decision to form a new Spares Division with the intention of trading not only in the UK but to the Global market. The forming of this new Division is the first stage of the 5 year business plan and will see the business develop both its home and Global markets, offering customers a range of quality wear parts.

Blue Spares the Genuine arm of the Spares Division will focus on increasing turnover to its UK customer base whilst Wear and Spare parts will look at expanding on the International front with a number of routes to market being adopted. The objective of the New Spares Division will be to increase Turnover to £15m and develop the Wear and Spare Parts brand on a Global level, with the appointment of new agents and distributors as well as strategically placed Wear and Spare offices.

Hillhead gives us the platform to develop both markets and showcase our extensive product range of quality wear parts for all crushing and screening equipment.



**Blue Machinery (Spares) Ltd**  
Blue Group Spares Division

Appleton Thorn Trading Estate,  
Warrington, Cheshire, WA4 4SN.

T. 0845 130 0669 T. 01925 604881  
Email: [spares@bluegroup.co.uk](mailto:spares@bluegroup.co.uk)  
[www.bluespares.co.uk](http://www.bluespares.co.uk)



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# Rapid International Ltd

**Rapid is a global leader in the manufacturing of Pan, Planetary and Twin Shaft Concrete Mixers, Mobile Continuous Mixing Plants, Static Batching Plants, High Pressure Mixer Washout Systems, and Silos.**



At Hillhead 2014 Rapid International will be exhibiting the recently launched Rapidmix 400CW. The new model now offers a full weighing system allowing weighing capabilities for the aggregate and cement plus metering of the water usage.

Fully mobile and self contained, the Rapidmix offers a complete plant powered by its own power source, with on-board compressor and generator. Fitted with a self erecting system, the plant can change from travel mode to fully operational within a few hours. The Rapidmix 400CW mixes up to 400 Tonnes per hour depending on application and provides feed rates that are fully adjustable for the aggregate, cement and water systems.

# rapid




**STAND C19**



The new model also comes with a new look. To compliment the recent corporate brand image change the Rapidmix 400 is the first machine to adopt the new colour scheme with a cool grey colour on the chassis and yellow trim.

96 Mullavilly Road, Tandragee, Craigavon N. Ireland.  
Tel: 028 38840671 Fax: 028 38840880 email:  
[info@rapidinternational.com](mailto:info@rapidinternational.com)  
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DOOSAN, CREATING CONSTRUCTION EQUIPMENT FOR OVER 40 YEARS.

[www.simplicity-works.eu](http://www.simplicity-works.eu)



# "THE PERFECT PAVING PACKAGE"



The new P6870C, now powered by a Volvo D6 six litre Stage IIIB compliant engine, offers greater fuel economy, reduced noise levels and an enhanced electronic paver management system making it the most environmentally friendly and user friendly wheeled paver on the market.

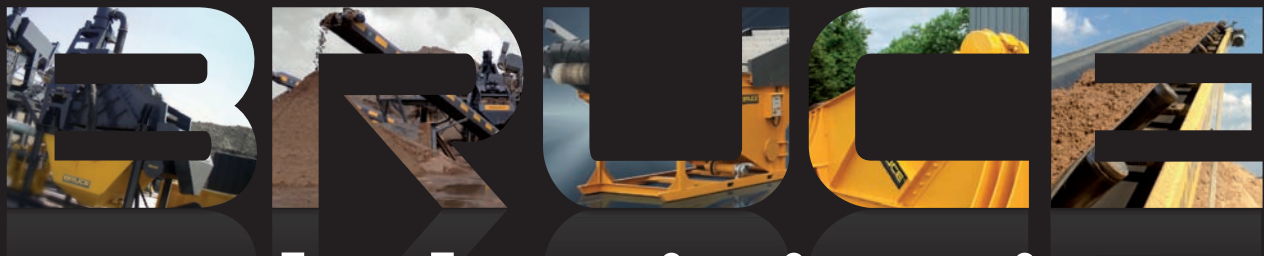
"My operating crews appreciate the machine's low noise levels, manoeuvrability and easy to use controls. Underpinning all of that is the excellent level of service support we get from the team at Volvo which is why we've opted to add the P6870C to our fleet. It's the perfect paving package."

Martin Bell, Managing Director, MB Surfacing

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

**Volvo Construction Equipment**





# Launch The Missing Piece In The World of Washing



**Don't miss the exclusive World Launch of Bruce's NEW WASH PLANT to take place at Stand C24 at Hillhead 2014**



If you are even considering buying a wash plant in the near future hold off until you see what Bruce have to offer and we promise you will not be disappointed!

After 55 years in manufacturing sand and screening equipment, Bruce will launch the missing piece in the world of washing. This patented wash plant is the world's first truly portable wash plant which will allow customers to wash, scrub and screen in one simple solution.

The show will see the unveiling of a completely new concept in the field which incorporates the following unique features:

- Smallest working footprint
- Fastest on-site set up time
- Easily transportable without the need for specialist transport
- Aggregate Scrubbing, Trash Removal, Aggregate Rinsing/Sizing & Sand Production in one neat package taking up less space than a parked articulated truck
- Sensible, low cost

We say no more! Just don't miss the launch at Hillhead Stand C24, where all will be revealed!

## BRUCE RECYCLING

Bruce will also have their BWB120 Waterbath, light-waste flotation system for construction and demolition waste. This complements the Custom Recycling Range including; Picking Stations, Feeding, Screening, Water & Air Density Separation and Ferrous & Non Ferrous Separation. Bruce can now provide the full turnkey package for your recycling requirements.



## Machines on Show

**New Patented Wash Plant, BWB120  
Waterbath & Hardox Wearparts**

### HARDOX WEARPARTS

A full range of Hardox Wearparts will also be on display which ensures Bruce products are manufactured to the highest standards and keeping downtime to a minimum.

For further information contact Caroline Slane: Tel:028 8676 3684  
E:caroline@bruce-eng.co.uk  
www.bruce-eng.co.uk



[www.hub-4.com/directory/7470](http://www.hub-4.com/directory/7470)



# PRIME launches at Hillhead 2014

The Institute  
of Quarrying



STAND H3 & THE REGISTRATION AREA

**Opening up the doors to the industry, assisting in providing a continuous career progression pathway, truly embracing workforce involvement and promoting the development of individuals is encompassed within the PRIME Project (Professional Recognition in Mineral Extraction).**

Promoting the concept of CPD to "ALL" levels within the industry, the PRIME project works towards creating a fully competent workforce and achieving "Target Zero". It recognises contributions made as professionals by fully trained operatives, foreman and supervisors, encouraging a more active workforce engagement. The project will be seen to focus on the upskilling and forward development of individuals through "TPD" Total Professional Development.

Recognition is further provided in the creation of the new Technical Membership grade to the Institute of Quarrying, providing acknowledgement to those delivering specific technical services within the industry and entitling those accepted at this level to use the designation 'T.M.I.Q.'.

Education has always been the driving force behind the Institute. In addition to the range of courses and qualifications available individuals can now undertake the QCF Level 3 First Line Supervisor's Qualification on Health Safety and the Environment. A purpose designed qualification for supervisors or those aspiring to the position; the undertaking provides direct entry into the TMIQ grade on completion (subject to the

relevant occupational experience requirement being met).

Undertaking the role of Standard Setting Organisation for the Extractives and Mineral Products sector, MP-Futures represents the industries interests to government and other key agencies in matters relating to education, training and qualifications. Additionally providing leadership in the development of National Occupational Standards (NOS) and establishing new activities assisting in the promotion of career opportunities within the industry to school and college leavers.

With a proven history of providing industry leading training courses and qualifications in packages tailored specifically to individuals needs & requirements. MP Skills is effectively linking together minerals, people and skills. A firm commitment is also provided to ensure an efficient and high quality service is provided to all their clients.

A selection of some of the areas MP Skills cater to your requirements include:

- Competence Based Qualifications
- SHE Courses
- Consultancy Services
- Geotechnical Courses
- Safeguarding Vulnerable Road Users
- Site Safety Awareness



The sector specific Awarding Organisation for the extractives, mineral products and related manufacturing industries, MPQC Awarding Organisation offer a range of accreditation services and qualifications through their approved centres.

The Awarding Organisation is committed to ensuring all qualifications and products developed are responsive to the needs of the industry, flexible and quality assured. Value to learners is provided along with a full commitment to supporting the sector in its aim of ensuring a fully competent workforce.

All developed qualifications are nationally recognised and regulated by UK Qualification Regulators, with MPQC additionally having the support of the major aggregate/mineral processing trade associations. These include Quarry Products Association Northern Ireland (QPANI); British Aggregates Association (BAA); CoalPro and Mining Association of UK (MAUK) along with professional bodies such as the Institute of Quarrying, Asphalt Technology and IMMM.

Qualifications are available through our Approved Centres in:

- Asphalt
- Assessment & Verification
- Blasting
- Concrete
- Construction
- Contractors
- Drilling
- First Aid
- Geotechnical
- Instructing & Training
- Laboratory
- Maintenance
- Mining
- Plant
- Processing
- SHE
- Weighbridge

The Awarding Organisation additionally administers and manages the MPQC Plant Operator Competency Scheme, in addition to overseeing and quality assuring the MPQC/SPA Contractor Safety Passport Scheme.



[www.hub-4.com/directory/7436](http://www.hub-4.com/directory/7436)

You can find out more about the PRIME project, membership or the educational offerings from the Institute of Quarrying and Mineral Products Qualifications Council by visiting stand H3 or the registration area during Hillhead 2014.

#### The Institute of Quarrying / MPQC

McPherson House  
8a Regan Way, Chetwynd Business Park  
Chilwell, Nottingham NG9 6RZ

#### The Institute of Quarrying

Telephone: +44 (0)115 972 9995  
Email: [mail@quarrying.org](mailto:mail@quarrying.org)  
Web: [www.quarrying.org](http://www.quarrying.org)

#### MP Skills

Telephone: +44 (0)115 983 6580  
Email: [info@mpskills.co.uk](mailto:info@mpskills.co.uk)  
Web: [www.mp-qc.org](http://www.mp-qc.org)

#### MPQC Awarding Organisation

Telephone: +44 (0)115 972 6121  
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Web: [www.mp-qc.org](http://www.mp-qc.org)

#### MP Futures

Telephone: +44 (0)7825 294 009  
Email: [Anthony.Elgey@mp-qc.co.uk](mailto:Anthony.Elgey@mp-qc.co.uk)  
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# IQ

The Institute  
of Quarrying



# mpqc

MINERAL  
PRODUCTS  
QUALIFICATIONS  
COUNCIL



# ONLY THE BEST FOR THE BEST



## Visit us at Hillhead Stand J1 Your Needs, Our Focus

From global product launches to live machine demonstrations, Hillhead 2014 will be the perfect opportunity to explore Sandvik Construction's world leading range of equipment. With a product portfolio including crushing and screening machinery, drill rigs, rock tools, breakers and tunneling equipment, Sandvik Construction possess the products and know-how to deal with virtually every possible requirement.

SANDVIK CONSTRUCTION  
UK CONTACT: HEARTHCOTE ROAD, SWADLINCOTE, DERBYSHIRE, DE11 9DU  
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IRL CONTACT: TULLYVANNON, BALLYGAWLEY, CO. TYRONE, NORTHERN IRELAND, BT70 2HW  
T: 0044 (0) 28 8556 7799 F: 0044 (0) 28 8556 7007  
info.smcuk@sandvik.com www.construction.sandvik.com



# Aggregate Processing & Recycling Ltd (AGG-PRO)



McCloskey J45S mobile tracked recycling/jaw crusher



**STAND M10**



McCloskey S190-3 triple deck screen

AGG-PRO is the exclusive distributor across the UK, Ireland and the Middle East for high performance GIPO crushing and screening plant. They are also the exclusive McCloskey crushing and screen plant distributor for central UK and the Middle East. The company will be showing the newly launched McCloskey J45S mobile tracked recycling/jaw crusher alongside a McCloskey S190-3 triple deck screen and a number of mobile McCloskey and GIPO machines suitable for quarrying and recycling applications.



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Aggregate Processing & Recycling Ltd Hedging Lane,  
Wilnecote, Tamworth B77 5EX UK  
Tel +44 (0)1827 260290 Fax +44 (0)1827 287770  
Email [info@agg-pro.com](mailto:info@agg-pro.com) [www.agg-pro.com](http://www.agg-pro.com)



## Tema (Machinery) Ltd

Tema (Machinery) Ltd will be exhibiting a wide selection of equipment including a pulsating jig which will be displayed alongside information on a wide range of processing equipment, including linear, circular, elliptical, and high-energy and Siebtechnik/HG banana screen systems. Sampling and laboratory equipment will also be featured on the stand.

**TEMA Machinery Ltd**

3 Great Central Way Woodford Halse Northants NN11 3PZ

Tel: 01327 262 600 Fax: 01327 262 571 Email: [sales@tema.co.uk](mailto:sales@tema.co.uk) [www.tema.co.uk](http://www.tema.co.uk)



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**STAND F9**

**TEMA Machinery Ltd**

Centrifuges  
Screening Machines  
Sampling, Crushing  
and Grinding Equipment

# Anaconda gearing up for Hillhead 2014

Anaconda Equipment International offers the complete solution for Crushing, Screening, Recycling and stockpiling Equipment.



**Anaconda Equipment has made some serious headway in the UK market over the last 24 months and will be exhibiting at Hillhead once again to show the latest products from their range. The range of mobile screens has increased dramatically since the launch of the DF410 scalper back in 2010 and now comprises a total of 10 mobile screens as well as an assortment of wheeled and tracked stockpiling conveyors.**



The rapid rise to mainstream screening products is something that was always planned but the rate at which products are selling has taken even the most optimistic within the Anaconda ranks by surprise. Sales Director Con Gallagher recognises the speed at which the product range has grown:



"When you take a minute to take stock of what the team here have designed and built over the last four years you cannot fail to be impressed. We launched our first tracked screen at Hillhead in 2010 and we are coming to this year's show with a very good array of equipment. It is testament to our team back in Ireland

that we are able to stand shoulder to shoulder with the more established companies within our sector and we have plans to extend the range even further over the next 12 months."

At this year's show, Anaconda will exhibit three products on STAND E9. The SR514 two-deck finishing screen has been on the market for the last twelve months but this is the first time it will be on show for a mass audience. The 14' x 5' double deck box offers three-way separation of material and is more widely used for fine sizing of product. Powered by a CAT 4.4 100 HP engine, features include tipping or vibrating grid, variable speed belt controls and minimum set up time to maximise production.

## Machines on Show

Anaconda will exhibit three products on STAND E9.

- The SR514 two-deck finishing screen
- New improved DF512 scalping screen

The Hillhead show is the ideal launch pad opportunity for these new Anaconda machines to the global market. Designing new products in tandem with our dealer network has been a key factor in our success to date.

We look forward to meeting with customers and discussing the features and benefits of our extensive product portfolio.

Anaconda is also set to launch the new improved DF512 scalping screen which has been re-worked to include two or three way separation of material. The new design has all the features of the previous model and will no doubt prove even more popular with customers around the globe.

When asked what does Anaconda look forward to most about Hillhead, Mr Gallagher concludes: "Shows are always a great platform for meeting new customers, spending time with your existing customer and dealers and off course to discuss new projects. It's great to catch up with sales and service teams from around the world and bring them up to speed with what's coming up. The most exciting thing about this year's show though is the position we are now in compared to two years ago in the UK. Anaconda UK and CDP Plant have come on board since then and they have done a fantastic job for us in such a short space of time."

We look forward with anticipation to see what it is Anaconda brings to market as they continue to be one of the most exciting brands to come into the materials handling industry in recent years.

**ANACONDA**  
EQUIPMENT INTERNATIONAL



Ardboe Business Park, Kilmascally Road, Ardboe,  
Dungannon Co. Tyrone. BT71 5BJ  
E: sales@anacondaequipment.com  
www.anacondaequipment.com



www.hub-4.com/directory/12687

# At Hillhead 2014 JCB will highlight the diversity of its range of tailor- made products

**At Hillhead 2014 JCB will highlight the diversity of its range of tailor-made products for the construction, quarrying and recycling industries - with two stands along with live operations in the demonstration area.**

Taking centre stage will be new fuel saving models which all make their UK show debuts. These include: the new 457 wheeled loading shovel, the updated JS360 tracked excavator and a new series of compact excavators.

The new JCB 457 wheeled loading shovel is JCB's first large wheeled loader to meet Tier 4 Final emissions standards thanks to the adoption of a powerful MTU diesel engine that is perfectly matched to the machine's operating duties. The engine contributes to a massive fuel saving of around 16% compared to the previous model. It does this without the need for a costly diesel particulate filter (DPF). The 457 is also the first machine from JCB to utilise the company's next generation JCB CommandPlus cab which will be shown on the stand and offers the ultimate in operator comfort.

It will be joined by the JS360 tracked excavator which has been updated to meet Tier 4 Interim/EU Stage IIIB emissions standards and benefits from a revised cab interior with significantly reduced noise levels for an enhanced operator environment. Also on show is the JS20MH. Powered by the 93kW (125hp) JCB Ecomax engine and fitted with a 5.7 metre straight boom, the JS20MH is tailor-made for excellent material handling performance. The dedicated 5.7m straight boom can be fitted with either a 4m 'goose neck' dipper for maximum reach, or a 3.6 m material handling dipper for maximum attachment functionality.

At the smaller end of the spectrum, JCB will show models from its exciting new fuel-efficient range of compact excavators, including the 85Z-1 zero tailswing version. Among the key features of the new 8.5 tonne model and its conventional tailswing counterpart are: a new Tier 4 Final JCB Diesel by Kohler engine with no costly DPF, 16% lower fuel consumption, a 30° tilting cab for excellent service access, 500 hour greasing intervals. The operator environment is also improved with a 6% more spacious cab and 11% extra visibility.

Visitors will see the full breadth of JCB's equipment for the demolition and recycling



industries and the quarrying and aggregates sector- with purpose-built Wastemaster and demolition specification machines on show. Models from its world leading telescopic handler and backhoe loader ranges will feature alongside further tracked excavator and WLS machines, skid steer and compact tracked loaders, compaction equipment, site equipment and the JCB Workmax 800 utility vehicle.

JCB offers an unrivalled dealer network with 24/7 support and parts supply and a range of finance options. Machines are also fitted with JCB LiveLink - an advanced telematics system using satellite and cellular technology that enables better protection of machines against theft and accurately monitors and improves their performance.

0800 581 761, [www.jcb.co.uk](http://www.jcb.co.uk)



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## Machines on Show

**JS360LCT4 • JS260XD  
JS220LC LR • JS130  
JS145W TAB • 550-80  
540-200 • SSL155  
VMT430-140  
VM132 • 417  
457  
WLS New Gen Cab  
5CX WasteMaster  
Workmax 800 • LT9  
Generator  
3CX Pothole Master  
8018X • 8026  
85Z-1 • 67C-1 • 427  
457ZX • 457HT • 417  
JS20WNH • JS220  
JS360LCXD T4  
VM146 • 300 CTL  
4CXAEC T4**



**STAND D4, Z3**

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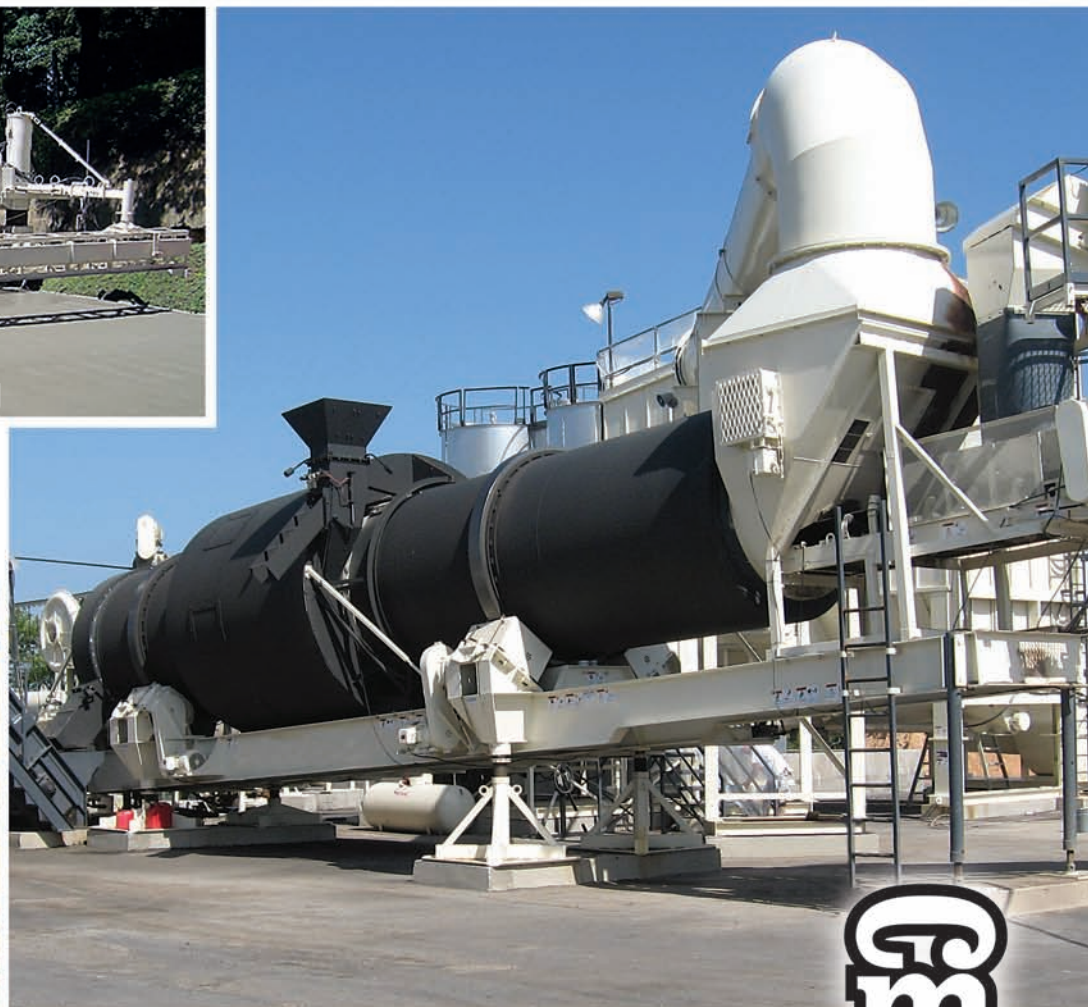
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# Tesab launch the new 8542TBF Tracked Stockpiling Conveyor

**Tesab is a family of engineering companies located throughout Scandinavia and Northern Ireland.**

They have vast experience in the manufacture of equipment for the mining, quarrying, recycling, asphalt and concrete industries.

From its beginnings at Tesab Svenska AB over half a century ago, the company has grown into a truly global organisation. With the acquisition of Mockeln Svenska AB and Trackstack UK Ltd. the company further consolidated its position as a top manufacturer in its field.

On the stand at Hillhead 2014 will be the well renowned and well proven Tesab 623CT, secondary impact crusher now fitted with a Caterpillar Tier 4 engine for the UK and European market.



Also on the stand will be the all NEW 8542TBF from Trackstack, Bulk Handling Solutions. This is a tracked stockpiling conveyor with a large hopper and belt feeder design, which allows feed direct from wheeled loader or from a crusher or screening plant. This heavy duty tracked stockpiler has a high output Caterpillar 4.4 engine fitted as standard and can stockpile material to a height of 9 metres.

## Machines on Show

**Tesab 1200TC Tracked Cone Crusher**

**Tesab 623CT Tracked Impact Crusher**

**Trackstack 8042T Tracked Conveyor**

**Trackstack 8542TBF Tracked Belt Feeder Conveyor**



On the working area at the show Tesab will be demonstrating the New 1200TC tracked cone crusher and a Trackstack 8042T tracked stockpiler.

The Tesab 1200TC is a 1.2 metre cone crusher with Caterpillar C13 Engine designed to give a large reduction and excellent cubical shape in a single pass. The Trackstack 8042T is a 24 metre conveyor capable of stockpiling material to over 10 metres.

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**STAND L4**

**Trackstack**

**TESAB**

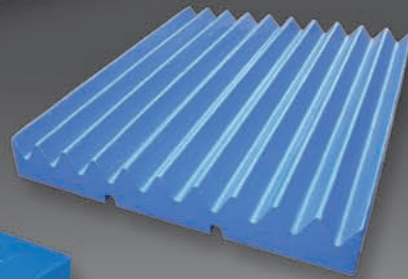
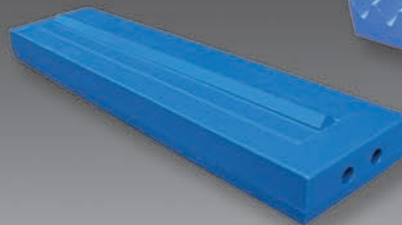


Tesab Engineering Ltd.  
Unit 9, Gortrush Industrial Estate, Omagh, County Tyrone Northern Ireland BT78 5EJ  
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## CDE to launch new contract washing offer at Hillhead

**CDE has announced that the Hillhead exhibition will see the launch of a new contract washing offer to the market in partnership with the company's Contract Washing partners in the UK, Aggregate Processing Solutions (APS).**



**STAND PB10**

The partnership between CDE and APS in the UK offers access to the suite of modular washing equipment manufactured by CDE without the requirement for an initial CapEx investment. Speaking about the new programme Matt Bunting, CDE General Manager in the UK said "Our partnership with APS has developed significantly over the last few years in the UK market and we have noticed a growing demand for off balance sheet investments such as this."

There are a variety of options available to operators through APS including rental, hire to buy and price per tonne contracts. "We can also structure our contracts to allow for an option to buy the equipment at defined periods throughout the contract" explains John Dunne of APS. "This is a popular option as it allows operators to prove the viability of a plant with built in flexibility which allows them to move to a purchase once the individual project circumstances dictate that this is the most cost effective option."

It is the modular nature of the equipment on offer from CDE that facilitates this approach to projects with a variety of mobile and skid mounted machines on offer. "Our equipment range has been constructed with a number of design themes at the very core - rapid deployment, minimal footprint, transfer point technology and quick, easy and safe access for maintenance" explains Matt Bunting. "This ensures that a new CDE washing plant will be up and running and delivering a return on your investment very quickly."

The range of equipment on offer includes the EvoWash sand washing plant, M2500 mobile washing plant, AggMax and RotoMax logwashers, AquaCycle thickener and both a centrifuge and filter press product. The CDE and APS partnership has seen a number of projects installed in the UK over the last few years on a variety of materials from sand and gravel to construction and demolition waste. "The M2500, AggMax and AquaCycle combination has been very popular in recent years as it offers a complete processing solution with a feed arrangement, aggregate screening and scrubbing, sand washing and primary stage water treatment with a very compact footprint a quick set-up time" says John Dunne.

You will find representatives from CDE and APS on stand PB10 in the main pavilion at Hillhead 2014. You can also find out more on the products and services available from CDE by visiting [www.cdeglobal.com](http://www.cdeglobal.com)



**CDE Global**  
Ballyreagh Industrial Estate,  
Cookstown, County Tyrone,  
BT80 9DG, Northern Ireland  
**T: +44 28 8676 7900**  
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***BELL***

## Asphalt Burner Services will showcase the complete Vulcan Burner range at Hillhead 2014

**Asphalt Burner Services manufactures the highly efficient Vulcan burner range for the Asphalt Industry. The company also provides additional services to the asphalt industry such as plant consultancy and service & maintenance.**

After a very successful Hillhead Launch in 2012, Asphalt Burner Services will showcase the complete Vulcan Burner range comprising of our smallest model of 6MW burner through to the immense 35MW burner at this year's shows at Buxton, Hillhead Quarry on the 24th -26th June 2014. During the exhibition there will be a variety of oil and natural gas burners on display.

The Vulcan burner has become the premier choice for efficient asphalt production, since the product launch in 2012, we have been extremely busy with enquiries, sales and installations with over 25 Vulcan burners supplied and operating throughout quarries within the UK. The Vulcan Burner delivers performance where it matters, Fuel Economy, Clean Emissions and Reliability.

Coupled with our outstanding servicing abilities our customers can be assured of low running costs and total commitment from our highly qualified engineering team.

During this year's show, the engineering and sales team will be on site to meet and greet, offer assistance and help on all your asphalt production needs. There will be a host of information available not only on the burner range but also on our service packages, making sure you can get the most out of your existing equipment.

Sales Manager Jodie McCann states, "It was a pleasure to launch and exhibit the Vulcan Burner range to the UK market at the last Hillhead show, the interest and support was phenomenal. We are extremely excited for Hillhead 2014 as we are coming to this year's show, with a much larger presence with the full range of efficient burner models on display."

If you would like to see the Vulcan Burner range at this year's Hillhead Show in June, please do come and visit us on stand E18.



### Machines on Show

**V35 Gas/Oil Burner • V23 Gas/Oil Burner  
V16 Gas/Oil Burner • V11 Gas/ Oil Burner  
V11 Oil Burner • Gas Trains**

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www.vulcanburners.com



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# TEREX Washing Systems to premiere two new Washing Solutions at Hillhead

**Pit and quarry operators can look forward to more innovative ways to wash sand, gravel, aggregates, and C&D waste thanks to two new solutions from Terex Washing Systems (TWS) to be officially launched and showcased at Hillhead 2014.**

Hillhead will provide the stage to showcase the Terex® Aggresand™ Range to include the 165 (up to 250tph) and the latest addition, the new larger Terex® Aggresand™ 206 (up to 400tph), as well as the Terex® Aggrescrub™ 150 (up to 150tph) plant. These new innovative modular wash plants will help to revolutionize the washing market on a global level.

## **3 Aggregates, 2 Sands, 1 Machine**

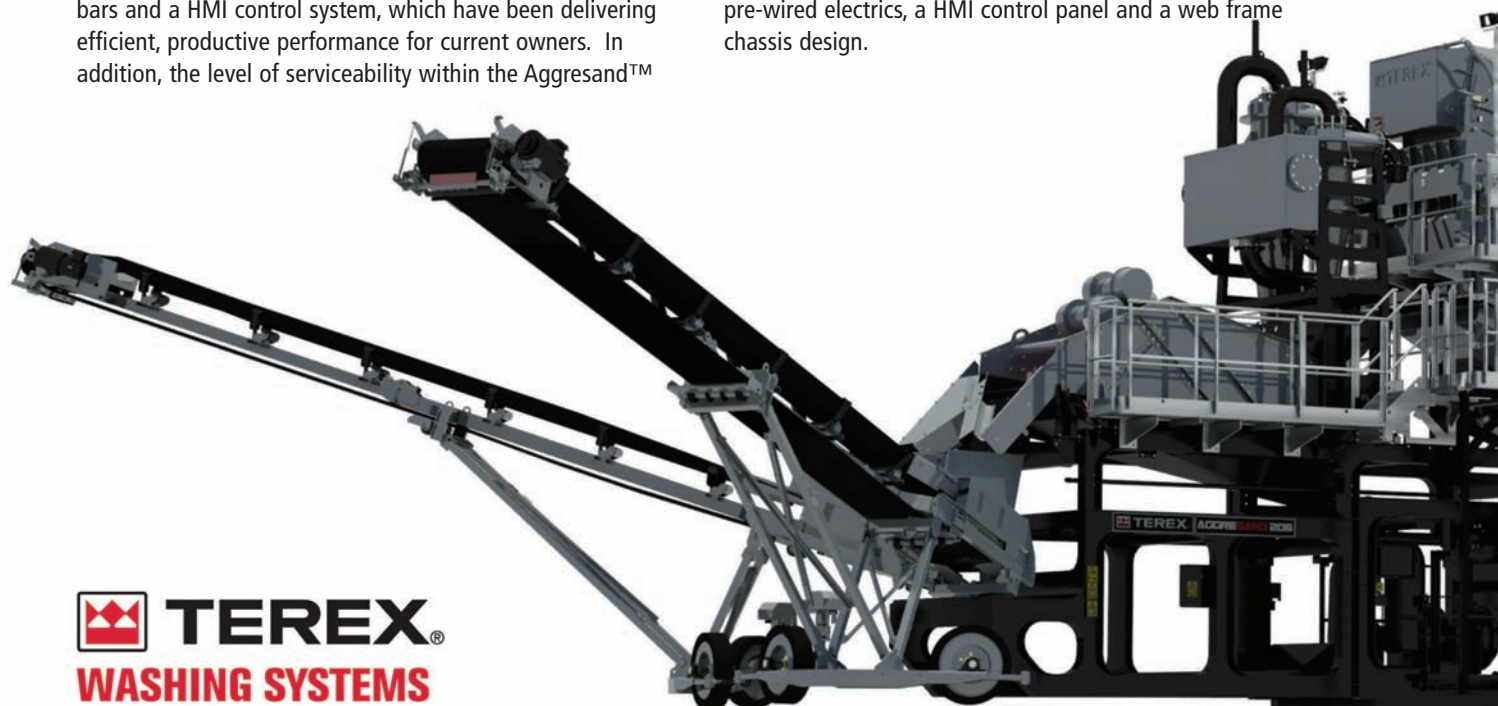
The Aggresand™ 206 wash plant is the larger model of the recently launched Aggresand™ 165 (up to 250tph) model and has greater capacity, up to 400tph, and comprises a 20x6 screen with two and three deck options. The Aggresand™ 206 plant brings modern modular design features, increases productivity (up to 400tph), and shares all the unique features of the Aggresand™ 165 wash plant. Customers will benefit from the unique design which includes full containerization of the machine for ease of transportation, rapid set-up time, pre-wired & pre-plumbed plug & play componentry, isolated spray bars and a HMI control system, which have been delivering efficient, productive performance for current owners. In addition, the level of serviceability within the Aggresand™

wash plant range is unrivalled within the industry with innovative features such as rolling chutes and rolling centrifugal pumps. TWS has also included sensors throughout the machine providing the operator with information on water pressure, cyclone feed pressure, and electrical power consumption, making the operation and management of the machine highly efficient.

## **New High Attrition Scrubbing**

The second new innovative product to be unveiled at Hillhead 2014 is the new Aggrescrub™ 150 (up to 150tph) plant, particularly suited to the C&D recycling market. Key benefits for customers include the improved wear characteristics, reduced costs, and the ability to effectively scrub aggregates and float out clays/silts/lights (wood/plastics) on one chassis. In addition, there are also a number of paddle options available depending on customers' needs, including the traditional hard wearing HARDOX blades in 15 and 30mm variances as well as a new high manganese steel option.

Terex Materials Processing (Powerscreen® and Terex® Finlay) has a long history in the manufacture of logwashers and the experience gained in the field has resulted in what is truly a 21st century aggregate scrubbing plant. It also shares many of the innovative features of the Aggresand™ range including modular design, quick and easy set-up, pre-plumbed pipework, pre-wired electrics, a HMI control panel and a web frame chassis design.



 **TEREX®**  
**WASHING SYSTEMS**

## Seamless Integration

Another unique benefit to customers is the ability of the Terex® Aggresand™ wash plant and Terex® Aggrescrub™ 150 plant to combine to provide the perfect solution for customers dealing with recycling applications as well as pit owners with high agglomerations of clay. The innovative, intelligent and user-friendly control system on both plants allows full integration between the two systems through the connection of a single plug-and-play cable. Through this pioneering control system, seamless communication allows the plants to work as a single entity with all interlocks including start-up and shutdown sequences automatically synchronizing, which further minimizes the amount of on-site installation & commissioning required. Indeed the Aggresand and Aggrescrub combination is set to become the benchmark in modular wash recycling plants for years to come.

Hillhead will provide the first opportunity for customers to see firsthand these innovative washing solutions. A team of skilled engineers, applications and sales technicians will be there to provide expert advice and guidance with your specific requirements.

For more information on these systems and our full product portfolio, log onto [www.terex.com/washing](http://www.terex.com/washing)



## Machines on Show

**Aggresand 165 / 206**  
(Up to 250 & 400tph)

**Aggrescrub 150**  
(up to 150tph)



**STAND H6**

**Terex Washing Systems**  
200 Coalisland Road,  
Dungannon,  
Co.Tyrone,  
N.Ireland. BT71 4DR  
T: +44 (0) 28 87 718 500  
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**Sand Washing Solutions at Hillhead 2014**

**Celebrating more than 25 years in business Dernaseer returns to Hillhead this year with its range of washing plant systems designed for the sand & gravel, crushed rock and C&D recycling industries.**

**STAND Q5**

As well as its washing screen range visitors to Hillhead will be able to see Dernaseer's range of compact cyclone sandwashers which are used to efficiently wash sand, reclaim fines and dewater sand in a modular, self-contained unit. The DSP range has been designed to treat sand to meet standards such as grain size, cleanliness and consistency.

The range has proved popular due to its ease of operation and great value for money and plants have been supplied to customers throughout the world.

**Contact: Martin Conway**  
**T: +44 (0)28 8776 7646, M: +44 (0)78 098 64869,**  
**E: sales@dernaseer.com www.dernaseer.com**

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## Do More With Safer, Simpler and Smarter Processing Solutions



McLanahan Corporation knows how important it is for its customers to be more efficient, more productive and more profitable in today's tough marketplace. By designing custom engineered process solutions, the company is able to provide producers with equipment for all of their processing needs - from quarry face to water management.

At Stand PA13 during Hillhead 2014, McLanahan will be represent its full line of wet and dry processing equipment with 3-D models of equipment used for crushing, feeding, washing, classifying, dewatering, screening and scrubbing.

During the show, sales and engineering staffs will be on hand to answer questions on how McLanahan can provide a custom engineered solution for your application and how the company can help you maximize your profit by doing more with your existing resources.

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**STAND PA13**



# The new innovative WS2.10 polyurethane wear products range at Hillhead 2014

Tema Isenmann is widely recognised as a forerunner in the design and manufacture of industrial screening systems. At Hillhead the company will exhibit their full range of systems including woven wire, harp sieves, fan sprays, rubber and polyurethane in tensioned and modular formats.

Of particular interest to the visitor will be:

- Line Tech chutes
- Isecord
- X-girder with WS 2.10 magnet system
- WS 2.10 model with gaiter
- C-girder module No.2 PU/wire
- WS85

The new innovative WS2.10 polyurethane wear products range is a major development for the Quarrying industry. The WS2.10 patent pending attachment system utilising the highest quality wear resistant polyurethane makes it one of the most innovative products ever developed for the Quarrying industry. WS2.10 offers ease of installation, reduction of maintenance cost and a much safer way of installing and removing wear liners.

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# INTRODUCING THE **NEW** TEREX FINLAY 893 SCREENER



**Stand: L6**

The Terex® Finlay 893 is a highly versatile and aggressive machine engineered and built for working in large scale quarrying, mining, construction and demolition debris, topsoil, recycling, sand, gravel, coal, ore and aggregate applications. The plant has the capacity to process at a rate of up to 800 tonnes per hour and can be fed either by a tracked mobile crusher, shovel or an excavator.

Depending on the application the working angle of the aggressive screenbox can be hydraulically adjusted to between 14 – 18°. A key feature of the machine is the capability to change the working angle of the hopper/feeder. The working position can be lowered so that it can work with ease with a mobile crusher. The hopper/feeder working position can be raised to provide a reduced feeder angle when operated in direct mode from an excavator or shovel.

The screenbox top deck can be fitted with a variety of screening media including; Mesh, Punch plate, bofor bars & Tines. The bottom deck can be fitted with mesh, punch plate & cascade fingers.

This fully self-contained plant can be hydraulically folded and ready for transport in less than 30 minutes making it the ideal machine for large scale contract screening projects where a highly productive and dependable screen is paramount.

## Features:

- ▶ Versatile aggressive screen box can be easily adapted to suit many applications.
- ▶ Modular configuration screen box with 6.1m x 1.8m (20' x 6') top deck and 5.5m x 1.8m (18' x 6') bottom deck screen.
- ▶ Screen box angle can be hydraulically adjusted to an angle between 14 – 18°.
- ▶ Screen box discharge end can be hydraulically raised 600mm (24") to facilitate efficient and easy media access and changing.
- ▶ All stockpiling conveyors are hydraulic angle adjustable with hydraulic extending head sections for maximum discharge & stockpile height.
- ▶ Apron feeder angle adjustable, lower position to accommodate crusher feed, high position provides reduced feeder incline angle when operated in direct feed mode from excavator/loader.



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

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Terex® Finlay, Drumquin Road, Omagh, Co. Tyrone, Northern Ireland. BT78 5PN



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# How are you managing?



Today, most responsible business owners would agree that staff training is key to maintaining a safe and efficient workforce. Yet we still see countless stories in the news of accidents occurring as a result of best practice being neglected. The tragic consequences are a stark reminder to businesses that they must do all they can to ensure that safety standards are upheld.

One major provision, though often overlooked, is effective management of workplace transport. Of course, operator training is essential but those responsible for overseeing operations and enforcing safety standards must not be forgotten in the training process. Whatever the equipment, whatever the industry, well managed operations make your business safer and more profitable.

Mentor highlight three reasons why good managers and supervisors armed with the relevant skills and knowledge will boost safety and productivity.

## **Stay safe - it benefits everyone**

A safer working environment, once created, has to be nurtured. Managers and supervisors need the confidence to uphold and actively promote good practice, to ensure that the safety of the environment is not neglected through familiarity or complacency. Though an obvious benefit to the company, the value of a safe workplace to its staff shouldn't be underestimated. Fewer accidents, incidents and disruptions lead to improved morale within the workforce, which in turn lends itself to improved productivity.

## **Stay legal - now and in the future**

There are many legal obligations placed on companies to ensure that their staff are trained to carry out their jobs safely. In this respect, by ensuring that managers and supervisors are adequately equipped to oversee operations, companies can be sure that they comply with the relevant regulations.

Though staff training is an immediate requirement, it should also reduce the risk of accidents and any subsequent potential legal disputes in the future. Generally speaking, the more proficient the staff, the less likely the company should be to employ bad practice, and this is particularly relevant to those in supervisory roles who oversee potentially dangerous operations every day.

## **Stay profitable - prevent unnecessary expenditure**

Thousands of pounds can be saved by reducing the risk of accidents. Stock and equipment damage, lost time, replacement staff and legal fees are all detrimental but there are also hidden costs that can impact on a business financially, things such as damage to company reputation and staff morale.

Managers and supervisors at companies who use any type of materials handling, access or mobile plant equipment don't need to be able to operate the equipment they oversee, but if they understand the principles of using the machines safely and are confident enough to intervene when risks are being taken, they can play a crucial role in helping to avoid unnecessary - and very costly - accidents.



## **Case Study**

Managing Forklift Operations -  
The survey says...

In September 2013, the Fork Lift Truck Association and Mentor Training conducted Britain's biggest ever survey into forklift truck safety, designed to test the knowledge of hundreds of operators, pedestrians, managers and supervisors. The results were as follows:

**Achieved pass mark**  
Operators/pedestrians 71%  
Managers/supervisors 34%  
**Achieved full marks**  
Operators/pedestrians 15%  
Managers/supervisors 0%

The results suggest that forklift operators and their colleagues on foot were reasonably well versed in the knowledge required to work safely but that their managers lack the ability to identify and eliminate risky practice, leaving them unable to address any potentially dangerous skills gaps.

Overseeing a company's forklift operations is a key role, and it requires specialised skills and knowledge. Last year, Mentor Training launched Managing Forklift Operations, a course designed specifically for managers and supervisors who need to safely oversee the use of forklift trucks in the work place. Having recently trained their 1000th delegate, the demand for the course demonstrates a growing perception of how necessary and how valuable it is to train staff to manage effectively.

Managers and supervisors are pivotal in setting the safety culture at work. The standards they accept and the processes they tolerate are often what become the norm, so it is crucial that they are provided with the relevant skills and knowledge to confidently maintain and promote best practice. If your managers and supervisors don't understand the dangers, they can't protect your employees or your business.

For more information on training for your managers and supervisors, please contact Mentor. Their Managing Forklift Operations course has recently received approval from IOSH and is now available either in its existing format or as part of IOSH Managing Safely Forklift Operations. Following its success, Mentor are currently developing Managing Plant Operations, for those who oversee the use of plant equipment. For further details, please call Stuart Taylor on 01246 555222 or visit the Mentor team at Hillhead on stand PA14/PB13 from 24th-26th June at Hillhead Quarry, Buxton.



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



**Maximus Crushing & Screening - the premier manufacturer of materials handling equipment from Northern Ireland.**

3D Steelwork Ltd was created in 2004 by Mr. Shane O'Neill. The company initially started out as a structural steel company and soon became the premier structural steel company in Northern Ireland - engaged in the manufacture and supply of products and services used within the construction industry across Ireland and the UK.

In 2008 the company diversified into the design, manufacture and supply of high quality screening and conveying machinery for use in the quarry, mining, construction and materials handling industries. This diversification came under the newest and freshest brand name on the market - Maximus Crushing & Screening.



Maximus Crushing & Screening has already established a reputation for producing high quality, reliable, heavy duty vibrating screeners and conveying systems and has brought to market 10 new tracked mobile screening machines, a new jaw crusher and a range of static and mobile conveyors and screening units. In the last 3 years, over 400 screening plants were sold in more than 20 countries all over the world and are successfully in operation in a variety of climates and harsh working conditions.

We will be showcasing the new Maximus MXC-2 Cone Crusher at the Hillhead Show. This will be the official launch and world premiere of the MXC-2.

Our ever expanding product range has led to an exciting growth period for the company - currently with 90 employees and aiming to increase our workforce even more over the coming years.

Below are details on a few of the machines we are currently producing;

#### **MXJ-1 Jaw Crusher**

The MXJ-1 continues to deliver the same quality, productivity and reliability for which Maximus has become renowned throughout the world.

The MXJ-1 is a high performance primary jaw crusher for quarrying, mining, recycling and demolition applications. The powerful hydraulically driven 1150\_750 jaw box has been developed for the most demanding applications with productivity and reliability to the fore. The heavy duty construction used in the machine gives added strength and durability which our customers have come to expect from Maximus equipment.

The MXJ-1 is equipped with a huge feed hopper with 10 m<sup>3</sup> capacity, a grizzly pre-screening grid and a large 1200 mm main conveyor belt which gives the largest stockpile heights in its class. The Jaw crusher has an inlet opening of 1150 x 750 mm (46" x 30") and is equipped with hydraulic wedge adjustment and reversible hydrostatic drive. The powerful CAT C9 261 kW (350hp) engine allows the MXJ-1 to perform with ease in the hardest conditions.

The MXJ-1 has been designed with easy access for maintenance and service in mind. The electrical system is modern and user friendly, plant set-up is fast and flexible, and the machine has a transport weight of just 57 tons.

#### **Heavy duty mobile scalper 620**

The Maximus 620 is a heavy duty, high capacity mobile scalper designed for large scale operators and capable of screening a wide variety of material in the harshest conditions. It is designed to cope with the heaviest applications and can be used in construction and demolition waste, primary crusher circuits, iron ore, aggregates, coal, recycling, heavy rock and topsoil.

The Maximus 620 is equipped with a 225 Hp (168 kW) CAT C6.6 Diesel engine with shut down protection, a heavy duty hopper with 8.7 m<sup>3</sup> (11.7 yd<sup>3</sup>) capacity and a high energy 2 Bearing 20 x 6 screenbox which rises at the lower end for bottom deck access for maintenance or service.

The tail conveyor is fitted with a 1.6 m (63") wide chevron belt and 2 integrated side conveyors. All belts can be folded hydraulically for transport

The Maximus 620 is an extremely versatile screener with many options available with a quick set-up time upon arriving at the jobsite.

#### **522T Vibrating Screener**

The Maximus 522T is the class leader other triple decks aspire to. With class leading production capacities and the largest combined screening area available in today's market, the Maximus 522T is the obvious choice for medium to large scale operators who need high capacity and high specification aggregate screening capabilities.

The massive screening area of the 6.7m (22ft) x 1.52m (5ft) top and middle decks and the 6.1m (20ft) x 1.52m (5ft) bottom deck, in combination with the Maximus heavy duty, high energy screening configuration, is specially designed for fine product separation.

A patented hydraulically folding auxiliary conveyor, which reduces set up time and eliminates the need for a crane.

Class leading stockpile heights and class leading feeder capacity make the 522T the number one choice for the serious aggregate producer.



## Maximus T80-48 Track Conveyor

The MAX T80-48 is the largest conveyor in our range and is designed for ease of mobility on site. It is manufactured with a highly robust chassis for optimal strength in difficult working conditions. The T-Series of conveyors are designed to optimise stockpile capacities and minimise on-site material handling costs.

The hydraulic folding head section in the MAX T80-48 allows for fast efficient road transportation and the machine has a typical set-up time off less than 10 minutes.

The T80-48 has a 48" (1220mm) wide belt and is 80' (25m) in length. It comes with a powerful Cat C2.2 engine and has hydraulically adjustable feed boot and head section heights. The T80-48 has a number of options available, including radio control tracks, electric drive, dust suppression, etc.

## Maximus MXC-2 Cone Crusher

The MXC-2 cone crusher is the latest design and engineering innovation from Maximus Crushing & Screening and is a continuation on our focus for quality, durable, reliable machinery with optimal production capacities. The MXC-2 is a medium to large tracked mobile cone crusher and comes equipped with a 1200mm (47") MSP300 high capacity cone. The MXC-2 is ideally suited to secondary crushing applications such as



taking feed from the MXJ-1 primary jaw crusher and provides excellent reduction ratios, throughput potentials and finished material cubicity.

The MXC-2 comes with a unique Webasto lubrication oil heating system built in as standard in the lube tank. This heating system can be pre-set to heat the lube oil up to 2 hours in advance of the machine starting time in 7 day cycles.

The powerful CAT C13 328 kW (440hp) engine allows the MXC-2 to perform with ease in the hardest conditions.

The unveiling of the MXC-2 at the Hillhead Show in Buxton is an exciting leap forward for our company and will lead to many new opportunities for us, in terms of potential customers and dealers.



**STAND C22**

We also produce a range of material handling equipment - track and radial conveyors, ship loaders, static dry and washing screens - all of which can be viewed on our website.

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**VISIT US AT  
STAND PA13**

## Terex Finlay announce an exciting line up of new model launches at Hillhead, 2014



**"We are looking forward to attending the Hillhead show. We've enjoyed good levels of business and exceptional levels of growth in the UK in the past couple of years, commented Nigel Irvine, Terex Finlay's sales and marketing Director.**

The timing for the show has worked out perfectly as we introduce a range of new machines to our portfolio of crushing and screening and the market place. Literally every machine that we will be exhibiting at the show will be a new product launch, launched in the past six months or a preview of a machine that will be launched later this year.

From our 8-Series screener range we will be exhibiting the 893 heavy duty screen that we launched early in the year. This is our largest forward facing screen and will be a dominant presence on our stand. Another new addition to our 8-Series range will be the newly revamped 883+ heavy duty screener. We're delighted to be launching this machine at the Hillhead as the current model is the thorough bred work horse, in its class, on a global basis. We've previewed the machine to our international customer base at a number of events and we're expecting a positive response from the market place for the machine. We will also be demonstrating the new 883+ screener with a Spaleck screenbox in the recycling area at the main entrance to the show. From our 6-Series range of inclined screens we will have a new 693+ model. We've revamped this popular and enduring model to give it a more compact transport envelope. We're excited by the buzz and interest that has been expressed in this model.

Our crusher line up is equally impressive. The show will mark the public debut of a new variant of our successful and proven C-1550 cone crusher. We're excited about the capabilities and possible configurations of this machine. It will have a dominant position on our stand and is sure to be one of the key attractions, not just at our stand but the show overall. Joining the C-1550 in making its first show appearance is our recently launched I-100RS impact crusher. Despite being one of the smaller machines in our portfolio it packs a real punch and is a firm favorite of the owner operators who are currently using the machine in their operations. Our crusher line up on the booth is completed with our new J-1170AS jaw crusher. This new variant of this popular model features an onboard sizing screen and will be launched later in 2014.

We will have four machines working at the show. In the recycling area will be our 883+ Spaleck recycling screener. The main working display of the show is sure to be one of the talking points of the show - we will have diesel/electric versions of our class leading J-1175 jaw crusher, C-1540 cone crusher and 694+ working together.



### Machines on Show

#### Working area:

J-1175E jaw crusher, C-1540E cone crusher, 694+E inclined screener

#### Recycling area:

883 Spaleck heavy duty screener

#### Main Booth (static display):

893 heavy duty screener, 883+ heavy duty screener, 693+ Inclined screener, C-1550 cone crusher, J-1170S jaw crusher, I-100RS impact crusher.

Our engineering and new product development teams have worked extremely hard in getting these machines into production, the Hillhead show is the perfect platform from which to introduce the machines to the market place." said Nigel Irvine, Sales and Marketing Director.

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Fax: 028 82 244 294  
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# Record sales and success at Conexpo - now Smiley Monroe sets its sights on USA belt base

**Smiley Monroe recently returned from Las Vegas, Nevada, where the company was exhibiting at CONEXPO-CON/AGG and discussing potential locations for its first North American conveyor belt depot.**

Following a very successful EXCON India show at the end of 2013, Smiley Monroe's product specialists and experienced problem-solving engineers were showcasing their ToughFlex Series Conveyor Belts - from impact and puncture resistant Straight Warp belt and highly customized chevron belts with seamless V-joints, to mechanically fastened replacement belts with the easy-to-use screw type pin system. Also on display were ceramic chute liners, OEM Modular Belt Cleaners, produced with the customer's own logo and colour, to compliment their brand, energy-saving polymer King Rollers and Belt Buddy, the rapid repair resin for conveyor belts and industrial rubber tyres. Visitors to Smiley Monroe's booth received a copy of their updated Conveyor Belt Handbook, a practical guide covering a range of topics, from storage and handling to optimizing the operational lifespan of belts.

CONEXPO was also chosen for launching a dedicated product microsite for Smiley Monroe's polymer King Roller, which brings together all online resources for this revolutionary conveyor idler. This new microsite ([www.kingroller.co.uk](http://www.kingroller.co.uk)) uses 'responsive design' to provide an optimal viewing experience - easy reading and navigation with a minimum of resizing and scrolling - across a wide range of devices, from mobile phones and tablets to desktop computers.

Vaughan Monroe, Managing Director of Smiley Monroe, told us: "CONEXPO is an ideal platform for not only showcasing our company, presenting our latest developments and



growing our global business contacts, but for gaining an overview of the market, to accelerate decision making. Opening a belt depot in the U.S is our response to the growing demand for a local service from our North American customers, which fits with our successful strategy of staying close to our customers and responding quickly and effectively to their ever-changing needs. We've used our competitive advantage to win business from construction equipment manufacturers in this key market, where I'm delighted to say we're close to announcing a major new belt supply contract. 2014 sales are shaping up to be even better than last year, which was record breaking for us, however, to meet the challenges that such growth presents, we're continuing to recruit and are about to make our largest investment to date in the UK."

Smiley Monroe now exports to 40 different countries, with a growing distributor network spanning North and South America, Europe and Australasia. In the past 12 months they've shipped enough Hot Spliced Conveyor Belts to reach from London to Paris, Las Vegas to Los Angeles or Berlin to Frankfurt.

Smiley Monroe's Marketing Manager, Tim Monroe, adds: "It was great to see such a confident mood at this first big industry exhibition of the year. CONEXPO organizer, AEM, said attendance was up on the 2011 show and visitor traffic to our booth certainly exceeded expectations, with very high inquiry levels and serious interest from both the North and South American markets - particularly from Brazil, Peru, Ecuador and Mexico. Events like these are prime opportunities for catching up with customers and old friends, exchanging ideas and information and exploring synergies with other exhibitors. I'm happy to say we're close to appointing nationwide distributors for both our King Roller and Belt Buddy products. We've already participated in our second show of the year, EXPOMIN in Chile, the world's biggest mining show outside the U.S., where we were supporting our Santiago-based distributor. The US, Germany and Austria in particular are key growth export markets for us, so our marketing strategy and the trade fairs that we're investing resources in reflects this."

Celebrating 35 years in business, Smiley Monroe is the global market leader in the production of Hot Spliced Conveyor Belts and CNC Cut Rubber Parts for the Mobile Crushing, Screening and Recycling Sector and has just been named in '1,000 of the most exciting small and medium-sized companies in the UK' by London Stock Exchange Group. You can catch up with Smiley Monroe at Maskin Expo and Load Up North trade fairs in Sweden, Steinexpo in Germany and next year at Intermat 2015 in Paris.



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## Liebherr showcases new products at Hillhead

Liebherr Great Britain will be exhibiting a range of products including Excavators, Loaders, Bulldozers, Concrete Mixers and Truck Concrete pumps. As well as static displays they will have working machines in the adjacent demonstration area.

Launching into the UK Liebherr will be showing three new products.

- A compact 14t excavator (R914c) with a 1600mm tail swing and easy access servicing from ground level. Ideal for restricted site work such as road works or site re-development.
- A larger 22T excavator (R922) with its highly efficient Stage IIIB compliant engine and fully air conditioned cab. This powerful machine is ideal for earthmoving, trench, pipe and cable work.
- The Liebherr Bulldozer (PR 736) is a 22T machine with a 5m<sup>3</sup> blade and highly efficient Hydrostatic Drive system keeping fuel use from the Stage IV compliant engine as low as possible.

The Concrete Division will show the new Truck Mounted concrete pumps with the innovative variable outrigger system for greater flexibility in tight sites as well as variations of Truck Mixers on different manufacturer's chassis.

There will also be a larger R956 55 tonne excavator and the Super Mass Excavator (78 tonne) R970 SME to complete the range from compact top Super Mass excavators. These will be complemented by the L586 wheeled loader with its 5.5m<sup>3</sup> bucket capacity and 20 tonne tipping load.

Liebherr Rentals will demonstrate the range of products available to hire when overload capacity or specialist requirements mean an extra machine is needed. Liebherr technical and after sales specialists will be available to answer any questions you may have on operating or servicing the machines.



**STAND Z5**

### Machines on Show

#### Earthmoving

R956 excavator

R922 excavator

R914 Compact excavator

PR736 bull dozer and six way blade

L566 wheeled loader

#### Concrete

2x truck mixer

Truck mounted concrete pump

#### Rental Machines

2x machine working the rock face demonstration (to be decided)

1 R970 SME super mass excavator

#### Liebherr Shop

## LIEBHERR

Liebherr Great Britain

Normandy Lane, Stratton Business Park,  
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01767 602100 [info.lgb@liebherr.com](mailto:info.lgb@liebherr.com)

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## Weighbridge systems highlighted at Hillhead 2014



Weightron Bilanciai (stand M7) are showcasing their extensive range of weighbridges, touch-screen driver terminals, weighbridge software and system peripherals, including automatic number-plate cameras, traffic lights & barriers, card readers and radiation detection systems.

The modular Eurodeck weighbridge has an enviable reputation for long-term reliability and performance in the harshest of environments. Available in a range of standard lengths from 9 to 18 metres and capacities up to 120 tonnes, the Eurodeck can also be supplied with bespoke sizes for the weighing of large on-site vehicles up to 150 tonnes. Both steel and concrete -steel composite models are available.

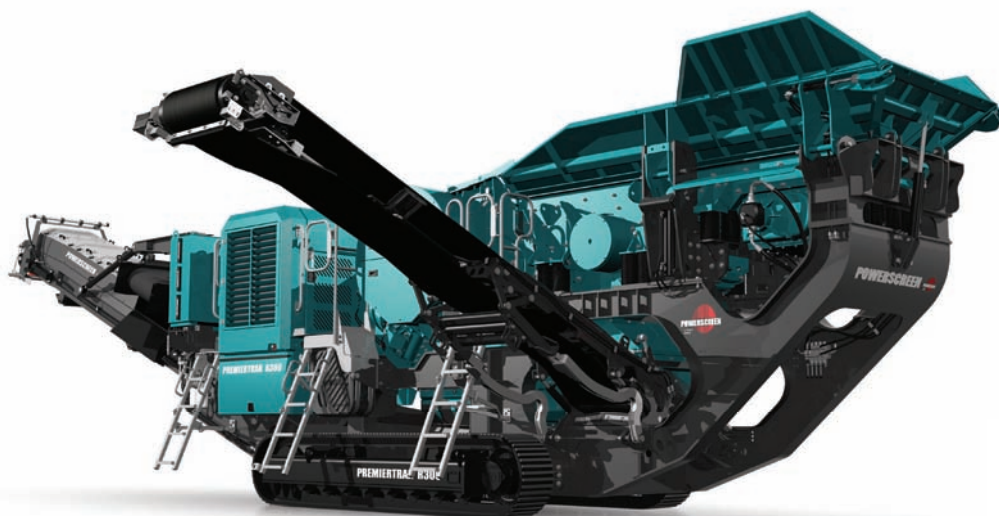
The Diade 2050 driver terminal and Winweigh weighbridge software provide unrivalled weighing versatility and vehicle management. The 2050 can be configured for specific applications and a series of pictograms guide drivers through the weighing process. Winweigh offers seamless integration with a range of standard software programs, providing the ultimate in data capture and management.

Weightron will also be highlighting their extensive service and support capabilities for all makes of weighbridge, including their web access facilities for clients.

[sales@weightroncb.co.uk](mailto:sales@weightroncb.co.uk) [www.weightron.com](http://www.weightron.com) Tel: 01246 360062



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## Powerscreen launch a number of innovative new products at Hillhead 2014

**"Powerscreen will use Hillhead 2014 as a platform to launch a number of innovative new products," said Damian Power, Powerscreen Global Product Line Director. "Traditionally, Hillhead is always a successful show for Powerscreen and the industry and we are looking forward to the 2014 show."**



Visitors to the demonstration area will see four new machines working. The Powerscreen® Premiertrak™ 300 HA jaw crusher and Powerscreen® Warrior™ 2100 screen will both be working independently, while the new Powerscreen® Premiertrak™ 600 diesel electric jaw crusher will feed the new Powerscreen® Maxtrak™ 1150 cone crusher.

The Powerscreen stand will showcase an array of existing and newly released products, including a Powerscreen 1000 Maxtrak cone crusher, Powerscreen Premiertrak 300 HR jaw crusher, Powerscreen® Powertrak™ 750 scalping screen, a Powerscreen® Chieftain™ 2100X screen specially modified for the biomass market, and a Powerscreen® Trakpactor™ 320SR impactor. These machines will provide visitors with a fantastic overview of the comprehensive Powerscreen product portfolio.

### Maxtrak 1150 cone crusher

The range of Powerscreen tracked mobile cone crushers has broadened with the launch of the mid-sized Maxtrak 1150 unit. Targeted at quarry operators and contractors alike, the Maxtrak 1150 model builds upon the success of the Maxtrak 1000 and 1300 models offering unrivalled performance, production and versatility. The crushing action of the Maxtrak 1150 model also delivers the same superb product shaping for which the other Powerscreen cones have become world-



renowned. The machine will be offered in two key configurations: a direct feed model and a pre-screen version which enables customers to handle dirty feed material and achieve higher production rates. With a choice of strokes and four liner options which are all compatible with a single upper frame, the Maxtrak 1150 cone crusher can be easily configured for all applications. Feed sizes of up to 205mm are possible into the 225kW cone chamber which is driven directly by a fuel efficient 331kW Scania DC 13 engine that complies to the latest Stage IV emission regulations. One of the most impressive features of the pre-screen model is the patented hydraulic folding system for converting the machine into a direct feed layout in minutes delivering unparalleled flexibility to the end-user.

### Premiertrak 600 jaw crusher

The productivity requirements of customers coupled with high expectations have led to the development of the Premiertrak 600 jaw crusher which comes to market in two possible configurations: diesel-hydraulic and diesel-electric. Both versions are designed and constructed to deliver maximum production and performance with minimum downtime and running costs. The diesel-electric machine can be powered directly from an on-site source which further reduces the cost of operation. At the heart of the Premiertrak 600 crusher, is a 1200mm x 820mm modern jaw chamber incorporating robust construction with many user-friendly features including a fully hydraulic CSS range of 75mm-200mm and a reversing system to clear blockages quickly for increased uptime. The aggressive stroke and high inertia flywheels provide high production rates and excellent reduction ratios. With speed and safety in mind, the Premiertrak 600 crusher can be fully set-up from ground level due to its hydraulic folding and locking hopper system, in combination with the hydraulically lowering product conveyor. Like all other products in our mobile jaw range, the Premiertrak 600 model hosts an array of options which are configurable for each and every possible application.

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Michelle Murphy  
T +44 (0) 28 877 18721  
E [michelle.murphy@powerscreen.com](mailto:michelle.murphy@powerscreen.com)  
[www.powerscreen.com](http://www.powerscreen.com)



# Doosan Construction Equipment at Hillhead 2014

**The Doosan Construction Equipment stand and working displays at the Hillhead 2014 Exhibition from 24-26 June 2014 will provide visitors with a demonstration of the company's comprehensive range of high performance products for quarrying and mining markets, featuring products from Doosan Heavy, Bobcat, Doosan Portable Power, Montabert and Geith.**

The stand display will feature the Doosan Heavy range of excavators, wheel loaders and articulated dump trucks; Bobcat compact loaders and compact excavators; portable compressors and generators from Doosan Portable Power; a selection of Montabert hydraulic breakers and Geith branded buckets and quick couplers.

There will be continuous live demonstrations of Doosan Heavy equipment in the Quarry Face Demo Area. Many of the machines on the stand and in the Demo Area will be shown with all the options required to meet full quarry specifications.

## **Doosan Heavy**

Among the Doosan products on show will be the 52 tonne DX530LC-3 excavator and the DL420-3 wheel loader.

The DX530LC-3 model offers the strength and productivity needed for heavy duty work such as large-scale earthmoving, moving rock, pulling down buildings, secondary breaking and loading haulers found on quarry, mining, highway, aggregate, demolition, utility and general construction projects. The DX530LC-3 excavator is powered by the well-proven Isuzu AL-6WG1X Stage IIIB compliant diesel engine, providing 290 kW (389 HP) of power at 1800 RPM.

With a bucket capacity of 4.0 m<sup>3</sup>, the DL420-3 wheel loader is 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. Part of the family of Stage IIIB compliant large wheel loaders from Doosan, the DL420-3 wheel loader combines high engine power output and SCR technology with a new ZF transmission and several other features to minimise fuel consumption.





## Bobcat Compact Equipment

The Bobcat display will include the first showing at Hillhead of the new E85 8 tonne excavator, powered by a Yanmar 4TNV98C-VDB8 Stage IIIB compliant diesel engine providing 44.3 kW of power at 2100 RPM. The new Bobcat E85 excavator offers one of the best fuel efficiencies for this size of machine on the market.

Alongside the 10% increase in power over the previous E80 model it replaces, the E85 excavator has a significantly increased bucket digging force of 61.8 kN, 13% higher than that of the E80 model. The bucket breakout force in the E85 excavator is 6.3 tonne (ISO), while the arm breakout force is 4.4 tonne (ISO) with the standard 1.7 m arm. Maximum digging reach is 6.92 m at ground level in the standard configuration and the maximum digging depth is 4.18 m.



## Doosan Portable Power

The products being shown by Doosan Portable Power include the large 12/250 Stage IIIB compressor and the G100-IIIA Stage IIIA compliant generator.

The 12/250 model is part of a family of five large compressor models all sharing a common design and offering free air deliveries from 21.5 to 30.0 m<sup>3</sup>/min. The compressors are powered by the Cummins QSL9 Stage IIIB engine using EGR, DOC and DPF after-treatment technologies. Although dimensionally smaller than its predecessor, the 12/250 compressor offers a higher flow: 25 m<sup>3</sup>/min compared to 23.5 m<sup>3</sup>/min previously.

Like the 12/250 compressor, the G100-IIIA (100 kVA prime power) generator offers robustness and reliability, high performance and a wide choice of features. Of particular interest is the innovative fuel tank frame system offering a containment base integrated as standard in the frame to ensure 110% fluid containment capacity. The G100-IIIA generator has a standard fuel capacity offering a minimum of 12 hours of autonomous operation (at 75% of the load), while a 24-hour onboard fuel tank configuration is available as an option.



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# Sir Ranulph Fiennes set to launch Finning 'built for it' stand at Hillhead

**Sir Ranulph Fiennes, the world's greatest living explorer will be making a guest appearance on the 'Built For It' themed Finning Caterpillar Stand Z4 to launch Hillhead 2014. He will appear alongside a great line up of Caterpillar equipment including Rover, the Antarctic D6N that has made a successful return from the Coldest Journey.**

Stars of the show will be the new Cat C Series articulated dump trucks, the Cat 336 hybrid excavator and the M Series wheel loaders, which will make their European market debut at the show, both on-stand and in the exciting demonstration area.

Already making a big impact in the UK market with orders secured for fleets up and down the country, Hillhead will be the first show where operators and fleet managers will be able to get up close to the Cat 730C and Cat 725C units. Featuring new engines, the performance and fuel economy has been significantly enhanced, making the C Series attractive to both the contractor and plant hire market.

First impressions of the high end Cat 730C with new traction control and high performance retarder, see the unit as a game changer for the industry, so visitors to the stand will be in for a treat.

With Hillhead attracting visitors from across Europe, Caterpillar and Finning have also chosen the show to launch the brand new Cat 966M and 982M wheel loaders, which will be in action at the live demonstration area.

With the new wheel loader line-up, Caterpillar has added some exciting performance enhancing features, proving that the wheel loader range is built for any application. In line with the 'Built For It™' theme the new range boasts huge fuel and performance benefits, with 10% lower fuel consumption compared to its predecessors. With other design changes in the frames, linkage, hydraulics and powertrain, the



M Series marks a major change for end users in the UK. With deep system integration of the new features and further axle and hydraulic improvements, even operators that have loved the previous models will be clamoring to get a first glance of the M Series.

But for those that really want to see how Caterpillar equipment and Finning can combine to ensure solutions are 'Built For It™' the star of the show, joining twelve other machines including the Cat 374 will be the D6N, known as Rover. Returning from a record-breaking expedition to Antarctica, Rover is the ultimate bespoke machine, that has withstood severe weather conditions and temperatures to return safely from Antarctica.

Rover will also be joined by Finning Engineer Richmond, who will be on stand to explain how all of the hundreds of modifications helped them to tackle winter crevasse fields, the likes of which are rarely encountered by human and machine.

Pulling the whole 'Built For It™' themed stand together will be a number of exciting interactive features for customers to get involved with. The Finning team will also be on-hand delivering seminars and presentations, detailing equipment management solutions and technology that is set to transform the sector, delivering hundreds of thousands of pounds to the bottom line.



Commenting on the show and the Finning stand, Jason Howlett, Director of Equipment Solution at Finning, said: "Everyone is really excited about Hillhead this year, it is set to be a game changing show for the whole industry. Finning are bringing some amazing solutions, equipment and people to the show to tell the 'Built For It™' story, that has been developed hand in hand with Caterpillar to support the industry."



"No matter what the business, we know we can help to drive profitability for our customers and Hillhead 2014 is all about showing them how we can do it. It is not just about great fuel savings from the new product ranges, or the use of new Hybrid technology, it is how you put everything together from product support to consultancy and specialist advice. With the combination of Finning and Caterpillar expertise, visitors to the Finning Hillhead stand Z4 this year will certainly be able to profit from investing their valuable time with us."

For more information on the range of Caterpillar equipment available through Finning, visit [www.finning.co.uk](http://www.finning.co.uk).

## Machines on Show

**966M wheel loader**  
**982M wheel loader -**  
**725C 730C Articulated trucks**  
**374F LME - large excavator**  
**c3.4 stage IV engine**  
**C9.3 stage iV engine**  
**775G - Off Highway Truck**  
**AP-500E Paver**  
**CB44**  
**336F Hybrid excavator**  
**D6N Dozer**



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## "Investing in our people to serve you better"



**Trio is proud to announce, Global Product and Application team members, Jamie Gauger and Michael Dunne received their diploma in International Quarry Operations last month. This is an intensive one year program taught by industry professionals.**

The Institute of Quarrying is a worldwide organization for the quarrying and construction materials industries. With over 6,000 members in 50 countries teaching and implementing best practices for, Quarry development and management, Extraction and processing, Operational safety and sustainability, and Quarry blasting.

Jamie Gauger has 13 years experience in process flow design, plant layout optimization, proper machine application and international project management for the global quarrying and mining industries. With degrees in International Business and Spanish, Jamie is a team leader for many of our projects in South America.

Currently based in Northern Ireland with an honors degree in Engineering Management, Michael Dunne has traveled globally for 21 years serving the mining and aggregate industries. His assignments in North America and the Middle East provide a wide range of application experience which he uses to support our global customers.

Michael commented that "the Quarry Institute program has given me a better understanding of the costs involved in specific site operations and the effects of implementing particular schemes. Overall it has helped me to create crushing & screening circuit solutions with increased consideration for up and downstream operations."

At Trio we are investing in our people to strengthen the bridge connecting our customers' needs too Trio's core values, of pursuing product innovation, quality and providing global support. This enables us to provide our customers with the highest value processing solutions for their crushing, screening, washing and material handling requirements.



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# Baioni to exhibit at Hillhead 2014

**Baioni of Italy's main feature at Hillhead Show, Buxton, England in June 2014 will be the soil washing systems newly developed for the growing demand for the reclamation of contaminated land. The Baioni systems deal with processing soils grading out usable aggregates into marketable sizes and the decontamination of the silts and water. The integrated project is a specific approach for environmental remediation, a combination of cost saving innovative technologies to ensure the best site remediation solutions. The advantages prove to be the followings: reduction in contaminated soil volume requiring further treatment (cost saving), positive treatment for a wide range of contaminants, proven track record in sandy/gravelly soils.**

Recently commissioned for an Italian refinery, Baioni SW portable plant treats soil contaminated by total petroleum hydrocarbons (TPHs). After treatment, coarse materials (i.e. gravel and sand) are cleaned and can be reused, e.g. as aggregate for concrete production.

"This will be our 6th time at Hillhead, we are quiet excited about making our debut at Hillhead 2014 with something new to introduce to the UK market" said Graham Brian, Area Manager Baioni UK . Our engineers have been working on finalising design and specification of a soil washing system to offer custom made solutions to an international market demand, even more in search of valid technological solution. After Ecomondo we have been having lots of inquires and we are looking forward to meeting our customers and showing them how this new system will help their businesses."

Milena Bianchi, Marketing Manager of Baioni said: "Previous editions of Hillhead have been a very positive event for us; everyone at the show was optimistic about the future, the show was a great opportunity for our staff to meet some of our existing customers face to face and enabled us to further demonstrate that Baioni is a serious and reliable partner in the Quarrying & Mining, Waste & Recycling and Construction industries", she added.

At Hillhead in June 2014 the company will be showing its most recent, innovative designs also for the use of the extensive range of high performance centrifuge decanters which can convert minus 63 micron silt water into a reusable water supply and the solids into a handable material. Also on display the extensive range of fixed and portable washing and crushing plants for the recycling sand gravel quarries which have been the core business of the company for many years.

Meet us in the Registration Pavilion, Stand RA 14.



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## SN Engineering continues with Hillhead tradition . . .



Servicing global OEM & User markets in the **Concrete ; Asphalt & Mineral** industries for over 20 years. SN Engineering specialise in the design, manufacture & supply of dry bulk materials handling equipment covering such areas as Dust Filtration; **Bulk Storage Silos & Stores ; Mechanical & Pneumatic Conveying ; Dust Free Loading Systems; Mixing & Blending** and **much more**. Hillhead 2014 will see working examples of our Series 8000 Outloader® Plus – tanker loading bellows, alongside working examples from SNE's family of integrated Silo Protection Systems (SPS's) for visitor interaction. New for 2014 will be examples taken from SNE's extensive range of screw conveyors with working models of both Shafted & Shaftless screws. Working models from our extensive range of level detection devices will also be on show, including a unit from our semi-continuous level range.

Other exhibits will cover samples from our butterfly ; slide & rotary valve family alongside the UK debut showing of the Rotary Butterfly valve - a new concept in flow control / metering. Static samples from our low friction / high impact resistant lining material range ; the ever popular Maxair 24 silo venting dust filter, an OEM's favourite, alongside a sample of our heavy duty – fan assisted 32m<sup>2</sup> unit and both complimented with samples from the **EcoSpares** range of dust filter replacements.

### Machines on Show

**RAJ Filter, Loading Bellow, Screw Conveyors, and Silo Accessories**

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## Affordable, Dependable & Versatile Conveyors

**The Quarrying range of mobile conveyors is designed for medium-duty applications where stockpiling or transfer conveyors are required in either a mobile or static plant.** These

wheeled conveyors are available in a variety of lengths and belt widths and are ideal for stockpiling after a mobile screening or crushing plant or a sand plant. Standard features include heavy-duty bearings, radial axle, remote grease points, multiple discharge settings, galvanised trestle and pivot plate. They are available as hydraulic coupled, electric or diesel powered. The most popular model is the 1575 (50' x 30") which can be packed 6 per 40' shipping container for economic delivery anywhere in the world.



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Pit & Quarry Solutions

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M: +44 (0)78 098 64869  
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W: [www.qkconveyors.com](http://www.qkconveyors.com)

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**STAND Q5**

# SCS the Best of British for Over 20 Years



**Screening Consultancy and Supplies (SCS) is celebrating over 20 years in business and has become one of the market leaders in rubber and polyurethane synthetic screen media. The entire screen media range supplied by SCS being manufactured in Britain. Speed to market and exemplary customer service having always been the goals of the company.**

Due to SCS's complete design and manufacturing flexibility, we do not need to dictate restrictive designs but offer tailor made solutions to the customer's requirements.

We now run all of our operations from the SCS head office and rubber factory in Rugby and manufacture our polyurethane products in Cornwall. We manufacture our range of rubber screen cloths, polyurethane modular systems and much more within the UK which ensures complete control over design, manufacturing, quality and delivery.

When hard times set in a few years ago many operators looking for cost savings saw rubber screen cloths as a viable alternative to the cheaper woven wire option, due to the longer service life and reduced maintenance requirements of a rubber screen cloth, a lower cost per tonne can be achieved.

Along with the ever popular standard design of SCS polyurethane modular system, we can now supply direct replacements and entire systems for other styles of polyurethane modules such as the 85 system, Polystep, 600 system and various square module designs.

Additionally we undertake the design, preparation and installation of a wide range of lining work with, tailor made solutions to suit each customer and application using materials such as wear resistant rubber sheeting, steel backed rubber liners, polyethylene sheeting (low friction liner), polyurethane sheeting and steel backed polyurethane liners.

On display at Hillhead will be our scraper range including the SCS Polyurethane Primary Head Scraper which is one of the most popular scrapers sold in the UK.

## Products on Show

**Polyurethane Modular Systems**  
**Rubber Tensionable Screen Cloths**  
**Extraflex & Polyflex Screen Cloths**  
**Polyurethane Flip Flow Mats**  
**Rubber Chute Linings**  
**Polyurethane Chute Linings**  
**Polyethylene Chute Linings**  
**Washer Barrel Lining**  
**SCS Polyurethane Primary Head Scraper**  
**SCS Tungsten Carbide Secondary Scraper**



As an accredited company to BS 9001, SCS have a policy of continuous improvement to ensure the supply of the best products to their customers.

All of the products mentioned above will be on display at the SCS stand, so if you wish to know more about any of them please come and see us on stand Q9 and one of our team of experienced staff will be more than happy to answer any question you may have.



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 Fax: 01788 55 11 99  
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# Precia-Molen launch 'ROC' - Europe's Toughest Weighbridge

Weighing specialist Precia-Molen will introduce the "ROC", Europe's toughest weighbridge, to Hillhead 2014. The ROC weighbridge is a modular design comprising reinforced pre-fabricated concrete sections with galvanised steel inspection hatches. The benefits of the ROC weighbridge include high resistance to oxidisation and corrosion, being resistant to both chemical and atmospheric agents, and in addition the structure requires zero maintenance.

A range of dynamic weighing equipment will also be featured from simple belt weighers to fully Board of Trade approved lorry loading applications.

Compatible with Precia-Molen's flagship GeneSYS™ software, a range of driver consoles provides limitless application



configurations including communication protocols to business systems such as SAP and MS Dynamics.

Also on display will be a range of peripheral equipment including ANPR cameras, traffic barriers, card readers and RFID printers.



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# The Genuine Alternative



**CMS Cepcor are Europe's leading aftermarket manufacturer and supplier of premium replacement crusher spares and services to the quarrying, mining, demolition and recycling industries worldwide. Their premium manganese steel crusher liners are said to be independently proven in aggregate and mining production to achieve and exceed the performance of the equivalent OEM castings.**

CMS Cepcor replacement crusher parts have full traceability within their ISO9001 quality system. All parts are designed and manufactured in consideration of OEM specifications to produce high-performance and offer cost-effective savings. The company has recently further expanded its UK manufacturing and crusher repair facilities, offering large capacity CNC, milling, turning, boring, slotting, grinding, drilling, welding, co-ordinate inspection and material testing.

CMS Cepcor are an authorized FLSmidth service facility covering all Fuller-Traylor primary gyratory crushers in the local market. CMS Cepcor are also authorized UK and export distributors for Korrobond 65 crusher backing which, with their extensive stock holding, are able to promptly dispatch large orders worldwide.



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**Ian McDonald, Quarry Manager, Longcliffe Quarries**

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## Warwick Ward show their teeth at Hillhead

**Having exhibited at Hillhead every show since 1989, Warwick Ward continue to be recognised as Europe's largest supplier of used wheel loaders and all types of earthmoving equipment; and with over 5,000 machines broken for parts they have spare parts for all makes and model.**

Warwick Ward has continued to grow their business with the support of their customers and as a CASE Construction main dealer. In 2012 they added to the portfolio of products they offer by taking on the UK and Ireland dealership for worldwide renowned Finnish company TANA who manufacture some of the most technologically advanced waste / wood shredders and landfill compactors in the world.

Warwick Ward are able to supply the full range of CASE and TANA Machines and have a first class parts and service department offering both a professional and customer focused after sales service.

At Hillhead 2014 they will as usual be exhibiting examples of their re-furbished used equipment stock on their own stand as well as information on the TANA range of products. In addition they will also have representatives on the main CASE Construction stand and there will be a periodic live demonstration of the Tana Shark 440DT within the Hillhead demo area.



For more information go to [www.warwick-ward.com](http://www.warwick-ward.com) and visit Warwick Ward on stand number M19 at the Hillhead show!



# Warwick Ward

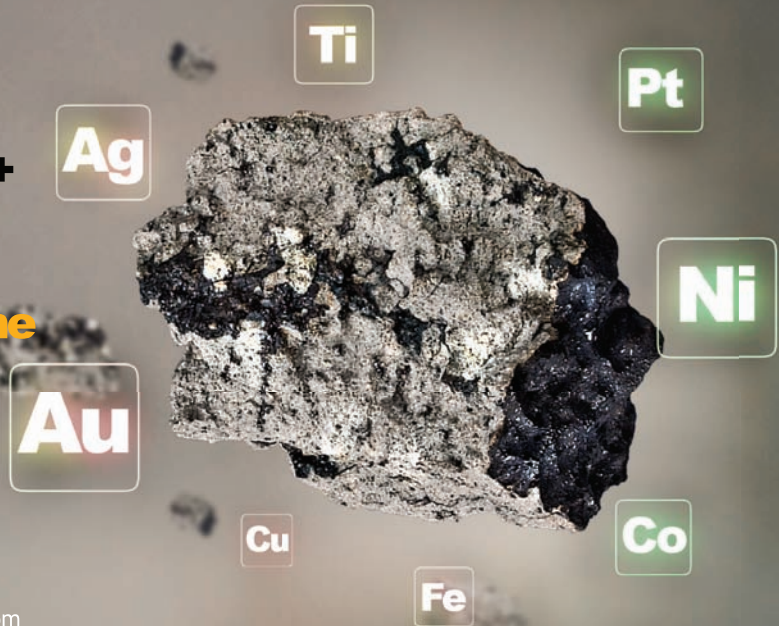
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## Worsley Plant showcase their growing range of Recycling attachments & a brand new addition at Hillhead



**Worsley Plant is one of the UK's leading providers of materials processing equipment to the recycling, demolition, construction, landscaping and waste management industries. Wheel loader and excavator-mounted screening and crushing buckets, demolition attachments, as well as density separation equipment are all available for sale or hire nationwide.**



At this year's show, Worsley Plant will be showcasing their comprehensive range of hydraulic attachments including **Crushing and Screening Buckets** from Remu and MB Dig A Crusher, as well as **Demolition Attachments** from Rotar, all ideal for use in recycling materials.

We will also be introducing our **NEW** range of **Fully Automatic Quickcoupler Systems** from Lehnhoff - the Variolock range. This European market leading range makes changing any attachment effortless, safe and fast. The operator can change any tool including the hydraulic connection at the touch of a button from the comfort of his cab.

Juliet Perrett, Worsley Plant Sales and Marketing Manager, comments: "All our product ranges can be configured to meet the criteria of just about every materials handling, waste processing and recycling application you may encounter. Our unique products have a triple focus of recycling materials on site to reduce waste sent to landfill, increasing revenue from high value material collection, as well as providing benefits for the environment."

In the Quarry Face Area at the show, we will be running live demonstrations to show our products at work. You can find out more by visiting [www.worsleyplant.co.uk](http://www.worsleyplant.co.uk), calling us on 01606 83 55 44 or emailing us at [info@worsleyplant.co.uk](mailto:info@worsleyplant.co.uk).

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**WORSLEY PLANT**

## Machines on Show

### Crushing Buckets from MB:

MB BF60

MB BF90

MB BF120

MB L160

### Screening Buckets from MB:

MB C50

### Remu Screening Buckets:

EP3150

EP4160/4220

### Rotar Demolition Attachments:

**A range of grabs, shears and pulverisers**  
**Lehnhoff Variolock Quickcoupler System (NEW)**



**STAND W1**

## Edge Innovate to launch new products at Hillhead 2014



With our ethos of "Innovation at Work" EDGE persist in pushing the boundaries of design and manufacturing to produce hard working, quality machinery that bring real benefits to customers right across the world. Our state of the art manufacturing plant based in Ireland uses the latest technology and concepts to create a reliable, durable and cost saving product portfolio of Mobile and Tracked Conveyors, Tracked and Mobile Feeders, Trommels, Shredders, Picking Stations Truck Unloaders and Roll-Sizers.



With the ability to handle a multitude of materials such as aggregates, fertilizers, coal, ores, wood and tyres, our machines are operating across 6 continents in the harshest environments. From the blistering summer heats of the Australian outback to the chilling winter winds of Northern Canada, we design our machines to work as hard as you do.

Our highly experienced After Sales Support Department is on call 24/7 to ensure optimum performance of all our machines. At Edge we like to see the sales transaction as the start of a long-term partnership.

Edge Innovate will launch two new products to the market at Hillhead 2014, the all new RTU220, the RS1500 as well showcasing the new up-graded TRM622 mobile trommel. To find out more about our latest offerings and existing product range come visit us at Stand C20. **"Equipment built to work as hard as you do"**

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**Innovation at Work**

# Sandvik at Hillhead 2014 Stand J1

**Sandvik Construction will be taking advantage of Hillhead 2014 to highlight the total solutions product ranges, with many old favourites being shown. Additionally there are a number of UK and world product launches planned, as well as live demonstrations of mobile crushing and screening equipment.**

The Sandvik product offering provides solutions for virtually any application, and encompasses such diverse businesses areas as surface rock quarrying, excavation, tunnelling, demolition, recycling and civil engineering. The range of products developed to service these industries includes rock tools, drilling rigs, breakers, tunnelling equipment, crushing and screening machinery, bulk-materials handling systems - in fact machinery to deal with virtually every possible requirement.

Sandvik will be aiming to use the opportunity presented by an exhibition of such importance to the to the global quarrying and construction industry to emphasize areas of expertise and service that transcend the traditional supplier-customer dynamic. This is due to the fact that Hillhead is quite rightly seen as the perfect place to introduce new solutions based equipment. Hence Sandvik Construction will also introduce the very latest developments from the world leading product ranges.

## **New and innovative equipment that will be shown include:**

### • **Stationary crushing equipment - NEW CH540**

The new generation of compact cone crusher from Sandvik provides customers with optimum performance and good cubical shape, whilst ensuring the lowest operating cost per ton for a wide range of materials and applications. The all new patented Sandvik CH540 is based on the proven HYDROCONE™ design, with the CH540 combining the ability to produce excellent shaped products, in fewer crushing stages, thereby making it adaptable to ever-changing customer requirements.

### • **Mobile crushers and screens - NEW QA451**

The new QA451 is the latest incarnation of the original S7: the world's first and only triple-decked Doublescreen that was originally launched 6 years ago. Whilst retaining many features of the S7 and subsequent QA450, the Premium QA451 improves on the productivity of its iconic predecessors, as well as seamlessly incorporating many further refinements which greatly enhance the users' experience. With innovative new features - such as the hydraulic raise / lower, and slew on the fourth product conveyor - the QA451 is designed to work in tandem with primary, secondary or tertiary crushers, in order to produce the cleanest aggregates with ease.



### • **Breakers - NEW Rammer 5011**

Backed by Rammer's exclusive Lifetime Warranty, the new Rammer 5011 is designed using the same operating principle as first seen on the smaller 3288 and 4099 models. This revolutionary operating principle that has raised the standards in power to weight ratios, allows these hammers to be purpose-matched to specific applications for increased productivity and usability. Suitable for carriers in the 43 to 80 ton (94800 - 176400 lb.) operating weight category, the 5011 model weighs in at 4750 kg (10470 lb.) and slots neatly into the Rammer Large Range line-up between the popular 4099 and the proven 7013 models to provide customers with a complete range of hammers.

### • **Drill rigs - DI550 drill rig**

The Sandvik DI550 is a down-the-hole drilling rig featuring a 324 kW diesel engine and a 24.4 m<sup>3</sup> compressor air flow at 24 bar pressure - making the machine a perfect match for the 5" DTH hammer. This careful match of power and hammer size makes the rig uniquely productive, whilst keeping fuel consumption and operating costs as low as possible. Cost effective machine performance is further enhanced by other advanced features such as active diesel RPM control, optimized diesel RPM level during drilling and active control of compressor running temperature.

- **Tools & Consumables - NEW Optiagg**

Through the launch of Optiagg Sandvik Construction now offers a new dimension in operational support for its CH430, CH440 and CH660 cone crusher models. As well as complete redesign of the mantle to deliver greater efficiency, the real benefits are to be found from the computer modelling and analysis, as they provide a scientific approach that secures more of the most valuable fractions without costly trial and error. Effectively Optiagg takes the guesswork out of optimizing crusher performance as there is a step-by-step process that includes analysis of the current conditions, modelling to identify the optimal configuration and setup, as well as the validation of the outcome. This results in the chamber setup being able to be fine-tuned according to the desired output, and the specific demands of the application.



What really helps make Hillhead exciting and different is the live equipment demonstrations. This year's show will see Sandvik demonstrating examples from the mobile crushing and screening range, and will also see the launch of two new products which will be shown working for the very first time.



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**On the demonstration area:**

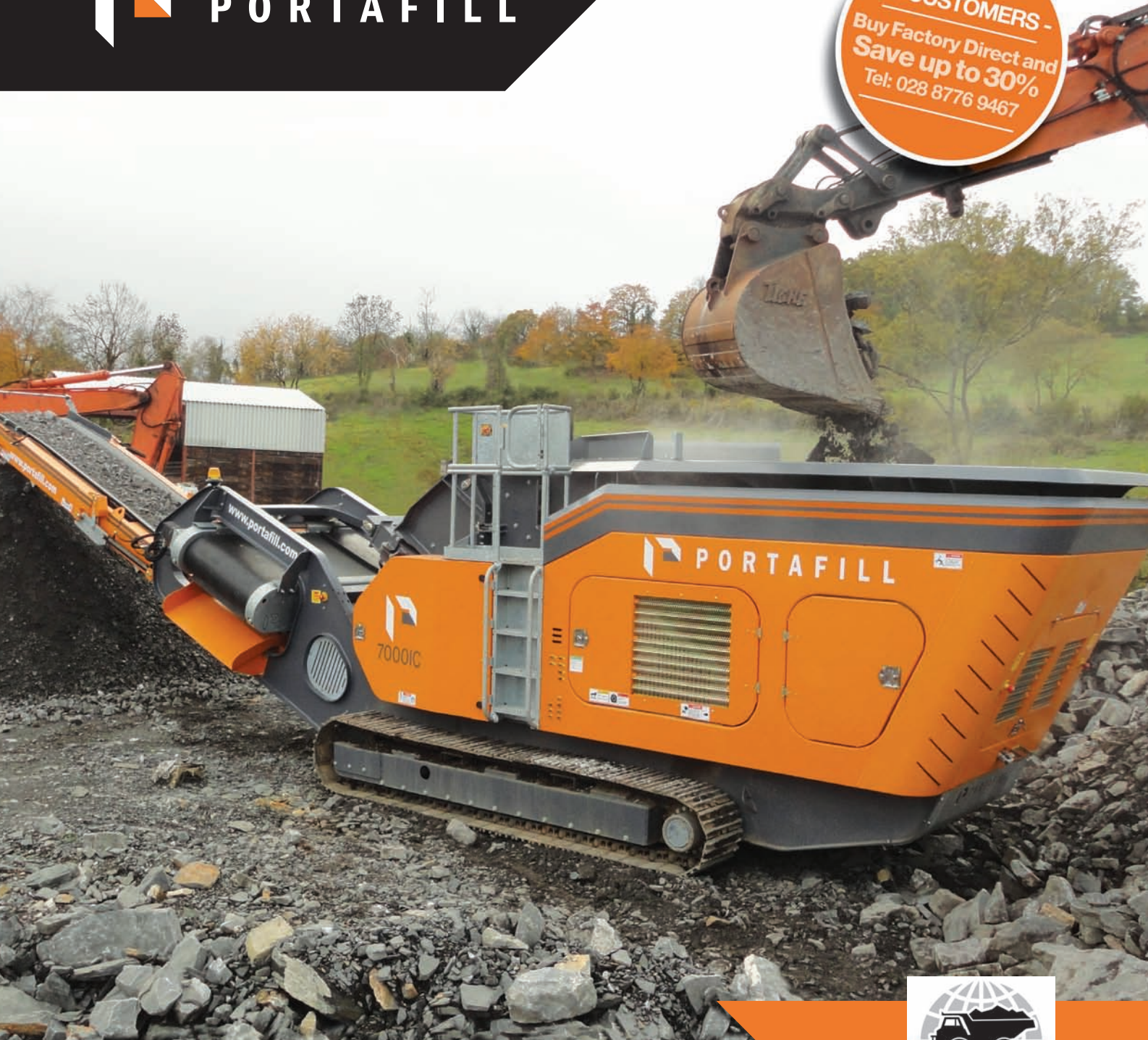
QJ341 feeding QH441 Cone with NEW hanging screen - World Product Launch  
QJ341 feeding QS331 Cone with NEW hanging screen - World Product Launch  
QA331 screener

With the live demonstrations of Sandvik equipment being held hourly directly in front of the main pavilion on the stand, UK and World Products taking place, Hillhead will certainly be a showcase event for Sandvik Construction in 2014.





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## BUILDING QUALITY & DELIVERING POWER

The Portafill 7000IC (pictured above) is an innovative, modern, compact impact crusher, ideally suited to crush concrete, rubble, asphalt and stone. Low fuel consumption and ease of transport make the 7000IC a must have piece of equipment for contractors or recycling operators that need to operate equipment in confined spaces. The 7000IC can be fitted with a recirculating system that returns oversize material to the crusher.



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A valuable and cost effective part of our service at ARL is the relining of used plant and equipment. Rubber lined pipes, cyclone parts, chutes and tanks etc can all be relined, and metal repairs can be included at the same time to provide fully refurbished equipment at a fraction of the cost of new.

For further information call Robert Travell on 01452 381849, or Keith Travell on 01628 762716, or email [keith@applied-rubber.co.uk](mailto:keith@applied-rubber.co.uk)



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## E-Series ADTs highlight Bell 'evolution' at Hillhead

**'Evolution' will be the theme on the Bell Equipment stand at Hillhead 2014, as the manufacturer showcases its next generation E-series ADT as well as providing details of its forthcoming Tier 4 engines for wheeled loaders.**

The E-series was officially launched in the UK in late 2013 and has instantly proved its credentials. The next generation in Articulated Dump Truck design and technology, the E-series presents an evolution that builds upon the proven legacy of the successful D-series, in order to deliver increased production payloads, lower daily operating costs, superior ride quality and uncompromised safety standards.

Key amongst its advantages are unrivalled fuel efficiency, with the lowest cost per tonne on the market - a quality that has already seen the E-series selected for use by major names in quarrying, earthmoving and plant hire.

The range was previewed at the last Hillhead in 2012 and Bell is delighted to return to the show with E-series models. "The E-series is even more remarkable in real-life than we promised two years ago, and I can't wait for visitors to Hillhead to see it," explains Nick Learoyd, Managing Director of Bell Equipment.

For larger jobs, Bell Equipment will also be showcasing the proven quality of its D-Series machines such as the B50D, a giant amongst ADTs that remains unsurpassed in terms of payload.

In the wheeled loader market, 2014 is a year of change with the switch to full Tier 4 engines in line with the clean air regulations established by the EPA and European Union. Ahead of the launch, Bell will be demonstrating how this necessary evolution in emissions technology is being integrated to complement the existing advantages of Bell loaders.

With several loaders on the stand, Bell is showcasing a number of features designed to minimise downtime and improve performance, notably QuadCool, the company's industry-leading cooling system that is unique to Bell loaders in the UK, as well as the highest "as standard" specification of any wheeled loader in the market. Machines are factory-fitted with items that other manufacturers typically include

only as optional extras. Examples include the reversing camera and reverse radar detection system, embedded payload system and keyless start with lock-out codes for added security.

"With Tier 4 being introduced specifically to tackle emissions, it is more important than ever that customers seek a machine that can meet the range of complex and demanding tasks expected of modern loaders," explains Nick Learoyd. "Regardless of their class of engine, Bell loaders can meet and exceed those expectations."

Also on display at Hillhead will be the latest generation in the company's Fleetm@tic fleet monitoring technology, which now offers real-time tracking as an industry first and set a new benchmark in user friendliness.

This evolution in Fleetm@tic came after Bell engaged customers in Germany, France, the United Kingdom and South Africa to get an understanding of customers' immediate needs and focus points. The result is that the structure and design of the system is focused on presenting information to the customer in a more sensible and practical way, with emphasis on production data.

Amongst the innovative features introduced to Fleetm@tic is the 'Alert Ticker', similar to tickers used by TV news programs, which has been introduced along the bottom of the webpage to display high priority alerts.

Another evolution in recent years has been the growth of Bell Equipment globally. As well as the recent creation of Bell Equipment North America, the company's UK division is directly responsible for a number of foreign dealers and distributors, encompassing Ireland, Iceland, Norway, Israel and the Middle East.

"Just as Hillhead is internationally renowned as a showcase for the best in construction equipment, so Bell is increasingly a player in diverse markets around the world. We will be delighted to welcome overseas visitors to our stand to help them find their nearest Bell representative," confirms Nick Learoyd.

**Bell will be on Stand V1 at Hillhead 2014.**



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# RDS launches LOADEX 100 at Hillhead 2014

**Making its UK market debut at Hillhead 2014, LOADEX 100 is a retrofittable scale installed on both tracked and wheeled 360 degree excavators and material handling machines to weigh the amount of material in the bucket, grab or clamshell.**

Two pressure sensors are installed into the hydraulic lift system with up to two more installed on machines fitted with assistor accumulator cylinders.

The pressure signals are captured, filtered and corrected by measuring the angle of the main boom using an inclinometer. Slope corrections are made from another inclination sensor on the chassis.

Dipper arm position is made from a mechanical angle sensor mounted on the boom to dipper arm elbow pivot. This provides fast and precise dipper arm angle measurement that is not affected by inertia g-forces or acceleration effects.

As an added option, oil temperature compensation is provided by a clamp on temperature sensor.

Ultrasonic technology is used to provide reliable and precise bucket position compensation.

All calculations are made in the LOADEX 100 Weighing Module, with the resultant calculation sent via CAN protocol to the LOADEX 100 terminal in the cabin. Load and store information is saved in the terminal where it can be distributed to an in-cab printer, modem or internal SD flash card.

Also making its HILLHEAD debut is the new LOADMASTER **a100** on-board weighing scale for wheeled loaders. An all-new CAN based system combining cutting edge sensor technology and signal processing techniques, the LOADMASTER **a100** provides precise and consistent bucket weight information and emphasises the gains in productivity and profitability that can be achieved with such technology.



Designed to operate within the fastest loading environments and toughest of conditions, LOADMASTER **a100** reduces cycle times and maximises tons per hour performance.

Loading correctly first time eradicates return trips to the stockpile reducing vehicle movement, fuel usage and machine & tyre wear.

The new LOADMASTER **a100** uses a 7" colour, resistive touch screen display and additional physical keys providing a modern and ergonomic operator interface.

Suitable for use with up to 10 different attachments e.g. buckets or forks, the system can be retrofitted onto wheeled, telescopic and tractor type loaders.

The system continually measures hydraulic pressure using up to 4 sensors. The pressure signals are captured and filtered through a weighing 'arc' provided by inclination sensors measuring the angle of the main boom.

All signals are processed in the RDS Smart Box and the resultant weight calculation is sent to the terminal mounted in the cabin.

SQL database capability with up to 8 reference fields providing virtually unlimited inputs of products, customers, trucks, hauliers, locations, destinations, mix blends and notes. There is a blend facility with an infinite number of mixes and products.

GPRS or Wi-Fi connectivity provides one or two-way communication with the back office to send and receive job information.

Video input for switching head unit into reversing camera mode removes the need for additional screen, releasing valuable cab space.

For smaller loaders and skid-steers, RDS offers the WEIGHLOG **a10** which also benefits from a colour touch screen display. This instrument is a user friendly on-board weighing system which provides accurate and consistent bucket and total load results, meaning stock management and check-weighing operations can be controlled more effectively.

For more information on how on-board weighing and data handling be used to help improve your operations, visit us at stand N12.



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# McLanahan Corporation deliver custom engineered processing solutions for almost 180 years

McLanahan Corporation has been delivering custom engineered processing solutions for the world's most demanding industries for almost 180 years. McLanahan has a strong foundation of innovation and reliability that make them one of the most trusted manufacturers in the industries they serve. This family-owned company started as a foundry in 1835 and has since grown to carry a comprehensive line of mineral processing equipment to handle a wide variety of applications.

## CUSTOM ENGINEERED PROCESSING SOLUTIONS

When working with McLanahan customers receive custom engineered processing solutions that are designed specifically to handle their needs. With McLanahan there is no one-size-fits-all solution.

To best serve its customers processing needs, McLanahan has a department of process engineers that consult with customers, as well as design equipment that can be used from start to finish in a plant. The process engineering department at McLanahan offers extensive testing both in McLanahan's laboratory and on-site to make sure that equipment needs are completely understood. Teams of engineers then work to confirm that the equipment meets the specific requirements provided by the customer.



McLanahan Filter Presses eliminate the need for settling ponds while providing reusable wash water and freeing up valuable resources.

## FOCUS ON CONTINUOUS IMPROVEMENT AND INNOVATION

It's no secret that McLanahan has a long history as an innovator of processing equipment. Although the company started as a foundry-

McLanahan provides a wide variety of wet processing equipment, such as this Hydrocyclone and Dewatering Screen, that produce a dryer product.



In 2014, McLanahan Corporation launched their Freedom Series Jaw Crusher, which increases capacity by 15 percent when compared to competitor's similarly sized jaw crushers.

only operation, it didn't take long for it to change to a supplier of processing equipment. In the late 1800s, the company originated both the Log Washer and Single Roll Crusher, starting its journey to offering a complete line of processing equipment.

Since that time, equipment has been added through both design innovation and strategic acquisitions that have allowed the company to offer more to its customers. These acquisitions have been companies that are leaders in their equipment lines including HSS Sampling Equipment, engineers of bulk material sampling systems; the U.S. Linatex equipment business, adding extensive wet processing equipment options; and Universal Engineering Corp., a recognized name for primary and secondary crushers, as well as feeders.

McLanahan continues to find ways to improve its offerings, not only through acquisitions, but also through its own product innovation. A defined research and development process helps engineers to generate solutions that are going to provide the most benefits to McLanahan's customers, and a department dedicated to continuous improvement and product innovation ensures that ideas and designs are the most up-to-date.

## DO MORE WITH MCLANAHAN

Through acquisitions, innovations, new industry ventures and global offices, McLanahan is able to do more for its customers, and in turn their customers do more as well, resulting in an increase of products and profits. Not only are they able to offer one of the most complete equipment ranges in the world, but they are also able to back up their equipment with unmatched service and support. From start to finish, McLanahan is passionate about helping its customers make the most out of their plant.

In addition to the U.S. based offices in Pennsylvania, Florida, Tennessee and Iowa, the company has also expanded to include offices across the globe. McLanahan opened its first international location in Newcastle, Australia in 2003, and has since gone on to open another office in Australia, as well as one in Southeast England. Additionally, McLanahan entered into a joint venture agreement in 2013, forming McLanahan-Nawa Engineers, to better serve the emerging market in India and surrounding countries.

## CONNECT WITH MCLANAHAN

To learn more about McLanahan visit <http://www.mclanahan.com> or e-mail [sales@mclanahan.com](mailto:sales@mclanahan.com). You can also hear directly from McLanahan customers and view equipment in action on the McLanahan Corporation channel on YouTube.



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# PRIME

## Professional Recognition In Mineral Extraction

**With an annual turnover of £9 billion and 70,000 people employed in the UK alone, the mineral products industry plays a key role in supporting the UK economy and people's everyday lives.**

Providing a stimulating and diverse environment to work within, the industry offers a plethora of job opportunities, on-going training and the prospect to work within a variety of disciplines in a globally growing sector. Within the UK alone, there are an estimated 1000 aggregate quarries, 11 cement works, 1010 ready mixed concrete plants and 310 asphalt plants.

Despite this, a demographic time bomb was foreseen within the industry. Faced with an aging workforce, the average current age of employees being over 55 & with difficulty recruiting in the sector. The creation and focus of the PRIME project sets to address these problems, by opening up the doors to the industry, assisting in providing a continuous career progression pathway, truly embracing workforce involvement and promoting the development of individuals.

The project will additionally provide a platform to promote the importance of CPD at all levels within the industry. Assisting with existing workforce engagement and making career prospects within the sector known. Used as a vehicle to promote the upskilling and forward development of individuals through "TPD" Total Professional Development working towards a fully competent workforce and achieving 'Target Zero' in the industry.

Comprised of around 6,000 members in some 50 countries of the world, the Institute of Quarrying is the international professional body for quarrying, construction materials and the related extractive and processing industries. Membership is open to individuals sharing our commitment to improving standards and lifelong learning. The long-term objective of the Institute is to promote progressive improvements in all aspects of operational performance through the medium of education and training.

Marking an important milestone for the Institute and reflective of the changing world around us, a new grade of membership came into effect 1 January 2014. Technical Membership or 'TMIQ' fits between the current Associate and Member grades, enabling a number of individuals currently falling into the existing Associate category to enhance their membership level and entitling them to use the designation 'TMIQ'.

Creation of the new TMIQ member grade ties in with the PRIME project. The project goes someway to formally recognising contributions made as professionals by senior operatives, foreman and supervisors in addition to encouraging a more active workforce engagement.

The implementation of the new grade was additionally a step to ensuring the needs of members continue to be met as it nears its 100 years of existence. The new grade will also further promote recognition outside of the industry, broadening the appeal for new members, encouraging new blood coming into the sector and ensuring its future sustainability. TMIQ's introduction takes a step towards providing greater recognition to the unsung heroes of the Industry, recognising the commitment made by individuals.

Providing recognition to people within their role is seen as key in pushing the professionalism of the sector forward. In turn this brings additional benefits such as attracting new generations into the industry, retaining and further developing those within it, along with ensuring it is viewed as being both highly competent and world class in its aspirations and achievements with a motivated, committed workforce.

For more information on the PRIME project please visit the Institute of Quarrying or MPQC at Hillhead 2014 in stand H3 or the registration area. You can also contact us at anytime on [mail@quarrying.org](mailto:mail@quarrying.org) / +44 (0)115 972 9995.



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# Master Magnets Incorporating Metal Detection Ltd.



STAND C9



Master Magnets Ltd will again be exhibiting at the Hillhead show this year, making it the company's 8th consecutive appearance at the world's largest exhibition of working quarrying and recycling equipment. The Mastermag stand (C9) will be located in its usual position, on the ramp leading down to quarry, where the company plans to have a range of Magnetic Separators and Metal Detectors on the stand.

The Magnets that will be shown on stand C9 will include the self-cleaning Overband Separator as well as a Suspension Magnet. Overbands are commonly used for the continuous removal of ferrous contaminants from various product streams, whereas Suspension Magnets are used to remove much smaller amounts of ferrous contamination.

Alongside the Magnets, visitors will also be able to view some of the Metal Detectors that are most often supplied to the Quarrying Industry, such as the TN77 unit. The TN77 is of a very simplistic design and is the most cost effective solution for the detection of ferrous and manganese contaminants. There will also be a QTA detector on the stand, which is used in applications whereby the complete protection of all types of tramp metal may be required.

We very much look forward to meeting all of our new and existing customers at what promises to be another fantastic Hillhead show.



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STAND C29

# Smico Symons Arrives In The UK



Smico Symons broad product line includes a wide range of standard and customizable vibrating screeners, conveyors, separators, feeders, shakers, sifters and other process equipment. These range from specialty low-volume, fine screens to major tonnage aggregate and mining screens.

Smico Symons screening solutions serve mining and aggregate production, construction, bulk powder recycling and C&D processing, and glass and plastics production. Unlike many other manufacturers, Smico Symons continues its history of modifying existing screening models and engineering custom screening solutions for its customers. With this level of customer focus, Smico Symons continues to stand for exceptional quality and extraordinary product support

We design build and install horizontal screens for high tonnage applications, finishing screens for high-accuracy applications, K-Rod and K-Twin Rod deck screens for wet, sticky materials, K-Bar and K-Rod Grizzly scalpers and the Symons V-Screen series that are perfect for sizing and dewatering fine materials.

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# LIEBHERR

**The Group**

# Pacepacker boxes off bagging at Earsham Gravels



**In a custom installation thought to be the first of its kind, Pacepacker Services has built a containerised sack packing and robotic palletising line for Suffolk-based aggregates supplier Earsham Gravels. The investment has not only doubled capacity and reduced reliance on manual labour, but also given Earsham Gravels a portable turnkey line that can be easily transported between quarries.**

A family business, Earsham Gravels bags aggregates, from sand to gravel, shingle, limestone and granite, into plastic sacks for trade customers supplying the DIY and construction industries weighing up to 40kgs. Historically, aggregates were bagged on a manually operated line, but as the company's customer base expanded, this became unworkable. "Health and safety lifting regulations made the manual operation extremely onerous and put pressure on employment," explains Jim Bennett, MD of Earsham Gravels. ►





Earsham Gravels tasked automatic packing systems specialist Pacepacker with designing an automated line that would fit within a purpose built trailer container enabling the equipment to be transferred with ease to different locations. The kit needed to be compact enough to fit within the confined space, measuring 40 x 8 x 8ft, and robust enough to withstand the harsh quarry environment where it is situated as the aggregates are often abrasive and wet which can damage and corrode machinery.

Pacepacker built a portable turnkey cell incorporating its innovative Total Bag Control (TBC) sack closing system, its C21 sack placer a bag kicker, a bulk hopper and a weigher. Within the container, the sack placer opens the empty sacks and presents them to the aggregate specification weigher, for filling from the bulk hopper. The TBC system then takes hold of full sacks with a pair of motorised grip arms and motors toward the sealer, "As the bag top is held at all times prior to sealing, the system stabilises the bag throughout the closing process," explains Paul Wilkinson, Pacepacker's business development manager. "To ensure the TBC can cope with harsh conditions, all parts that come into contact with the aggregates are made from stainless steel, and the feeder uses heavy duty rubber belting."

Following the success of the first portable turnkey cell Earsham Gravels constructed a second purpose built trailer which Pacepacker equipped with a FANUC R2000 palletising robot. Once sealed within the first container the sacks pass through a sack kicker and into the second container, where they travel to the FANUC R2000 palletising robot via a flattener conveyor with powered rollers, followed by a 'pick' conveyor, whose roller design and spacing facilitates picking of the sacks.

The six-axis robot loads sacks onto two pallet stations, which are rotated and wrapped before being taken away by fork lift trucks. "We specified the FANUC R2000 robot because it has a very tight working envelope - it is compact but has the reach to work the whole container," explains Paul Wilkinson.

Earsham Gravel reports that automating the line has ramped up bagging speeds from five or six sacks per minute to nine or ten sacks per minute. "This means we've now got the capacity to bag up to about 140 tonnes per ten-hour day, compared with 70 or 80 tonnes previously," explains Jim Bennett. "We also have the flexibility to further expand capacity by feeding another line into the robot."

"Another advantage of automating the line is that we only need one operator, to take the full pallets away and put empty pallets in their place, and there is no longer any heavy lifting," he adds. Earsham Gravels has put the portability of the line to the test and Jim Bennett confirms: "The kit can be packed up on a lorry within 30 minutes, then, once transported, can be up and running in a new location within another 30 minutes."



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## Conbar install a new floating dewatering pontoon for Imerys

**Conbar UK Ltd, Dredger and Floating Pipeline designers have just recently installed a new floating dewatering pontoon for Imerys, the English China Clay producers. The pontoon, 5m x 6m is a modular design assembled using Conbar UK Ltd specially designed MDPE floatation units filled with polyurethane close cell foam. All the upper steelwork is manufactured from galvanised mild steel. Also supplied and manufactured was the walkway, which was hinged to account for the variation in water level of the operational pit.**



Supply from the land to the (315kW 355 frame size) electric motor installed, is powering a 'Metso HH 200' pump. The total weight of the Motor and pump is 4.5 Tonne. A simple 'A' frame gantry is also incorporated for servicing the pump in situ on the pontoon. Conbar UK Ltd can supply various sizes as per customer's requirements.

Earlier last year Conbar, in partnership with Iminop of India designed and built a 12 inch cutter suction dredger for an iron ore tailing pit. The dredger has been operating successfully for the past year for one of India's largest steel producers to feed the new process plant designed by Iminop to extract iron from the ore originally thrown away as tailings.



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# Longcliffe Quarries returns to its roots

Leading quarry invests in new **TEREX®** truck



**TDL Equipment, an independent distributor for Terex Construction, recently supplied the first Terex® rigid haul truck to enter service with Longcliffe Quarries in more than 25 years.**

Previously, the company which extracts high quality limestone from its two quarries in the Derbyshire Peak District, had used Terex R35 trucks but then went on to use 50 and 60-tonne capacity trucks from a competitor brand before the purchase of the new Terex TR70 truck.

Excellent performance and fuel returns from a demonstration unit and the great enthusiasm and determination shown by TDL Areas Sales Manager Gaz Bourne led Longcliffe to place an order for the 65-tonne capacity truck.

Powered by a fuel efficient 760hp (567 kW) engine, the Terex TR70 rigid truck met all requirements set out by the quarry management. Quarry Manager, Ian McDonald, explains that the operation has a specific requirement for its haul trucks. "We need the truck to be able to run under our front line shovels but also require it to be able to be loaded by our smaller wheeled loaders when moving waste material. Terex was the only manufacturer able to give us a low enough body yet retain the payload requirement."

Another determining factor was the physical width of the truck. The quarry is bisected by the B5056 roadway with the quarry faces accessed via a narrow tunnel passing under the road. "We needed a truck that could fit through the tunnel and yet again Terex was the only manufacturer that could meet our requirements," explains Mr McDonald.

As with the rest of the Longcliffe fleet, the TR70 truck sports Longcliffe's corporate colour scheme. Being painted on the production line at the Terex facility in Newhouse, Scotland, meant the Terex truck was able to be put to work straight away. "The finish on the paintwork is excellent!" commented Mr McDonald. "Previous vehicles from other suppliers have had to be stripped down and repainted in our workshops causing delays to getting the vehicle into action. This wasn't an issue with Terex."

Along with the special paint scheme, Longcliffe also specified various aftermarket features including a hydraulically folding access step and the TDL360 degree surround camera system, which were provided and installed by distributor TDL. The revolutionary system provides a bird's eye view of the truck and its working environment on the in-cab colour screen and reduces potential blind-spots around the vehicle. The system utilises four standard cameras mounted to the front, off and near sides and rear of the TR70 truck.





Longcliffe also requested that TDL included its extended oil change facility. According to Gaz Bourne: "Engine oil and filter life is extended by at least four times resulting in reduced oil usage and disposal cost." Another potential cost saving option fitted to the TR70 truck was the TDL Tyre Monitoring system. "Tyres and their maintenance cover a large proportion of the trucks running costs and TDL believes the Tyre Monitor can reduce these costs by monitoring pressures every 15 minutes and alerting the operator should any tyre drop or exceed a certain pressure," said Mr Bourne. Alerts are brought up on the in-cab monitor and scans can also be sent via TDL Telematics to the maintenance teams via email or text message.

Ian McDonald concludes: "We are extremely pleased with both the package and service we have had from Terex and TDL. Our operators are very pleased with the new truck and the fuel returns are looking promising. It meets 100% of our requirements; what more could we ask for?"

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# Aggregates business buys fuel saving JCB loaders

**Leading North East construction firm, The Owen Pugh Group, has bought two JCB 457 wheeled loading shovels for loading aggregates at its quarry in Whitburn, near Sunderland.**

The company also purchased seven JCB tracked excavators - one JS130, two JS160, three JS220 and a JS260 model - in the same deal. These will be used for earthmoving, demolition and general works by the Owen Pugh Contracts team.

The two new JCB 457 wheeled loading shovels are operating at Marsden Quarry - on behalf of the Owen Pugh Aggregates division - loading quarried materials on to vehicles leaving the site.

The quarry provides a range of primary and recycled construction aggregates, including type 1 sub-base, pipe beddings and clean stone that supply markets throughout the North East of England.

Its high quality agricultural limestone includes both calcium lime and magnesium lime, and is quarried for its agricultural and soil improvement benefits. Over 100,000 tonnes per year of this are distributed across the UK or exported into the northern European agricultural industry.

Andy Mountford, General Manager at Owen Pugh Aggregates, said: "The two new loading shovels at Marsden Quarry have directly replaced longstanding JCB equipment which has performed admirably for us over the years. We're already

seeing a positive impact on productivity as a result of the new machines, and as they boast fuel-efficient Tier 4i engines, we expect that over time we'll see a positive impact on fuel costs too."

Paul Cockburn, General Manager of Owen Pugh & Co Ltd, who oversaw the purchase of the new plant machinery, added: "It's important for us to work with recognised leading industry brands which our customers know and trust. The excellent customer service and the parts and service back-up from Scot JCB also played a key part in our decision."

The JCB 457 wheeled loading shovels are powered by an 8.9 litre engine delivering 250hp (186kW) of power, an increase of 16% on the previous model. With a variable geometry turbocharger, high-pressure common rail fuel injection and a diesel oxidation catalyst with diesel particulate filter (DPF), this powerful engine also provides an 18% increase in torque, at 1,085Nm, yet meets the requirements of the EU Stage IIIB (EPA Tier 4 Interim) emissions regulations.

The Owen Pugh Group is a full service civil engineering contractor, which employs over 370 staff across five regional sites including its head office in Dudley, Northumberland. It undertakes a wide variety of work including: plant hire, land reclamation, earthmoving, demolition, port, harbour and sea defences, urban renewal, environmental improvements, main drainage and development infrastructure.



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The Hein Lehmann Delta II intensive action screen

## Tema Machinery supply new Delta II screen to Moons Hill Quarry



The Crushing & Screening house

**As part of a major plant upgrade Tema Machinery have recently supplied a Hein Lehmann Delta II intensive action screen to Moons Hill Quarry near Radstock, Somerset. Hein Lehmann are one of the sister companies of Tema (Machinery) Ltd.**

**Owned and operated by John Wainwright and Co Ltd the company have been supplying premium aggregates to the construction industry since 1891. Now as then, Wainwright's are proud to be an independent business, renowned for its innovation, environmental and ecological awareness and strong local roots and community responsibilities. This independence and those shared values set them apart in their sector.**

**Wainwright's have maintained their market share through the expansion of the company's core capabilities, major inward investment and the professionalism of its extremely experienced staff at all levels and ultimately the quality of its major asset, the basalt upon which the company was founded. This basalt extrusion is the only example of hard stone in the Mendips and was formed in the Silurian period, approximately 425 million years ago.**

## New investment

Last year saw Wainwright's most significant investment in recent years, spending £3.5 million on new quarry processing plant. This has taken the form of a secondary-stage aggregate production plant, replacing equipment, some of which had been in use since 1963. This involved bringing up to current standards the secondary and tertiary processing sections linking them all up with appropriate conveyors to the existing primary and final screening section.

Foundation works began in the Autumn of 2012, with the project completed and commissioned in October 2013. The twenty metre high new plant, constructed by Devon based Centristic is up to 60% more productive than the old facility.

## Delta II Screen

As part of this investment Tema Machinery supplied a new high efficiency Delta II screen which was supplied with WS85 polyurethane screening media.

Prior to winning the order, Tema Machinery held numerous site visits to discuss the machine and its capabilities and how it would cope with the 'difficult' material to be processed.

The material is a capricious 'basalt' material with a variable amount of volcanic and clay fines within the product which can be as high as 30%. When the material is in a damp and poor condition it needs to be screened at a 40mm setting, however when the material is clean and fine there is a desire to be able to screen at 20mm so that there is an optimisation of reclaiming the high value stone for aggregate use and consequently reducing the waste scalplings element from the stone.

Peter Restorick - Project Engineer, commented, "We looked carefully at a number of options which included the concept of the Tema machine as a high resonance and high action screen that would satisfy our needs. After supplying Tema Machinery engineers with test material, (with positive results) two of our key personnel were invited to visit a similar application in Belgium and were very satisfied with the performance of the equipment."

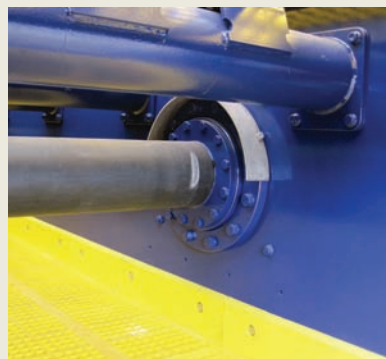
"It was obvious from the outset that the uniqueness of the computer controlled synchronisation of the two screen drives eradicates some of the traditional wear associated with trying to link two separate drive units together. As this is normally done by mechanical means of either teeth or belt or similar system the Delta II proved to us it was certainly innovative and offered us the best chance of recovering good material from the scalped element of the product."

With the mechanisms positioned over the spring mounts the Delta II screen provides very quick synchronisation by electronically timing them away from the mechanical timing, thus equating to a very smooth electronic and mechanical operation with no excess vibration in the structures.

Kevin Sargant - QM, commented, "Given the difficulty of the product and a brand new plant the screen has functioned perfectly. We did have to make some changes to the feed size and the amount we put over the screen but after the feed changes the scalped product off the screen we have had is very good."

"There was also a preference to go with the WS85 media system as it was already in use in the quarry on the final screening section and had proved very cost effective over the years. The beauty of the polyurethane modules is that if you only get wear in one section they are simple and easy to change, rather than the complete deck. There is also the noise consideration as they are much quieter than the traditional woven wire, with the manual handling aspect being more in line with safe lifting limits. We also found that as the weather changed, the material changed it was easier to make changes to suit and with the new system this became much quicker than previously.

Peter Restorick, further commented, "The screen was installed by the project contractor Centristic in a near seamless operation. We found that the machine was of excellent build quality and after installation, initial operation was very straightforward. The German engineers were also very responsive if we needed assistance at any time and although we had some initial teething problems with setting up the software, these were quickly and easily resolved."



The Screen being lifted into position

"It was essential that we maximised the efficiency and output of the new plant. The main criteria behind the purchase and selection of the Delta II screen was that we recognised there was an element of the product going in the scalplings that we could recover and put through the cone crushers, subsequently maximising the amount of reserve we were utilising. The Delta II has provided us with the means to achieve this."

TEMA (Machinery) Ltd has a number of high quality sister organisations within the group, such as Hein Lehmann GmbH, Siebtechnik GmbH, Steinhaus GmbH, Isenmann Siebe GmbH, Multotec PTY (RSA) and Tema Isenmann Ltd.



# Major success for CDE Global with North Carolina wash plant project



**A new modular wash plant from CDE Global in North Carolina is producing golf sands which are being supplied to Pinehurst Golf Club, venue for the 2014 US Open Championship from 19-21 June 2014.**

In 2013 GS Materials investigated the possibility of a new wash plant that would solve the problems that the company was experiencing with their existing processing system. The existing plant was over forty years old and was not processing clay lumps in the material nor was it recovering fine sand from the waste material. The company came to the conclusion that the wash plant was no longer efficient and they needed to find a new solution.



The efficiency requirements for a new system were threefold. Firstly, GS Materials required a water treatment plant. This was the main requirement as recycling water would result in a significant cost saving for the company. Secondly, they wanted to recover the fine sand that they were losing. Thirdly, the washed aggregate products should not have any clay lumps but should be washed, sized and saleable. The product requirements were to produce 200tph of concrete sand, top size less than 3/8" and less than 3% below 200mesh, to produce a USPGA golf sand, a mason sand and 40tph of aggregate divided into three different sizes. "As well as production and efficiency requirements we specified that we didn't want a turnkey, bespoke system that would take weeks and weeks to design. We wanted an off-the-shelf modular package that was ready to work. CDE could provide this" explained GS Materials Quarry Manager, Mr Troy Russell.

CDE was awarded the contract and the plant was commissioned in December 2013. CDE recognised that GS Materials wanted to see material on the ground in the shortest possible timescale and therefore used the CDE product range as modular components - or individual building blocks - ensuring minimum set up time as well as reducing costs by eliminating the requirement to build supporting structures. These 'building blocks' are all from the CDE core product range; the M4500 wash plant, an AggMax 83 integrated scrubbing system, AN EvoWash sand plant with an integrated CFCU, and an AquaCycle 600 thickener with a CDE AquaStore for water storage and recirculation around the plant.



## The Process

### CDE Product 1: M4500 modular wash plant

The M4500 processes 270tph of natural sand and gravel from the Jackson Springs quarry. This raw feed contains high silt content with over 10% under 200mesh. The integrated L35 hopper on the M4500 modular wash plant is fed via a wheeled loader and has a capacity of 34T. The spacings on the hydraulic tipping grid have been specifically selected to ensure that any +5" aggregate is immediately rejected by the hopper and does not enter the plant. From the hopper, material progresses up the feed conveyor which is fitted with a belt weigher to monitor the flow of material through the plant and relay real-time capacity information to the plant operator.

The feed conveyor transports the material into the integrated ProGrade P2-75 rinsing screen. The ProGrade has 2 decks with each screen measuring 16x5ft. The +2" material, which amounts to less than 1tph, is removed on the top deck and stockpiled via the first conveyor on the M4500. This stone, the first product from the plant, is washed and ready for GS Materials to sell for landscaping projects. Meanwhile, material smaller than 2" passes through the top deck of the ProGrade and the 3/8"-2" product is removed on the bottom deck. This product is transferred via a 30ft conveyor to the next stage of processing, the AggMax 83.

### CDE Product 2: AggMax 83

Material enters the AggMax 83 and is deposited into the back of the RotoMax logwasher where it encounters two counter rotating spiral shafts which are designed to scrub heavily claybound material. The high chrome cast iron paddles in the RotoMax logwasher force the claybound material to travel along the logwasher while intensely scrubbing it. During this process the clay and

lightweight contaminants are floated off at the back of the RotoMax onto a trash screen which recovers good quality sand from the aggregate fraction while stockpiling the waste material.

The trash screen introduces an additional step to the sand recovery process, recovering sand that would have previously went to waste. The liberated fine material enters the sump and from here is pumped back to the M4500 ProGrade sump for further processing. The scrubbed aggregate material travels up the inclined RotoMax logwasher until it reaches the tip and is then discharged from the RotoMax onto a three-deck sizing screen. The first deck removes the 1"-2" aggregate, 1/2"-7/8" is removed on the second deck and the 1/4"-1/2" product is removed on the third deck. These are stockpiled by three 50ft mobile conveyors and produce 3 sized and washed aggregate products for use by GS Materials, as per the company's initial requirements.

Meanwhile, the fine material from the RotoMax sump joins the material which earlier passed through the second deck of the ProGrade screen (0-3/8") and is pumped to the dual hydrocyclones on the EvoWash sand plant which is integrated on the M4500. The +200mesh-1/4" material is discharged from the bottom of the cyclones onto the EvoWash dewatering screen. The dewatering screen consists of some large 16mesh apertures allowing some of the +200mesh-1/4" to fall into the sump below. However the majority of the material travels down the screen deck and produces 200tph of 200mesh-1/4" concrete sand which is stockpiled via a 80ft radial conveyor and is the fifth product produced from the plant. Meanwhile the -200mesh fraction overflows the hydrocyclones and is transferred along with the waste water to the next stage of processing.

### CDE Product 3: EvoWash sand plant

The material which passed through the dewatering screen on the M4500 enters the sump and is pumped to the CFCU 70 integrated on the EvoWash B40 sand plant. The Counter Flow Classification Unit is used in the production of the golf sand. It uses upward flow classification to separate particles by density and eliminates the oversize sand particles from the final golf sand product. The fine material removed in the CFCU through the hydrocyclones is sent to the AquaCycle A600 thickener, along with the overflow from the EvoWash hydrocyclones. The material that is discharged from the bottom of the CFCU is the GS Materials golf sand. It is a 200-75mesh product and is discharged onto one half of an EvoScreen and then via the sixth conveyor on the plant to produce a golf sand stockpile.

"When we first detailed our requirements for this new wash plant our main aim was to produce high quality concrete sand and capture the fines sand we were losing. When CDE suggested that we had the capability to also make golf sand we grasped that opportunity. The result is a first class USPGA golf sand which we are now supplying to Pinehurst Golf Resort, one of the preeminent golf resorts in the United States and the site of the 2014 US Open in June 2014" explains Mr Russell. He also highlighted the advantages of CDE ProMan which dedicates a project manager to every customer to ensure that the project is delivered on time, to budget and to specification. "Colum Bryson managed our project on our behalf and supplied all required information, including detailed information on golf sand production, ensuring we were aware of all requirements throughout the build, transport, install and commissioning of our wash plant."



CDE has ensured that GS Materials have the option of making a 200-75mesh golf sand or blending their golf sand back into the plant to make a masonry sand. This is the current process as the material from the sump of the CFCU still contains valuable product and therefore is reprocessed through an extra cyclone and the discharge is dewatered onto the second half of the EvoScreen and then to a masonry sand stockpile. Mr Russell commented "Masonry sand requires a mix of sizes with a smooth bottom end for building and plastering purposes so we are successfully blending our golf sand and mason sand to produce a final masonry sand."

## **CDE Product 4: AquaCycle A600**

The final stage of the process is the AquaCycle water treatment system, which receives all the excess fines from the EvoWash and CFCU cyclones. The AquaCycle is a fit-for-purpose steel tank with a feed rate of 2640 g/min. A polyelectrolyte dosing station acts as a delivery system of polyelectrolyte to facilitate the settlement of sludge. "Sludge settles at the bottom of the tank where a set of rakes ensure that the sludge is maintained at an even consistency before it is discharged to ponds" says Mr Joel Prince, General Manager for CDE in North America. "The AquaCycle water treatment system reduces the volume of fresh water required to feed the plant by up to 90% while the AquaStore recycles the recovered water around the wash plant."

## **GS Materials**

GS Materials is a family owned sand company that has been in operation since 1984. It is located in Burlington, North Carolina with nearby sand quarries in Lemon Springs and Jackson Springs. GS Materials serves almost the entire state of North Carolina including its capital, Raleigh, and its largest city, Charlotte. Sand and aggregates are also transported to the neighbouring states of South Carolina and Virginia. The primary product produced by GS Materials is DCDOT (North Carolina Department of Transportation) approved concrete sand but the company also supplies a wide range of other sands and aggregates.

Founder and Chairman, Tony Convery, commented on the first modular wash plant for CDE in the USA, "Our product range has been designed around core themes including rapid deployment, reduced plant footprint and increased production efficiencies all done in partnership with a commitment to ensuring quick, easy and safe maintenance access for all operational personnel. We pre-wire and pre-build every unit before it leaves our factory to ensure that once we get to site we can have the plant up and running in the shortest possible time."

The performance of the CDE wash solution has been extremely positive for GS Materials, as highlighted by Owner, Mr Ronnie Kirkpatrick, "We approached CDE with a number



of key requirements in terms of efficiency, performance and modularity. It was crucial to us that we would have a water treatment facility and that we could recover the fine sand we were losing with our previous system. The result is in-specification products that are ready for sale and reduced costs in terms of the amount of water required to operate the plant, and significant savings in the management of the sludge lagoons."

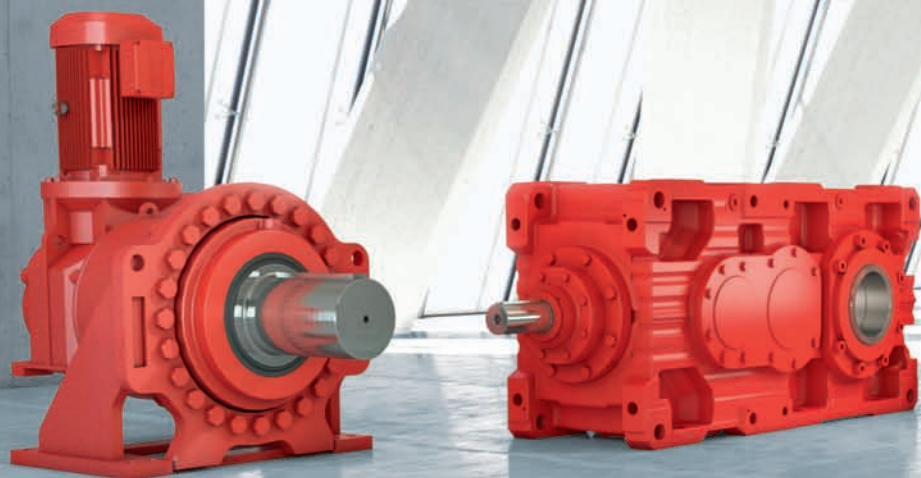
The construction aggregates industry in the US produced two billion metric tons of material in 2013 and as 2014 begins, the industry is optimistic as the economy overall is continuing to improve with aggregate producers in many parts of America, including North Carolina, continuing to see an increase in business. The McGraw Hill Construction's 2014 Dodge Construction Outlook forecasts that commercial building will increase by 17% in the US with warehouses and hotels expected to lead the way. Also, efforts are underway to lobby for a new highway bill to fund US transportation infrastructure improvements. All of this is good news for concrete sand producers like GS Material, who will have a busy 2014 ahead.



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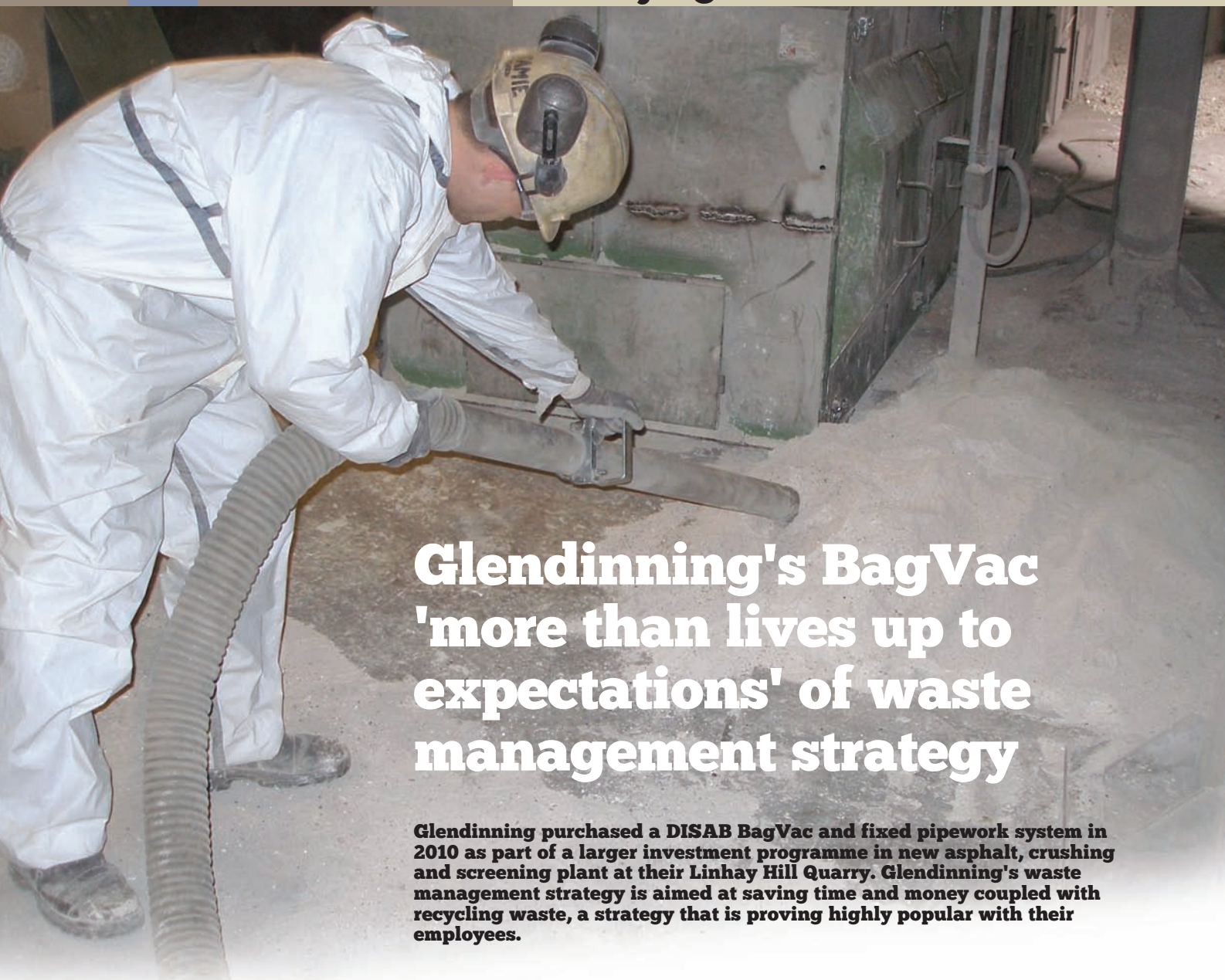
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# Glendinning's BagVac 'more than lives up to expectations' of waste management strategy

**Glendinning purchased a DISAB BagVac and fixed pipework system in 2010 as part of a larger investment programme in new asphalt, crushing and screening plant at their Linhay Hill Quarry. Glendinning's waste management strategy is aimed at saving time and money coupled with recycling waste, a strategy that is proving highly popular with their employees.**

### Family company, market leader

E & JW Glendinning is the largest independent supplier of quarry and concrete products both to the trade and direct to the end user in Devon and Cornwall. Today, Glendinning's is still wholly owned by the founders' families and many family members remain actively involved in the day-to-day running of the business that now employs over 230 people.

Based near Ashburton, E & JW Glendinning produces aggregates along with asphalt, ready-mixed concrete and concrete products, with quarry operations at Ashburton and Bude, concrete plants at Ashburton, Plymouth, Exeter and near Torquay, a block plant producing in excess of 5 million blocks a year, and a paving and walling division producing both Industrial and Decorative products.

The investment programme at Linhay Hill Quarry has doubled the capacity of stone throughput and opened up valuable limestone reserves located under the 30 year-old redundant processing plant, thus securing the long term future for the 55 year-old business.

### Major re-investment in new plant and waste management systems

Back in 2010, the investment programme was to replace plant that had reached the end of its engineering lifetime, and the first major item was a new £2.5m asphalt plant in March of that year. It was designed and built with fixed pipework and inlet valves on all four floors comprising a screen, hot stone

bins, mixer and skip levels, so that for the first time all floor areas and surfaces could be reached with a DISAB BagVac's 60' flexible suction hose.

Quarry Manager at Linhay Hill, Neil Gibbs, talked about the efficiencies gained. "Previously, our quarry operatives would have done all this manually using brushes and brooms, shovels and barrows. On the upper floors of any plant, sweeping all the dust and waste into a pile is one thing, moving that down to ground level for collection and removal is quite another."

"In addition, because of the very fine dust these processes create, brushing makes more dust and there's a significantly higher risk of dust exposure to our employees, something that we were determined to eliminate through design. As a result in each of the new plants, ie. asphalt, crushing and screening, fixed pipework systems were built-in and inlet valves were provided on each floor so that the flexible suction hoses could be attached."

"With the completion of the investment in 2012 the full potential of DISAB BagVac was realised, as our plant operatives were then able to use it to power the pipework system in all the plants and suck up everything in the way of dust and waste up to 50mm in size. This has made a dramatic difference to the dust and waste removal efficiency, and as importantly, has minimised the risk of dust exposure."

## One tonne of dust and waste a week removed and 100% recycled

Neil continues, "In terms of how much dust and debris is removed, it's around one IBC or 'Dumpy' bag a week, approximately one tonne from all three plants. All we have to do is to move the BagVac with a forklift or telehandler to wherever it's needed alongside the plant, connect it to the pipework inlet, turn the BagVac on and it's ready to clean each floor and every surface."

"On the crushing and screening plant, we set aside about three quarters of a day a week for plant maintenance which includes cleaning and housekeeping tasks, but on the hot asphalt plant we usually do the cleaning on a Saturday morning. All the material is collected in the IBC bag and then put back into the process, so there's zero waste."

## Surpassing expectations, employee engagement, and ensuring quality product

Neil's delighted with the BagVac, and so are his quarry employees, as he explains, "The DISAB BagVac's more than lived up to all our expectations. As the key cleaning system on each plant, the BagVac ensures all the possible dust, debris and waste it can handle is removed safely and efficiently. The use of a plant vacuum system is clearly far more efficient than brooms and brushes. Everything goes into the collection bag, and from nozzle to bag it is a fully enclosed process."

Neil comments, "It's far more popular with the employees as well, who no longer have to face the back breaking and very laborious chore of doing this manually, and of course, they know they're working in an environment that's relatively dust-free and in which the risk of dust exposure is minimised."

Neil sums up the bottom line benefits for Glendinning. "All this makes a difference to the external inspections as well," he says, "When BSI comes to inspect our product quality, a clean and dust free plant is a major factor in their audit. Processing plant that's kept clean means quality end product for our customers. In what we all know is a very competitive marketplace, that kind of endorsement is priceless when it comes to winning and retaining business."

## Operational detail and technical capability

The DISAB BagVac™ is an electrically powered suction unit, mounted onto a rigid stand equipped with retractable legs for the removal or reclamation of spillages, waste material and general housekeeping, but on an industrial scale.

Whether you need to clean up or reclaim anything from fine dusts up to 50mm debris, this unit generates a high levels of vacuum so it can easily pull waste material over long distances, both horizontally and vertically, through flexible suction hoses. Well proven reliability in tough working environments, the Bagvac's fully enclosed recovery system removes all debris and airborne dusts efficiently for easy disposal or recycling.



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# Tier 4 final JCB 457 shows off new JCB 'Commandplus' Cab

**JCB took the wraps off a striking new wheeled loader design at this year's Conexpo exhibition - complete with the all new 'JCB CommandPlus' cab. The powerful JCB 457 is the first machine to show off the completely new cab structure, engine cover and rear counterweight design, all of which contribute to improved visibility, lower noise levels, increased internal space and an enhanced working environment for the operator.**

In addition, the 457 is the first large JCB wheeled loader to meet Tier 4 Final emissions standards, with the adoption of a powerful MTU diesel engine that is perfectly matched to the machine's operating duties. The engine contributes to a massive fuel saving of around 16% compared to the previous model. As with other JCB machines, the engine in the 457 meets Tier 4 Final without the need for a costly diesel particulate filter (DPF), relying on an efficient combustion process, with a selective catalytic reduction (SCR) system and an exhaust fluid additive to meet the regulations.

## **New JCB CommandPlus cab**

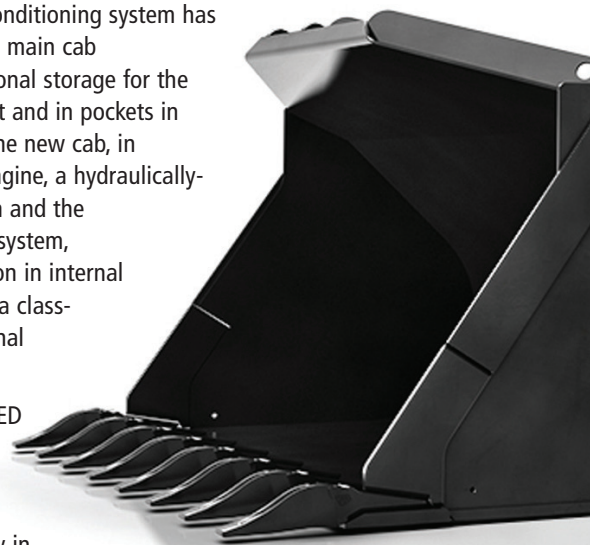
The 457 is the first machine from JCB to utilise the company's next generation JCB CommandPlus cab, offering operators the ultimate in comfort. This totally new ROPS structure has A pillars that have been moved out to the same width as the rear of the cab, providing a larger interior with a panoramic front windscreen. The machine features JCB's Command Driving Position, with revised pedals, a new adjustable steering column and seat-mounted hydraulic controls.

All switches and auxiliary controls have been repositioned on the right hand A pillar, providing the operator with a simplified interior and easy access to all machine controls. The 457 has two full colour LCD screens, one in the central console and a second at the top of the right hand A pillar. This second screen incorporates access to the loader's operating menus and acts as a monitor for the machine's rear view camera.



The JCB CommandPlus cab delivers increased internal space as the heating, ventilation and air conditioning system has been repositioned outside the main cab structure. This provides additional storage for the operator, both behind the seat and in pockets in the front and side consoles. The new cab, in combination with the MTU engine, a hydraulically-driven on-demand cooling fan and the repositioned air conditioning system, contributes to a huge reduction in internal noise levels, from 71dB(A) to a class-leading 67dB(A), subject to final production tests.

Operators also benefit from LED lighting all round and the option of electrically adjustable and heated mirrors, for maximum visibility in all operating conditions. The rear view



mirrors are now mounted in front of the repositioned A pillars, making it easier for the operator to see all around the machine. The cab door is hinged at the front, allowing easier access and exit from the machine for the operator from the steps. This also makes it easier for technicians to access the engine for regular maintenance and service work.

### **More Power, Lower Emissions**

The JCB 457 is powered by a 7.7-litre MTU Tier 4 Final engine, delivering 193kW (258hp), up from 186kW (250hp) on the previous machine, despite the smaller engine capacity. More importantly, the engine delivers this increased output at lower rated engine revs, cutting fuel consumption, noise and emissions. JCB has also fine-tuned the match between engine, torque converter and transmission, to perfectly match the engine with both the standard four-speed and optional five-speed transmissions. This has resulted in fuel efficiency gains of up to 16%. As with other JCB machines, the 457 achieves Tier 4 Final emissions standards without the requirement for a costly and complex DPF. This reduces cost and service time for customers, increasing uptime and profitability.

The most visible change to the 457, aside from the new cab, is the adoption of a sloping one-piece engine canopy. This engine cover can be electrically raised away from the cab to provide improved access to the engine and drivetrain for regular maintenance. The rear section can also be hinged away from the machine to provide access to the cooling pack, which now features a swing-out hydraulically-driven, on-demand cooling fan situated at the rear of the machine.

The new JCB wheeled loader design, with improved operator environment, easy access to regular service points and class-leading levels of comfort and control, will be adopted by smaller models in the line as they move to Tier 4 Final emissions standards over the coming months.

The Tier 4 JCB 457 will come as standard with JCB's LiveLink telematic system. This provides fleet managers and owners with remote access to real-time fuel consumption and machine working data, including operating hours and fault codes.

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**JCB LiveLink also allows customers to set working hour curfews, outside of which the machine will not function, along with geofencing. This permits the owner to set a geographical area in which the machine can work. If the loader is taken out of this area it will not start, preventing theft from site.**

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# Extension of BoWex-ELASTIC® HE series

### Highly flexible flange couplings - size XXL

BoWex-ELASTIC® HE is KTR's coupling series of highly flexible flange couplings developed to transmit the torque reliably. The HE's natural rubber component allows the coupling to compensate for misalignment in the drive train of combustion engines and effectively dampen any vibrations in the drive system. The HE design has seen many years of use in the field as a vital system component on various construction machines and other mobile machines, proving its durability and reliability time and time again. Building on these strengths the HE has recently been supplemented by three more sizes for high performance ranges.

Going forward, the HE couplings will now be able to transmit a torque up to 20.000 Nm and can therefore be used on diesel generators, biogas plants and other high-power stationary and mobile drive systems.

The hubs of the larger HE sizes are a design continuation based on the well-known and approved BoWex® curved tooth principal, providing the ability to compensate for high misalignment while having a long service life. The flange dimensions of the new sizes follow the usual SAE dimensions, however, on request of the customer, KTR can produce special solutions without need of adapters.

One of the many benefits of BoWex-ELASTIC® HE is it's allowance for axial plug-in which helps ensure an easy assembly. Particularly important for the larger series is the optimised use of natural rubber. Intelligent design principals and KTR's extensive experience with the development of vibration-damping couplings have resulted in achieving an ideal balance between damping and stiffness while minimizing the overall requirement of the valuable natural rubber material.



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## Major upgrade in news sorting facility

**Norse has selected Machinex Industries Inc. to provide a major upgrade for its subsidiary company Norfolk Environmental Waste Services (NEWS) Material Recovery Facility (MRF) in Norwich, Norfolk. The existing 10-year old plant processes 15 tonnes per hours of single-stream recyclables (excluding glass) and, following the installation, the upgraded plant will be able process single-stream recyclables (including glass and plastic pots, tubs and trays) at 35 tonnes per hour. The upgraded system will be fully operational by 1st October 2014.**

Jonathan Menard, Sales Engineer at Machinex says: "The big challenge for us was to design a new highly-automated and efficient system, amalgamating the existing equipment into the final design. NEWS requires continued operations throughout the installation and, as such, Machinex has incorporated significant levels of existing equipment within the facility by either modifying them (in their current position) or relocating them. The existing electrical controls will also be upgraded alongside the implementation of a new control system, thereby ensuring all machinery and health and safety systems are brought up to the highest standard. After a rigorous procurement process, Machinex is proud of been selected for this major and challenging upgrade which will allow us to demonstrate once again our capabilities in the UK market".

The facility upgrade equipment will be installed in 2 separate phases. The MRF will be able to operate at increased throughput levels following the first phase of the installation. This phasing approach will massively reduce the operational downtime of the plant through the full installation, which is

critical to our ongoing commitment to processing materials for the Councils in Norfolk. Dave Newell, Operations Director at NEWS says: "We chose Machinex because of their expertise in MRF design and installation. They were able to demonstrate an ability to upgrade the MRF in multiple phases, thereby delivering immediate and longer-term operational benefits. This approach will also minimise downtime during installation".

### System Overview

The upgraded system from Machinex includes a combination of the latest sorting technologies which will increase processing capacity and the recovery of a greater range of commodities at a similar or higher quality without increasing the number of sorters. It will segregate single-stream materials into the following high quality fractions: cardboard, news & pams, mixed paper, glass, metals containers, clear PET, natural HDPE, plastic bottles and mixed plastics. Machinex is including an OCC Screen quadruple deck, which will discharge the fines and the glass on the two first decks while the corrugated cardboard will be screened on the two final decks. The glass fragments will be cleaned by a magnet, an eddy current and a Machinex glass clean up system to ensure its high purity. Four Mach One news & pams separators along with three optical units will be incorporated to the system and a Machinex ballistic separator will also be added to help the existing system in segregating the 2D (fibers) from the 3D (container) fraction. The overall plant layout and design offers various operational flexibilities, thereby enabling NEWS to undertake maintenance on the main pieces.



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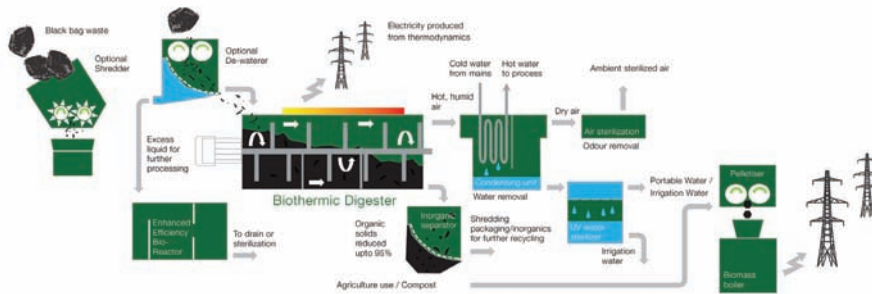


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## Bio-thermic Digester



## Advetec announces industrial scale Bio-Thermic Digester to eliminate organic waste to landfill

**Proven to reduce solid and liquid waste volumes by 97% within 72 hours**

Advetec, a leading UK specialist in the use of advanced environmental technologies for the treatment of solid and liquid organic waste, has launched an industrial scale Bio-Thermic Digester (BTD), designed to rapidly process and significantly reduce high volumes of municipal waste.

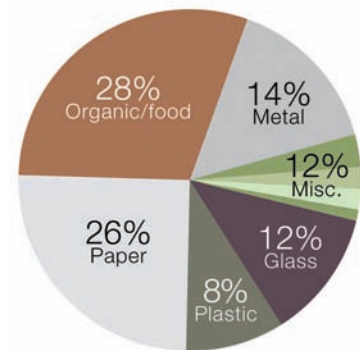
The Bio-Thermic Digester's unique design and size can turn tonnes of municipal co-mingled waste, food and industrial liquid waste quickly into distilled water and a dry powdery by-product, to be sold as high quality, refuse derived fuel (RDF). Advetec believes companies can expect a return of investment (ROI) within 16-18 months.

Just under 30 million tonnes\* of waste is still going to landfill each year. For waste management companies, there has been little choice in how to deal with co-mingled and organic waste, generally around 40% of municipal waste. High water content makes it very expensive to transport and it is both costly and inefficient to incinerate. Anaerobic Digesters only convert 30% of waste to methane, leaving digestate which, due to increasing levels of heavy metals and inorganic residues, limits its use as a soil conditioner.

The result of eight years' development and manufactured in the UK, the Advetec Bio-Thermic Digester is a containerised solution capable of converting 33 tonnes of organic waste material over a 48 to 72 hour period, reducing the volume by over 97%. The resulting discharge is mostly clean water and a small percentage of high quality RDF powder. While contaminated RDF uses up more energy to dry and burn off solids (which cause odour emissions), the RDF powder produced by Advetec's Bio-Thermic Digester is dry and quick to burn.

Advetec's technology has been trialled, tested and installed in applications over the last 4 years in the UK, the US and the Middle East. Unique to the company's approach is its understanding of aerobic bacteria, the bio-stimulant technology used to invigorate and speed up the digestion process, combined with advanced engineering and continuous remote monitoring to ensure an optimal processing environment.

Advetec CEO Craig Shaw explains: "With our new industrial sized Bio-Thermic Digester's we can truly make zero organic waste to landfill a reality. We can turn co-mingled waste and anaerobic digestate into a valuable resource. Since our digesters require little electricity to run, on site processing costs are around £1.99 per tonne. But I believe the savings on vehicle movements alone will be highly significant for the industry."



Typical UK black bag content

### Waste Processing:

Organic Matter reduced by 95% in 72 hours.

Non organic matter returned sterile and ready for recycling

Shaw continued: "We are already seeing significant interest both here and abroad from medium to large waste companies, municipal authorities and food manufacturers where large volumes of organic waste are an issue. Since this technology is completely scalable, banks of digesters can be linked to handle ever increasing volumes of waste, or each digester can be moved from site to site."

The BTD is container size and part of a complete British made system comprising hoppers, shredders, augers, storage tanks and piping, designed and tailored to match each customer's differing needs. For waste collection, the digester can join an existing processing line and, as it is operated remotely

# R. Collard Limited Installs Bespoke MRF from BlueMAC

**Leading manufacturing company BlueMAC has designed and built another tailor-made installation; this time for R. Collard Ltd and supplied by Blue Machinery London. The new MRF has been created to Collard's specific requirements and is incorporated into the new 80m x 30m under-cover building at the company's recently opened state-of-the-art recycling facility in Eversley, Hampshire - one of four recycling centres operated by Collard.**

R. Collard Ltd is owned by the well known Touring Car racing driver Rob Collard and has been established for over twenty years. This versatile company is a leading demolition specialist with divisions also providing skip hire, haulage, earthworks and recycled aggregate production. Alongside these interests is a burgeoning involvement in waste management. The new MRF is part of a planned expansion of the company's recycling activities and is a necessary investment to help cope with the steady rise in waste material volumes available for recycling, which is largely as a result of Collard's increased demolition work and expanding skip hire activities. As well as contributing to Collard's growth in waste management, the new MRF will play a major part in ensuring minimum tip-to-landfill from the incoming waste-stream, as well as producing high volumes of clean, saleable recycled materials. The MRF will predominantly process construction and demolition waste but, with future proof versatility built in, will be more than capable of handling other waste materials such as C&I (commercial and industrial) as the need arises.

Commenting on his company's new acquisition, Managing Director Rob Collard said "We've been working with Blue Machinery London for many years and found their experience and expertise on this project to be invaluable. From the outset at the concept stage right through to installation, the communication and attention to detail were second to none. From innovative health and safety benefits to understanding our operational needs, the BlueMAC team understood our requirements throughout and I feel the success of the plant is a result of this". Paul Donnelly, General Manager at Blue Machinery London, responded "The plant went in really well and we are delighted that our long-standing customer is pleased with the result. I'd like to thank our design and installation team for their great work and also Pete Duggan and staff at Collard for their cooperation and support throughout the project."

The BlueMAC MRF begins with a variable speed belt feeder steadily conveying the incoming waste stream into a 2510 trommel, which removes fines at 50mm and which are then transferred on a 50 metres long transfer conveyor to the fines clean up system at the other end of the building; en route the fines pass an overband magnet which removes any ferrous metals. The material is transferred into the fines processing system by a conveyor fitted with a magnetic head roller for smaller ferrous metal extraction which is collected via a chute into a skip. The remaining material passes over a flip-flow screen for processing of fines to -10mm. The 10-50mm is then segregated through a GK air classifier for heavy and lights separation, the light fraction being ideally suited to the production of SRF (solid recovered fuel)

After the trommel the 50mm plus material passes an air separator before entering the picking station, which has been purpose-designed in a six-bay, double-sided configuration with 6 additional drop boxes for high value material such as non-ferrous metals or cabling. The station is comprised of an extra wide cabin for operatives' safety and has been supplied complete with industrial specification on wiring, heating and lighting for a comfortable and safe working environment. The picking station's 1500mm wide conveyor belt, with variable speed, provides optimum material spread allowing maximum recovery. An overband magnet after the picking station cleans up the remaining material, dropping ferrous metals into the same collection area as that on the fines transfer belt. The last part of the process sees the material conveyed past a secondary air separator to give a final clean to the hard core.


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## New McCloskey R155 High Energy Screen for PC Excavations

**PC Excavations, based in Doncaster has recently taken delivery of a new McCloskey R155 High Energy Screen which has been supplied by approved distributor Aggregate, Processing and Recycling (AGG-PRO) of Tamworth, Staffs. The McCloskey R155 has been employed to complement their existing wash plant at their Auckley Recycling Facility.**

PC Excavations have over 40 years' experience and apply their expertise to a wide range of projects, from earthworks and demolition to waste management and recycling to the construction, civil engineering and associated industries. Working closely with clients the company provides advice on the best demolition methods to be utilised, completing feasibility studies and establishing the best recycling opportunities, based on strong and efficient recycling procedures.

The latest addition to their fleet; the McCloskey R155 will provide more 'muscle' to their washing operation at Auckley. Mick Preston - MD, commented, "We are constantly keeping a watchful eye on the latest technologies available to the industry. The R155 fits the bill perfectly and will allow us to process materials efficiently which will save our clients time and money. We also have the back-up from AGG-PRO and feel very secure that we have a professional parts and service package in place."

A tough, robust screening tool, the R155 is designed to cope with the heaviest of applications. With the ability to handle some of the worst, untreated construction and demolition waste, the R155 can minimise material pre-handling, and provide clean end products.

### **Extremely effective across a wide range of applications:**

Driven by a 127 HP power unit the R155 has proved to be extremely effective across a wide range of applications. With 155sq feet of screening area, the largest in its class, the R155 is an impressive performer in operations including primary crusher circuits, site reclamation, construction and demolition waste, heavy rock, sticky clay and fines, and boulder clay.

The ability of the R155 to handle larger material comes from its open feed design, along with the largest hopper, thickest feed belt and oversize conveyor belts in the industry, and full length impact bars. The High Energy Screenbox provides the ability to screen wet sticky material, ensuring the R155 performs in the most difficult of applications.

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## New Doosan Wheel Loader and Excavator at ETM Recycling

**ETM Recycling, based in Bristol in the UK, has purchased new Doosan Stage IIIB compliant DL250-3 wheel loader and DX140LC-3 crawler excavator models. Supplied by Kellands (Plant Sales) Ltd, the Authorised Dealer for the Doosan and Bobcat range for the whole of South West England, the new Doosan machines are part of over £750,000 worth of new investment in ETM's state-of-the-art screening and crushing facility at Durnford Quarry in Bristol.**

Making it possible to convert up to 250 tonne of inert waste and aggregates per hour, the new investment in the Doosan DL250-3 wheel loader, DX140LC-3 crawler excavator and other equipment including a new crushing and screening system, ensures ETM can provide a wider range of recycled aggregates and topsoil to the highest grade, at a cost-effective price.

This latest investment in the facility has created new full time jobs in order to process and manage the increased volume of waste. In addition, it has also allowed ETM to provide customers with a sustainable alternative to quarried materials, which diverts over 2000 tonne of waste per month from landfill.

Diverting received waste from landfill is a central tenet of business at ETM, with ongoing investment ensuring over 91% of received waste is now recycled, instead of going to landfill. Formed only three years ago, ETM Recycling is a family-run business that has expanded rapidly and now offers a full waste management, waste collection, recycling and skip and dumpy bag hire service.

Amy McCormack, Business and Marketing Manager at ETM, said: "As one of only a few recycling businesses in Bristol,



we are totally committed to providing our customers with a cost effective and environmentally friendly solution to ever increasing waste disposal requirements. We are very pleased with the high performance and reliability of the new Doosan equipment together with their lower running costs, all of which contributes to an increase in efficiency throughout our business, allowing us to offer an enhanced service for companies and local authorities throughout the area."

Powered by the Doosan DL06K 6-cylinder EGR diesel engine, delivering 128 kW at 2100 RPM, the new generation DL250-3 wheel loader from Doosan combines high engine power with a number of new features to minimise fuel consumption and provide better operator comfort, exceptional performance, ease of handling, easier serviceability and extended durability. The DL250-3 wheel loader has a bucket capacity of 2.5 m<sup>3</sup>, a static tipping load (straight) of 11000 kg and dump height (at 45°) with bolt-on teeth of 2750 mm.

The new 14 tonne DX140LC-3 crawler excavator is also powered by the Doosan DL06K engine, providing 15% more power [82 kW (109 HP) @ 1850 RPM (SAE J1995)] than the previous Stage IIIA model. Contributing to the overall reduction in fuel consumption in the new DX140LC-3 excavator is the improved cooling efficiency and the installation of a new fan clutch with electrically controlled fan speed.





## SJB Recycling (Yorwaste Ltd) purchase yet another Neuenhauser Star Screen

**Riverside Machinery has delivered their latest Neuenhauser star screen to long standing customer SJB Recycling.**

The machine in question is a mobile Neuenhauser star screen which is fitted with a windshifter for cleaning the oversize and will be put to work screening green waste on the various Yorkshire Water sites the company operates throughout Yorkshire. The company currently run several Neuenhauser star screens and are seen as the only machine to be used for their screening operations due to the high output and quality of separation achieved.

This is the latest generation star screen from Neuenhauser. Stand out features include a 4 litre JCB power unit, class leading screen box with a size of 7 Metres x 1.2 Metres, high energy screw auger and CAN-BUS control system, and class leading wind shifter

SJB Recycling Ltd is a subsidiary of Yorwaste. A North Yorkshire based company specialising in the processing of waste and waste to energy generation. In 2012 / 13 a total of 953,000 tonnes of waste was processed by the company

John O'Neill comments "we are extremely proud to have such a long standing relationship with SJB. They bought their first star screen from ourselves in 2004 and since that time we have continued to build on a very successful relationship".

If you would like more information on how a Neuenhauser star screen could benefit your business please contact John O'Neill on 07766 405688 or [john@riverside-machinery.com](mailto:john@riverside-machinery.com)



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## Bruce Bring The Quarry Into The Transfer Station

**Bruce Engineering from Cookstown, Northern Ireland are launching revolutionary, new products this year which are aimed at raising the design and build standards available to recycling customers in the UK market.**

### **Complete Concept in Recycling**

Bruce aim to carry out a complete process once initial contact has been made with the client. The process is as follows:

- Initial site survey and client consultation to ascertain exact requirements
- Photographs of existing site practices and samples of materials
- Initial CAD drawing
- Revisions of CAD drawing to exact specifications
- Costing
- Post contract complete site survey
- Production of detailed 3D projections showing each individual component prior to sending to shop floor for processing
- Production of slab/electrical drawings showing ductwork/walls
- CAM process
- Delivery and installation carried out by in house, trained operatives to CDM regulations
- Snagging and handover of turnkey facility



The aim is to ensure that the same quality of engineering that Bruce have been providing to the quarrying industry for over half a century is applied to your new facility, whether you are installing a picking station or an aggregate washing plant.

### **SCOTPLANT PRODUCT LAUNCH-Materials Recycling**

At Scotplant 2014 and Hillhead 2014 (Stand C24) Bruce will be showcasing its recycling range in conjunction with UK authorised distributor SCG Supplies Ltd. There will be a new BWB 120 recycling water separator on show as well as all the information on recent washing and materials recycling facilities such as the project just completed at Grays Recycling Services near Inverness, Scotland.

### **RECYCLING CASE STUDY-GRS**

Bruce were approached in autumn 2013 by family owned company Grays recycling services.

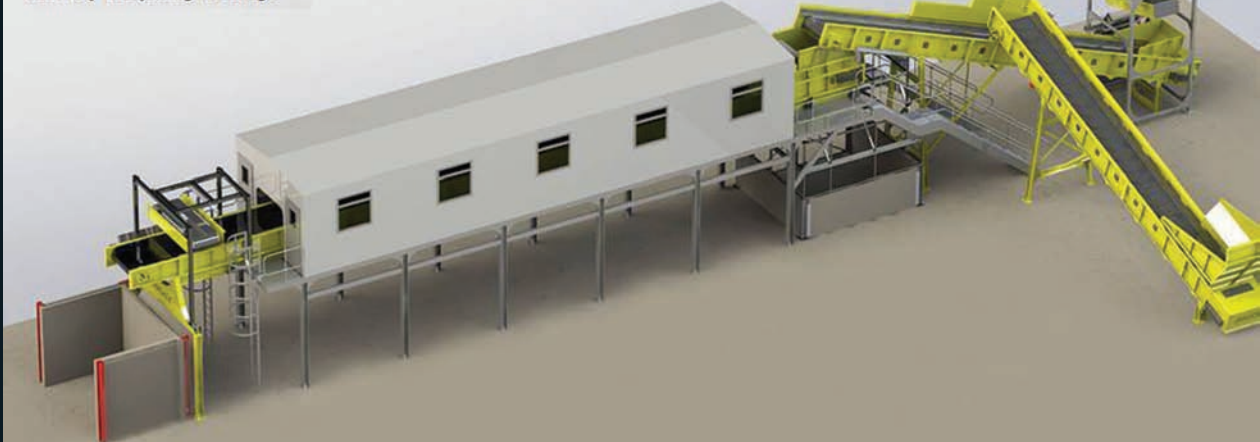
Within a few days a site visit was organised during which the customer's requirements were discussed in detail and the following brief was issued;

- Increase throughput of site
- Remove the need for sorting operatives on the ground
- Increase metal recovery
- Maximise utility of available building space
- Provide a new system on budget which is very robust and safe
- Allow both C&D, C&I as well as co-mingled (kerbside collected)wastes to be fed into the plant efficiently



From Initial Site Survey to  
Turnkey Recycling Package

> We have it all sorted...



The brief was taken back to Bruce factory and an initial CAD drawing was produced which (after several revisions to include both new requirements and small changes in the orientation of the plant) was approved and a detailed costing done.

Satisfied with the proposal, GRS gave the go-ahead for work to begin in earnest.

At this point, another site visit had to be arranged so that the site and its existing buildings and equipment could be accurately surveyed and measured.

Rather than leave the site with the information gleaned from the survey, the site was plotted on Autocad and the proposed new plant was pencilled in. This step ensured that dimensions and quantities could be checked in real-time so there was no doubt in Bruce's design team that the new plant would fit precisely, once delivered and installed.

The most in-depth and lengthy part of the process now began behind the scenes. The whole project was designed in 3D, right down to the finest detail with thousands of individual parts listed.

Once all components were manufactured and pre-assembled, they were painted or galvanised and ancillary items such as motors, bearings and skirts fitted.

At this point all items were run, tested and loaded ready for shipping.

All site installation including electrical was carried out by Bruce staff. The plant is now in and working, so has it met the brief?

Well, with throughput well up, sorting now happening in the ergonomically designed sorting house, highly efficient metal recovery and the main waste reception building being used for what it was originally intended, GRS can get on with life in the ever changing waste industry without worrying about future challenges.



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To find out more contact the Bruce Team: [caroline@bruce-eng.co.uk](mailto:caroline@bruce-eng.co.uk) or Tel: 0288676 3684





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# Bradley Demolition speed up their operation with the Lehnhoff Variolock Quick Coupler

**Bradley Demolition operates throughout the North West and also Cumbria, Yorkshire, parts of Scotland, the Midlands and Wales. Trading successfully since 1996, they offer a full range of demolition services including: demolition, consultancy, asbestos removal, soft strip out works, remediation, concrete crushing and industrial dismantling.**

They have the equipment and expertise to meet the requirements of a wide range of projects; with long experience in the industry they provide a high quality service with a strong emphasis on safety, reliability and efficiency.

They own and operate a range of specialist machines and equipment and continue to invest in the latest technology: excavators to 60 tonnes; high reach excavators - equipped with a range of excavator attachments, including cold cutting sheers and concrete pulverisers, remote-control excavators (Brokk 90 and 45), concrete crushers, skip wagons and dust suppression equipment (DB-60 water atomizer).

## Latest projects

Bradley Demolition's typical projects have included the demolition of a fire damaged office block and an old rugby stadium to make way for a housing development, as well as works at an Edwardian Mill including asbestos removal, demolition, crushing and remediation.

Their latest project involves the demolition of an old school in Winsford, Cheshire. The old building was three stories high in places, and due to its age, had a lot of asbestos to remove before the full demolition work could begin. A new school building had been built nearby and the old school was to be demolished and the foundations excavated. Almost all waste materials were to be separated out for removal or recycling, apart from the arisings.

These, Bradley Demolition are crushing and leaving on site so that they can be used to create level sports fields in the place where the old building once stood.

## Specialist equipment

Having purchased a number of demolition grabs and a Rotar pulveriser from Worsley Plant the UK distributor, they have again approached the company regarding a quick hitch system for their excavators and after demonstration the Lehnhoff Variolock Quick Coupler was supplied.

Sean Heron - MD of WORSLEY Plant commented, "Bradley wanted to line up a system where they could change all their attachments without getting out of the excavator, basically it meant that changeover times were quick and provide a much easier and safer operation for the excavator operator."

"With the Bradley excavator fitted with the Lehnhoff Variolock Quick Coupler, the operator can change any attachment from bucket to hammer in a few seconds without leaving his cab. It makes the whole operation safer and reduces downtime dramatically."





Four simple reliable parts



The Worsley Plant Team

## A perfect partnership

Paul Johnson - MD of Bradley Demolition, commented, "We were greatly impressed with our Rotar equipment and the experience of Worsley Plant so it made sense to trial the Lehnhoff Variolock Quick Coupler. We are delighted, it's made our operations much more efficient and quicker. As well as being safer it's also enabled us to reduce the number of machines we have on-site."

Sean further commented, "We began our Lehnhoff distributorship in 2013 and we see a big opportunity in the UK market for this product and it fits nicely with our existing brands, Rotar, Remu and MB and the companies we are dealing with are looking for easier and safer operating methods. One of the key features of the Lehnhoff Variolock Quick Coupler is that it reduces the number of excavators employed on site, as changing the excavator tools only take seconds."

One key benefit is the saving of not having burst pipes. As there are no loose pipes hanging, this equates to less downtime, less loss of hydraulic oil and more production time.

Other benefits from fitting the Variolock fully automatic attachment change:

- Each attachment is ready for safe use in a matter of seconds
- Increased efficiency by saving time and manpower
- More efficient working - tool changes are viable even for short working cycles
- Cutting costs by treating machinery, attachments and hydraulic hoses with care
- More safety and comfort for the operator
- Only one adapter size for 19-40 ton machines
- Less contamination of the hydraulic system, environmentally friendly
- Unrestricted oil flow - less back pressure, less fuel consumption and lower oil temperature
- Unique BID system meaning less pipe work, very low excavator interruption
- Very easy to clean and maintain

Paul finally adds, "This equipment helps put us in good position to attract future clients and show ourselves as a leading local demolition company. Worsley Plant have lived up to their reputation to offer an excellent level of service and expertise by understanding our business and the specific demands we were facing. We continue to work with them to ensure our equipment is working to its optimum level"

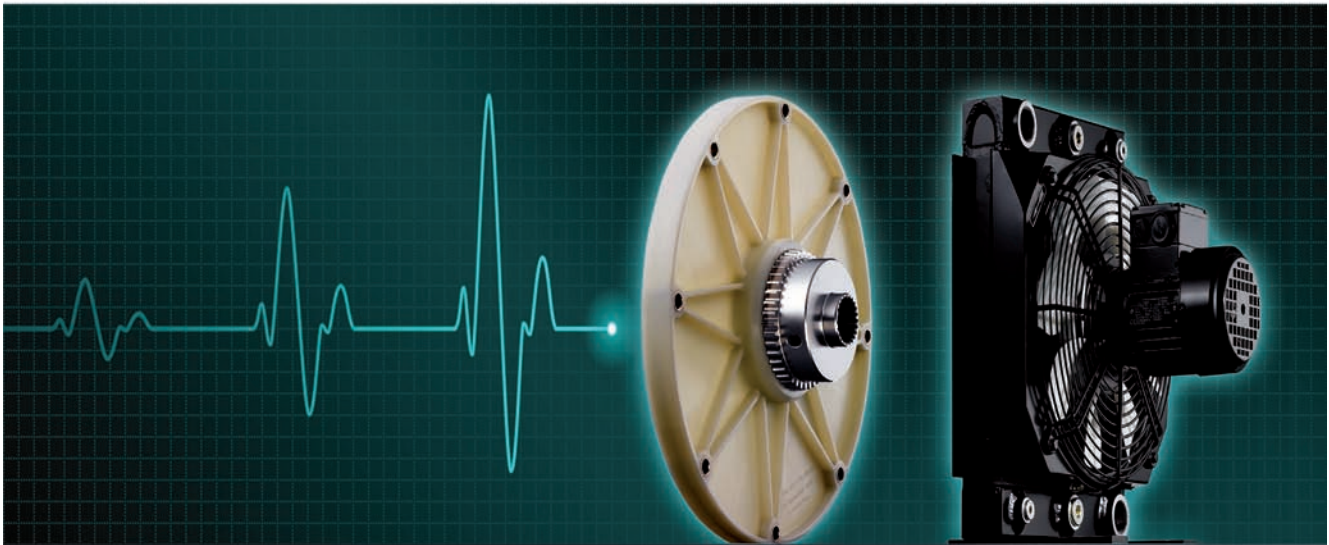
## Lehnhoff

Trading for 50 years, Lehnhoff are well recognised as the market leader in Northern Europe producing 10,000 units a year with 120,000 units in the field today.

Models in the Lehnhoff Variolock Quick Coupler range from 2 -130 tonnes.



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# Smédar adopts Precia-Molen solutions to optimise and reorganise the management of waste on its six sites.

During 2012 Smédar (Rouen Public-Private Waste Disposal Syndicate) finalised the deployment of a global interactive weighing solution on all its sites. Intended to optimise truck handling and data management from weighing, this has increased efficiency and performance through the reorganisation that followed the installation of the new system.

After a call for tenders, Smédar selected weighing specialist Precia-Molen who offered an optimum solution including tailor-made support from a dedicated team and innovative products which included high value added software from the TRADIM Company.

## **Truck Weighing - A strategic activity in Waste Management**

At the heart of the operation, truck weighing facilitates the local authority to invoice customers for the treatment of their waste. Created in 1999, Smédar operates as a local authority, recycling waste for 164 communities with 610,000 inhabitants. Every year over 450,000 tonnes of waste are received at the six sites, representing over 160,000 recorded weighings. The new solution ensures fast and efficient weighing operations and provides centralised management of data from the six sites.

In total three Precia-Molen ROC weighbridges and two weighbridges for weighing clinical waste have been installed at the entrance and/or exit of the site. In parallel, eight other weighbridges have been equipped with the interactive weighing equipment. Each weighbridge is connected to an access control terminal with IP communication which manages the data using the Quantum software developed by the TRADIM Company.

All the Smédar sites have benefitted from the deployment of the new equipment, including the VESTA Eco-Centre in Grand-Quevilly (dedicated to protection of the environment) where the majority of the new equipment is installed. Smédar also has two green waste composting installations and a wood sorting installation. Five MRF's (for towns a long way from the treatment sites) have also been equipped, or benefit from the weighbridges at other installations, depending on their geographical proximity.





## The collection truck driver - the key player in the system

The principle is simple and quick. All collection truck drivers identify themselves by presenting their badge card to the weighing terminal allowing them access to the site. The terminal displays a selection of different types of wastes and the driver is prompted to make the correct selection using the touch screen. The vehicle weight is taken and the terminal dispenses a weight ticket. Should there be any query the driver may also call the weighbridge office using the terminal interphone.

Using this interactive system the drivers gain time and avoid any input errors with an average weighing completed in less than seven seconds.

Clinical waste is delivered in trays equipped with an RFID tag. These are identified and weighed at the entrance and tracked until they are re-weighed at the exit weighbridge. The weighbridges are connected to a weighing terminal with Ethernet IP and hand-held PDA for scanning and recording the trays.

Precia-Molen also installed and connected radioactivity measurement units to the weighing terminals. When a driver presents his badge, the incoming weight is associated with the measured radioactivity value. If the threshold is exceeded an alarm is triggered and the vehicle is then placed in an isolation zone for a repeat

measurement. If this is still positive the software allows the production of a slip which includes all the monitored information.

## Reorganised "Weighing" activity

Through the new Precia-Molen system all Smédar sites are now interconnected which provides centralised, optimised weighing data processing times on the VESTA Eco-Centre servers. Currently customers are invoiced in a 15 day time frame where previously it took two months. Real time processing is also possible but not applied as the authority currently retains data verification by the Management Control department.

The new system has allowed complete reorganisation of the "weighing" activity. As the terminal allows the barriers or gate to be opened by the driver's badge, the presence of a receptionist is no longer necessary. Freed from time consuming input operations staff can undertake other activities such as loading and unloading waste, cleaning sites etc.

This large scale project required wide expertise, not only in weighing technology, but in civil engineering, network cabling, communication and software. Supported by partner's expert in their field, such as TRADIM, Precia-Molen mastered all the technical and strategic expertise required for the installation.



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# The Metso EtaPreShred

**Metso Recycling specializes in the design and manufacture of heavy-duty shredding equipment for waste and recyclable material. With 60 installations within the United Kingdom and over 600 installations worldwide, Metso Recycling is one of the world's leading suppliers of shredders to customers within waste-to-energy, incineration and recycling sectors.**

The Metso EtaPreShred is designed to effectively and reliably reduce the size of all materials. The patented knife design and open cutting table allows sand and gravel to pass through allowing the wear rate to be kept to a minimum. Bi-directional shredding results in a consistent flow of shredded material and with hydrostatic drives, customers benefit from equal speed and torque improving shredding capability and capacity. Each shredder operates in variable speeds and shred asynchronously in both directions reducing the number of blockages and downtime effectively kept to a minimum. The EtaPreShred is available in both mobile and static units covering a wide range of capacities and variety of shredding performances. With these distinctive advantages, the Metso range of shredders provide outstanding performance when dealing with mixed and challenging materials; qualities that are particularly noticeable within the range of pre-shredders.

## **Metso EtaFineShred**

The Metso EtaFineShred consists of two counter rotating shafts to reduce pre-shredded and sorted material for customers within the waste and recycling industry looking to produce a high grade SRF/RDF. The EtaFineShred operates on the same hydrostatic design as that of the EtaPreShred consisting of a variable pump with power control, an integrated feed pump and a hydraulic motor mounted on each shaft. The EtaFineShred can form part of a new installation, existing line or standalone unit. The positioning of the shafts allows for a self feeding process eliminating the need for a pusher. Another key feature is the unique housing which can be spilt hydraulically allowing full access to the cutting knives allowing for easy access during maintenance and ensuring downtime is kept to a minimum. Due to the patented shaft design, cutting technology and variable screen openings, the EtaFineShred is able to deliver a homogenous output quality down to 8mm.

## **Metso Recycling supply latest waste shredding technology to UK-based Stonegrave Aggregates Ltd**

During the 4th quarter of 2012 Stonegrave Aggregates Limited took delivery of the latest waste shredding technology supplied by Metso Recycling. The delivery consisted of a Metso EtaPreShred 4000M-10 and the Metso EtaFineShred 6500, installed at the company's waste treatment facility at Aycliffe Quarry, Darlington.





The Metso EtaPreShred 4000M-10 is placed at the front of the existing waste sorting line, to process waste with a product output size of 90 % < 200 mm. The pre-shredded material passes through various stages of separation and sorting to recover recyclable materials and remove fines. The remaining material is fed into the Metso EtaFineShred 6500 to produce SRF.

The Metso EtaFineShred is placed at the end of the line and processes waste from the Metso EtaPreShred at a material output size of 40mm.



"Since the early 90's we have run several Metso LT crushers for the production of limestone and recycled aggregates in operation at Aycliffe Quarry. When we were looking for waste shredders, we trusted the high Metso quality and advantages of the new technology. Knowing that the shredders are optimally aligned, providing a continuous high output quality," confirms Bruce Whitley, Operations Director, Stonegrave Aggregates Ltd.



Stonegrave Aggregates Limited now focuses on recycled aggregates at Aycliffe Quarry, for use in road construction, earthworks, demolition projects and civil engineering applications. The company also provides complete waste management service, including the recovery and disposal of many types of waste, such as mixed industrial waste and construction waste. Visit: [www.johnwade.co.uk](http://www.johnwade.co.uk)

# Warwick Ward supply a Tana Shark 440DT Shredder to Robert Hopkins Environmental Services



**Based in West Bromwich, Birmingham Robert Hopkins Environmental Services (RHES) are the UK's leading environmentally friendly waste management service provider, specialising in the collection and disposal of all waste. With their wealth of experience they have acquired the skills and technical competence to**

**provide these services throughout the whole of the UK.**

Over the years the company has built up an impeccable reputation, and have developed good working relationships with their extensive customer base, which includes working with a spectrum of clients from 'blue chip' multinationals to small local businesses. With an ever expanding fleet of technically advanced vehicles, they are able to provide a swift and reliable service, for the collection and disposal of all waste streams throughout the UK.

At the West Bromwich operation the company operate a waste transfer and treatment station which receives all types of hazardous waste, specializing in the more difficult types of waste including the waste outside of WAC (Waste Acceptance Criteria). They deal with around 40,000 tonnes per annum of waste material including oily rag, paints, solvents, phenols and similar materials which they find disposal routes for.

## **A new addition to the fleet**

Recently their fleet took on a new addition in the form of a brand new Tana Shark 440DT Shredder which has been supplied by Warwick Ward of Barnsley, who is the sole UK distributor for the Tana brand.





Having unsuccessfully trialled a couple of machines that were on the market, Peter contacted Warwick Ward who assured them that the Tana Shark 440DT Shredder would easily process the 13-20tph of material that they required, shredding the material to the desired particle size between 30-100mm.

Peter Hopkins - MD of RHES, commented, "After a demonstration we decided that this single shaft machine was ideal as it is infinitely suitable for the processing of oily rags but it has settings for different kinds of materials that we can put through. We did consider a fixed machine but a tracked basically machine allows us to position it accordingly. The new machine has been put into service shredding plastic related material, feeding the material into adjacent skips to be transported as a fuel for a power plant so it can be used as 'waste to energy'. Basically it was a 'no brainer', the performance is superb!

### **The Tana Shark 440DT Shredder**

Ashley Ward - MD of Warwick Ward, commented, "The machine we have supplied to RHES is unique in its ability to create a certain fraction size particle to suit whatever application is desired. Throughput is determined by a number of factors and when you have moist content you will have a slower amount of tonnage per hour than you would with drier material, but even with the wetter material we are achieving 15-20tph with the screen. Obviously the adaptability of the machine is such that dependant on the material you can change the set-up, therefore if you want to pre-shred, you can increase the volume dramatically."

The Tana Shark 440DT Shredder has many features, the first one is the side opening door, meaning that any non-crushables can be easily and quickly removed from the machine without causing lengthy downtime, and at a sensible working height for the operator.

Additionally, the rotor screens can be changed and it is easy to service, adjust or change the knives and counter knives with no long downtime in the shredding process. The design of the Tana Powerpack also allows for quick maintenance with easy access to engine service points. Accessibility also means better work safety.

It can be supplied as a semi-trailer, on tracks or as a static electric version and is a really versatile machine for both general waste, C&D, tyres and wood waste.

Ashley further commented, "It's a superb machine which features interchangeable rotor screens capable of producing a particle size as small as 40mm in one pass and dual life reversible rotor knife and counter knife tools. You can also adjust the fragment size without any long interruptions to the shredding process. Using the right screen, will give you a higher quality end product and improved cost-efficiency."

"The standard bolt-on, reversible cutting knives and adjustable counter knives are suitable for all waste materials - you don't have to change knives just because you change the waste fraction being shredded. It is also worth noting that the unique design of the knives improves fuel efficiency compared to other traditional knife setups when shredding waste."



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## Boomeco Ltd Install Tracked IQR FlexHammer at Avonmouth

**During 2013 Boomeco Ltd carried out extensive trials of different shredding machines in order to evaluate the most cost effective way to process their 80'000T/yr capacity at their Avonmouth depot.**

Paul Caldwell of IQR Systems AB was invited to demo their mobile Model 1800 FlexHammer™ which in one pass can achieve a final product size and cope with the steel contamination. Oliver Latter Managing Director of Boomeco Ltd stipulated that the specification must have minimal fines, maintain an average throughput of 40T/hr it and must also produce a uniform product size in one pass without the need of pre-shredding.

"During the trial we regularly took samples which were analysed in our laboratory to ensure they met our specification, after some simple adjustments we were processing at a rate and quality truly beyond our expectations, we not only achieved a higher throughput but the machine also handled the contamination we get in our wood with no bother, the steel was also very evenly fragged so we now get a better product from this also!" Commented Steve Downard - Production Manager - Boomeco Ltd

The Model 1800 FlexHammer™ is fitted with a Caterpillar V12 875Hp Diesel engine, is fitted with IQR FlexHammer™ mill, hydraulic reject door, over-band electro magnet, interchangeable screens, remote control, fire suppression and many other unique features.

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# Durable Roller Crusher

## Now fully controllable using PLC technology for remote monitoring

Glen Creston - 'Leaders in Size Reduction' have improved the design and function of their Roller Crusher.

It can be supplied with a new control box with PLC which allows remote monitoring and control of the crusher in process applications.

The largest single shaft unit is now 800mm long by 500mm wide internally and designed for crushing lump coal up to 250mm. High temperature versions are available for crushing power station ash at up to 250 degrees centigrade

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

This machine is particularly suitable for de-agglomeration of materials from sacks or silos, pre-crushing softer minerals and for granulating coarse lumpy, caked or compacted materials.

### OPERATING PRINCIPLE /CONSTRUCTION

The wear resistant steel crushing cams are mounted on the roller shaft in staggered positions, accurately spaced so that they pass between the crushing and stripping combs which are mounted laterally on opposite sides of the inner housing.

The roller Crusher Mill is only one machine from our range of laboratory and pilot scale/light industrial equipment.

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For preparation of larger laboratory samples or for light industrial applications, Glen Creston offers a range of machines that can cope with higher throughputs whilst still producing reasonable particle sizes.

Glen Creston also manufactures special machines for sample processing production needs. These machines are designed for processing anything from small samples to larger scale continuous flows for industrial applications.

For more information on Glen Creston products please contact enquiries@glencreston.com T.+44 (0) 208 545 9140  
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### Features include:

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- Parts easily removed for maintenance/repair

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



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## Want precision? - Why not try an Endecotts Test Sieve?

Endecotts Test Sieves are designed and manufactured to offer qualities that make them extremely precise and accurate whilst

offering good handling, nesting and strength. Endecotts sieves are used extensively in the agriculture industry for the analysis of grains, beans, lentils, rice and similar commodities.

Each sieve is individually made under the most stringent quality control procedures using only the finest materials. The wirecloth is checked at every stage of manufacture either by optical projection or highly sophisticated computer scanning techniques. The final inspection is a precision measurement of apertures, and sieve frame dimensions. Only when we are satisfied it meets our exacting standards do we give it an Endecotts Certificate of Conformity.

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**Inspected Test Sieves** - Each sieve is supplied with an Inspection Certificate stating separately the values for the average aperture in both the warp and weft directions of the wire cloth.

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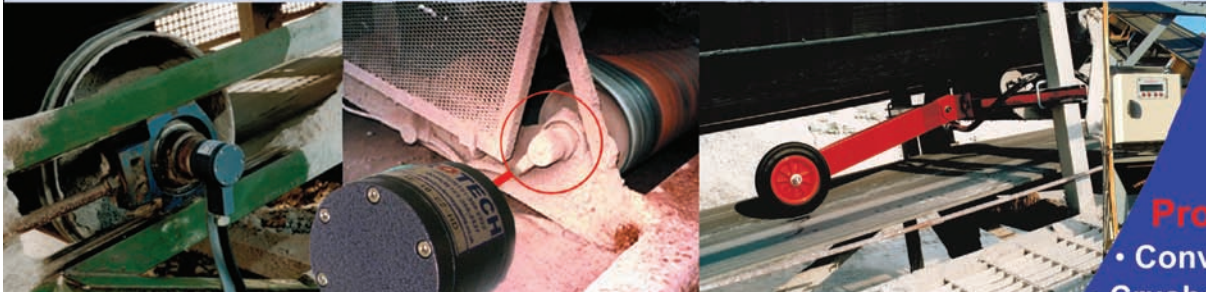
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# Rossi synchronizing asphalt batch mixing

**Rossi have developed innovative geared products for synchronising drives. One such application is used in mobile and fixed asphalt mixing plant. The synchronising drives are used in hot asphalt and bitumen batch mixing process. The batch mixing machine has two contra-rotating horizontally paddles, driven by a pair of Synchronised identical ratio Rossi bevel helical geared motors.**

In this application it is vital to have both paddles synchronised to prevent one paddle driving into the other or for one paddle to take more load than the other, to ensure a proper mix of product and prevent failure of the expensive mixing paddles.

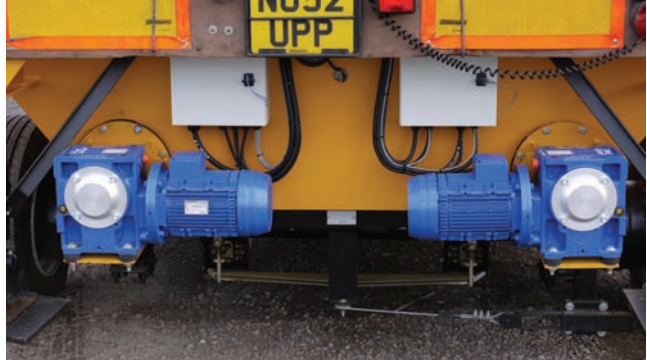
In previous designs of this application, the synchronisation was achieved with the addition of large open gears on the opposite side from the gearboxes. These gears ensured the paddle shafts were mechanically synchronised to avoid interference with one another. However, these gears needed lubrication and external guarding, which increases the cost of the machine and added additional maintenance cost to the monthly running of the plant. This environment is usually also one with significant dust and this can lead to contamination of the open gearing lubrication system, compromising service life.

Some machine designs also make use of a 1:1 right angle drive on the motor non drive end shaft with couplings and spacer shafts, to synchronise the two units through the non drive end of the motor, but this also adds additional maintenance, weight and significant cost to the offered product. With both these options spares availability has always been an issue in particular the 1:1 bevel unit as these need to be rated for the full motor torque developed and these are usually on long lead times. The older designs also used worm gearboxes which compared to the new bevel helical are very inefficient and raise the running cost of the plant.

The present design removes the need for the external open gears or special motor designs and couples the two bevel helical gearboxes directly using standard catalogue product. This is achieved by the gearboxes being supplied with a standard option external shaft, known as Rossi U02H or U02Hsin option. The geared units are supplied as a pair, and mounted with synchronizing shaft shafts end to end, allowing easy coupling of these shafts. The coupling only needs guarding and avoids the cost of gears and additional lubrication system.

The Rossi bevel helical cast iron single piece housing geared products are ideal for these applications. Their rigidity and strength allows for an extremely long service life in these arduous conditions. The modular design allows for many optional shaft and accessories to be supplied.

This synchronising design is now used by a number of worldwide asphalt plant manufacturers for a variety of sized batch mixers with powers typically from 18.5KW to 55 KW. And end users are now retrofitting their existing batch mixing equipment with Rossi bevel helical products, to benefit from this new design.



# Quarry to Lorry



**Brick making is an essential and key product for the house building industry.**

**With a low lifecycle carbon content it remains the premier cladding material for residential buildings in the UK with bricks also being used for repair, maintenance and improvement.**

## Market supply

With 90% of the UK market now supplied by three multinational companies, Michelmersh Brick Holding PLC (MBH) is now the only remaining major UK manufacturer, owning most of the UK and European premium manufacturing brands. Operating four brickworks at Telford, Loughborough, Danehill and Romsey, MBH employs 265 personnel and is the fourth largest manufacturer of bricks (67 million per annum by volume) in the UK, with a 5% share (AIM). It is also the market leader in specialist bricks for the premium segment and has developed a strong position in the repair, maintenance and improvement market selling via distributors.

## Major projects

MBH has been involved in several major projects for 'blue chip' clients, which included the restoration of St Pancras. Martin Warner - CEO, commented, "This was one of our most challenging projects to date. We were tasked with supplying approximately 750,000 hand-made, special sized, matching bricks. With brickwork over 100 years old our Charnwood site had to produce and supply new bricks which had the appearance of a weathered brick. This was successfully achieved with our bricks blending into the existing structure seamlessly."

Other high profile projects the company has been involved in include the Haberdashers Hall in Smithfield market and the supply of terracotta for the Michelin building in London.

MBH also supply a lot of product to 'top end' house building companies such as Berkeley Homes, Crest and Banner who purchase MBH product for 'kerb' appeal. This is reflected in the contrast of an average brick price in the UK at £230 per thousand against a MBH average price of around £350/£360.

## Current trends in brick manufacturing

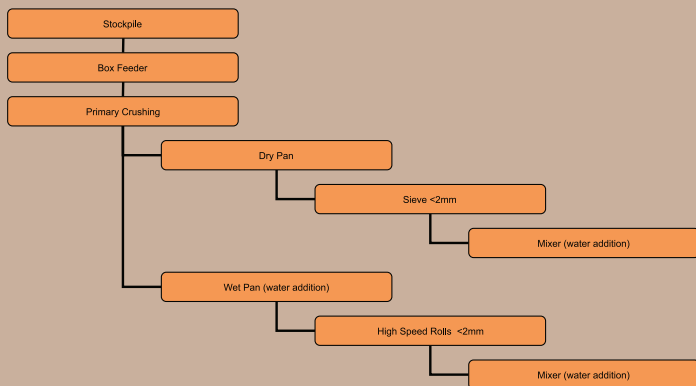
With most low-mid price point product currently in short supply, some lead times are currently over 20 weeks. Increased demand and forward order in Q3-4 in 2013 has seen continuation at this level for Q1 in 2014. With no price uplift since 2008, the industry now stands at less than two months 'normal' stock. To reinvest in further production to supply a projected increased demand any brick producer now has to see a significant price increase to facilitate the investment in new production facilities.

## 16 years of Brick Production

It's been a rollercoaster ride since the original purchase of Dunton Brothers and Michelmersh Brick and Tile back in 1997 that has seen the company expand, contract and recently expand again over a period of 16 years. In 1999 following the



## Clay preparation



initial start-up, the company purchased Charnwood Forest Brick, followed a year later with a further acquisition of Blockleys Brick and a 100 acre site which increased their overall production from 2 to 70 million bricks per annum.

Martin Warner, commented, "With an admission to trading on AIM we then made a competitive offer for Baggeridge Brick which unfortunately failed. Following this in 2009 we then launched Hathern Terra Cotta which was followed by a huge downturn in demand in the UK and led us to a restructuring of the business and consequently a large reduction in personnel."

Martin, continued, "In 2010, with two factories in Telford we made the decision to close one factory (capacity 30 million bricks). This was based on high production costs and the factory being in the wrong location. Subsequently we applied for and achieved planning consent on the 15 acre site for 185 units which we subsequently sold to Bovis in 2013."

Having closed the factory MBH production capacity then fell back to 2005 levels. Following this, Freshfield Lane Brickworks Ltd was acquired in 2010 and last year the decision was made to close the original Dunton site, all a reflection of the industry at the time!

Martin commented further, "What has set MBH apart from the other suppliers is that we supply a wide and varied premium

product. As a market leading RMI Terra Cotta business we have invested in a robust distribution policy and maintain strong distribution partners with broad customer bases. We have in difficult times held and increased market share, are well invested and were the first UK manufacturer to offer BIM data specifiers."

## The Freshfield Lane operation

Located on the outskirts of Danehill, near Haywards Heath, East Sussex the Freshfield Lane operation produces a wide selection of clamp-fired stock facing bricks.

The HUB team went to view the operation and observe the equipment involved in the brick making process.

The key stages of the brick making process are:

- Clay extraction and stockpiling
- Clay preparation
  - Crushing and grinding
  - Mixing and tempering
- Shaping and forming
  - Soft Mud
  - Extrusion
- Drying
  - Intermittent or continuous
- Firing
  - Intermittent or continuous
- Packaging
- Distribution



MBH operates a managed clay quarry at each manufacturing site. The adjacent quarry at Freshfield Lane contains differing seams of Wheeldon clay (100 million years old) where approximately 40-50,000 tonnes are extracted once a year by contractors in the summer months providing enough clay for a year's production (3 tonnes of clay to make a 1000 bricks).

Extracted clay is then stored in stockpiles close to the factory, each stockpile formed by building up layers of clay around half a metre thick. These finished stockpiles can vary in size but can be several metres in size; with a 12 month stockpile for a 30 million brick factory being around 45,000m<sup>3</sup>. Weathering takes place on the edges of the pile which helps to break up large lumps. Different clays may also be bought in and stockpiled from other quarries to extend the manufacturing product range.

### **The production process**

Selected material (dictated by the current recipe) is loaded into the box feeder by loading shovel and the clay is then fed into the primary crusher along with a separate feed of crushed coke. Material is then ground and dispatched by conveyor passing under metal detectors (to remove any foreign bodies from the flow) and conveyed to the mixing plant. Here material is delivered to the wet pan floor, where a 14 and 12 ton rollers grind the mix through the perforations,

dropping out the underside onto a feed conveyor belt to the high speed rollers where it is further reduced in size and delivered to the mixer where water is added to achieve the 23%-25% soft mud consistency.

Material is then delivered to the automated brick press and mould boxes where the wet bricks are formed. Freshly made wet bricks shrink during the later drying and firing processes with shrinkage as big as 15%, therefore the bricks are made bigger to accommodate this. The wet bricks are then racked and palletted and moved to the adjacent drying kilns. With wet bricks containing up to 25% water it is essential that this is reduced to less than 2% before the firing process starts. The majority of clay shrinkage happens during drying and to avoid cracking and distortion this process is closely controlled.

At the Freshfield Lane operation the production team ensure that the temperature and humidity of the drying kilns is controlled, enabling the bricks to be dried over a cycle which can take up to 3 days. At the start of the drying process the temperature will be low and humidity high; this is adjusted through the cycle to finish with high humidity and low temperature. Dryers are intermittent or continuous and use natural gas or waste heat.



Dried bricks are then delivered by loader to the firing areas where each brick is hand stacked to form huge kilns of approximately one million bricks. As the stack is constructed firing holes are built into the stack at the base at regular points. The bricks must be fired or baked at high temperature to achieve strength and durability. These kilns can be either continuous or intermittent with the bricks fired, or baked at high temperature to achieve strength and durability. Depending on the clay type this ranges from 950°C to 1100°C with the temperature and atmosphere in the kiln affecting the finished fired brick colour. Generally a red clay with rich atmosphere colour runs from orange to red, plum, purple or brown with rising temperature. A low air atmosphere gives multis and blues.

When the process is complete the huge stacks of bricks are then dismantled and moved by loader to the baling area. Here they are hand sorted and classified by eye depending on colour and finish, with any sub-standard bricks removed. Customers are also allowed to become involved in this selection and choose which bricks suit their needs best. Pallets are then built up and then moved by loader to the appropriate bay in the stockyard for later distribution.

With approximately 70 people working on-site it is obvious that the operation at Freshfield Lane is very labour intensive

after the dried bricks are delivered to the kiln building area. It's a constant process with a stack of one million brick taking three weeks to build, fire up and then dismantle, sort and put into stock.

### The future

With increasing market demand MBH made the decision to raise £10 million (£9.6m) through share placing. This will allow the company to make a small investment of £2.5 million which will increase brick production by 20% at Freshfield Lane; this will be complete by February 2015.

Martin Warner, commented, " The industry dynamics are changing fundamentally and we now have the building blocks in place to see the fruits of the hard work our team has put in over many years. We have exciting initiatives in place for 2014 and look forward to seeing what the future will bring."

 **Freshfield Lane**  
MICHELMERSH Brick Holdings PLC

 **MICHELMERSH**  
Brick Holdings PLC





# **Advanced Spiral Technology's TruHelix® - Flight Forming Technology Lifts the cloak on an old 'Black Art'**

**Until the advent of Advanced Spiral Technology's TruHelix® Flight Forming System helical screw "pitch" dependent dies in various forming machines primarily formed flights. The accuracy and consistency of the helical form was largely a function of the die pitches, the experience of the press operator and the accuracy of the cut annulus from which the helix was formed.**

All of this cloaked the Black Art that was "Flight Forming".

Advanced Spiral Technology's TruHelix™ Flight Forming System has lifted the cloak by;

1. Eliminating any and all of the constraints and limitations associated with the "Black Art" of sectional screw flight manufacture.
2. Revolutionized the process so that no experience is necessary. You will be able to consistently produce accurate sectional screw flights with the best quality in the world at efficiency rates 2 to 8 times better than any other system.
3. Being CE approved and has an EC certificate of conformity - it is the only Flight Forming System that incorporates guarding to protect the operator.

With multiple systems already installed, or scheduled for installation in Australia, Brazil, Denmark, France, Italy, South Africa, South Korea and the USA. Advanced Spiral Technology's TruHelix™ Flight Forming Technology is quickly establishing itself as the most advantageous and easy to use Sectional Screw Flight manufacturing system in the world.

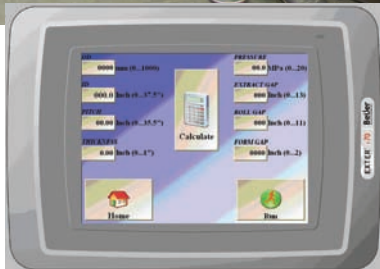
Companies that once purchased their sectional screw flight requirements from a so called expert manufacturer are now realizing the savings and flow on benefits that manufacturing themselves, in-house, can provide. Plus they produce a far superior product, which further saves them time and money.

If an OEM company regularly purchases sectional screw flights from a sub supplier then they should possibly consider investing in one of Advanced Spiral Technology's TruHelix™ Flight Forming System's and improving their bottom line.

How does Advanced Spiral Technology Compare with the old 'Black Art' method of manufacture?

AST's revolutionary TruHelix™ system is fully adjustable with interchangeable Form Tools that can be utilised for both Right Hand and Left Hand forming.

Special durable design virtually eliminates wear and maintenance. ►



Whereas the old style Black Art utilises restrictive pitch dependent forming dies that require numerous sets of Right Hand tools and the equivalent sets of

Left Hand tools. Constantly wears and require regular maintenance.

The many benefits of AST's TruHelix™ technology means that it requires a great deal less tool sets, and yet can be set to cover every conceivable flight combination perfectly.

Unlike with the bulky pitch dependent dies AST's TruHelix™ technology requires minimal storage space.

Virtually no maintenance is needed and minimal experience necessary to set up and run.

All the TruHelix™ Flight Forming machines utilises a PLC that runs the Machine Setup Programme. The Machine Setup Programme calculates and controls all the forming constraints. It sets the machine's forming parameters and pressure, specific to the flight combination, to ensure uniform indexing and identical pressing of every helix consistently.

Whereas, the old 'Black Art' method relies solely on the operator's experience, attitude and attention to detail to achieve an adequate result. Lack of experience can result in an inferior product. If an operator is not giving the operation his full attention it can show in the finished product.

The benefits of the TruHelix™ Flight Forming technology are;

- Ensured consistently as every flight is produced identically.
- Eliminates any need for reliance on operator input or experience.
- The TruHelix™ Flight Blank Designer program accurately calculates and draws the flight blank development, regardless of the combination or complexity.
- Whereas the 'Black Art' - Refer to the 'book of sizes', take an educated guess, try CAD program developments

regardless of the technique the confidence in obtaining an accurate result first time is low so trials are needed to ultimately achieve an acceptable, but not always accurate, outcome.

Here again TruHelix™ Flight Blank Programme has many benefits in that it:

- Correct and accurate flights first time every time with no material wastage.
- No expensive non-production time lost due to trials.
- And importantly no experience required while at the same time producing perfect results consistently.
- In order to produce top quality products TruHelix™ will consistently form the flight blanks into a finished flight without defamation which provides a perfect fit on the centre tube and perfect matching of the flight ends every time.
- Again the old 'Black Art' is often deforming which then requires multiple runs and several reworks by the 'expert' operator to at least achieve a satisfactory result.
- Fit on the centre tube and matching at the flight ends is often compromised and material and time is wasted.
- The benefits of TruHelix™ Flight Forming are that you can consistently achieve a pure helical shape every time.
- Fitting is extremely cheap and easy which saves time and money for you and/or your customer.
- TruHelix™ requires no reworks or manipulation and again no experience is required.

With regards to the efficiency of the TruHelix™ Forming System the TruHelix™ Machine Configuration Tool (Virtual Tool Setter) incorporates a scientific calculation of the flight material's proportional limits by utilising Yield Stress and Young's Modulus to correctly predict the best tool set and then provide a machine/tool set up that will form the flight very accurately in the first pass. The flight fit adjustment feature of the programme can easily accommodate any variations in material characteristics. All standard materials are pre-programmed and new or exotic materials can be easily added at any time in the future.

Remember the Black Art method where you have to take an educated guess and then keep resetting, manipulating and reworking until you achieve a result that resembles something satisfactory. This is now a thing of the past.

With regards to the all-important issue of health and safety TruHelix™ is CE approved and EC certificate of conformity.

Also, TruHelix™ is the only Flight Forming System that incorporates guarding to protect the operator.

Compared with the old equipment required with Black Art machines that shouts Danger! Danger! Danger!

The safety aspect of TruHelix™ has not been overlooked as people are always our most precious asset. So the TruHelix™ machines are all;

- Approved to some of the most strict safety regulations in the world.
- Fully guarded to protect the operator.

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# Brand new Dunlop

**Netherlands-based Dunlop Conveyor Belting (Fenner Dunlop BV) have been forced to re-double their efforts to make their belts even more difficult for others to create low quality imitations. An increasing number of cases are coming to light where end-users have mistakenly purchased what they believed to be genuine "Made in Holland" conveyor belts, only to find out to their cost that they are not genuine at all.**

Dunlop is understandably proud of their 99.99% quality success ratio. "Complaints really are a very rare occurrence," says application engineering manager Sytze Brouwers. "This enables us to investigate any complaint that we do receive very thoroughly and what we invariably find is that the problem 'Dunlop' belt has been made by someone else using the Dunlop name".

"It is a growing problem," explains sales & marketing director Andries Smilda. "The Dunlop brand has always been associated with quality and I think that it is fair to say that the belts we manufacture in our factory here in The Netherlands are widely seen as being the world benchmark for quality and extended operational lifetime. The problem is that a number of organisations around the world obtained localised rights to the Dunlop name and the logo when the British-based Dunlop company was broken up and sold off many years ago".

This fact is certainly a very difficult issue because a number of companies based in Africa, Asia and South America are legally entitled to use the Dunlop name despite having no connection with Fenner Dunlop whatsoever. "Strictly speaking, they should not be using the Dunlop brand name when exporting outside of their own continent but it is almost impossible for us to control" added Smilda. "Fortunately what we can control is the quality of our products, which are head and shoulders above any would-be imitator in every respect".

## **Tests, tests and more tests**

Using their extensive laboratory testing facilities, Dunlop Conveyor Belting go to great lengths to not only make sure that their own belts exceed international standards but also to see how their competitors perform against those same standards. "We have a great network of loyal customers and distributors so we have a ready supply of competitor belting to test and compare" says Smilda. "Some performance characteristics such as abrasion resistance directly determine the working life of the belt. In other words, the true test of value for money, but for properties such as fire resistance we are talking about very serious safety issues. Many of the so-called fire resistant belts we test actually burn like paper".

## **New branding**

Managing Director Edwin Have believes that the best form of defence is attack. Having invested millions in a new, state-of-the-art steelcord production line, expanded production capacity and the latest laboratory equipment for testing everything from extreme cold to ozone plus their own service network in Europe, Africa and the Middle-East, Dunlop have applied the same approach to overcoming the threat of poor quality imitations. ►





Although they will not disclose the precise amounts involved, Dunlop have made a further "substantial investment" in hi-tech water jet cutting machinery to create rubber branding (usually bright yellow) and the statement "MADE IN HOLLAND" that is embedded in the surface of the belt. This has been a natural follow-on to the introduction of similarly bold branding on every form of packaging. "If the belt and the packaging does not say "Dunlop, Made in Holland" then it almost certainly is not the real thing" says Have.

### Identity Theft

Dunlop is also the victim of a practice that virtually amounts to identity theft. An organisation in India (as yet unidentified) has created a website using the Dunlop Conveyor Belting name and has even copied text extracts from Dunlop's own website to create the illusion that they are Dunlop's official Indian operation. This enables them to attract internet search enquiries from would-be Dunlop customers who innocently believe that they are buying genuine Dunlop quality at lower prices. Edwin Have says that it is almost impossible to deal with this kind of fraudulent practice. "Even if you manage to have one website closed down they will quickly create another. This is why improving the branding of our products is so important. It is a never-ending battle".

### Price war

Conveyor belt manufacturing has always been a highly competitive industry but in recent years the large scale 'dumping' of belting, primarily from Asia and often of a very dubious quality has been taking place on an unprecedented scale. One of the problems seems to lie with the fact that, at first glance, industrial conveyor belts all look very similar - big long lengths of thick black rubber!

According to Dunlop, it is almost impossible for the untrained eye to tell if a conveyor belt is of the required quality and specification just by visual examination. For example, a belt that has thinner covers than they are claimed to be can quite significantly reduce the selling price. Sadly, in a great many cases, the labeling and certification will appear to be totally

the correct specification. Conveyor belt users who believe that they have saved money by buying a belt at a low price per meter are invariably paying a much higher cost in the longer term because the belts wear out prematurely and stretch and tear much more easily than they should do.

Dunlop say that 80% of the cost of making a belt is in the raw materials. For major buyers like them, worldwide prices for compound ingredients are very similar so if the quality of the raw materials is virtually equal there could never be a massive price difference. The labour cost aspect only represents around 13% of the production cost. The real key, they maintain, is what goes into the rubber compound.

Apart from using lower quality materials in the first place, the single most effective way for a manufacturer to reduce costs is to use calcium carbonate (chalk) to bulk up the volume (thereby reducing the cost) of the rubber compound mix. This has a seriously detrimental effect on the abrasion resistance of the rubber and its overall mechanical performance.

### Getting what you pay for

Regardless of the supplier, Dunlop's advice to all conveyor belt buyers is never to assume that the delivered belt is precisely what was ordered. A few basic checks should be carried out before fitting by inspecting the top and bottom surfaces of the belt to see if the manufacturers branding can be seen. Measuring the thickness of the belt using a micrometer is also recommended. Especially where fire resistant belting is involved, for even greater peace of mind it is often a good idea to order an extra meter of belt so that it can be used for testing by an accredited testing authority or laboratory.

If the buyer is at all suspicious then they should contact the original manufacturer. In Dunlop's case, they will either test a sample for authenticity and compliance or, wherever practical, send an expert to the site. The old adage "You only get what you pay for" certainly seems to apply to the conveyor belt industry!



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