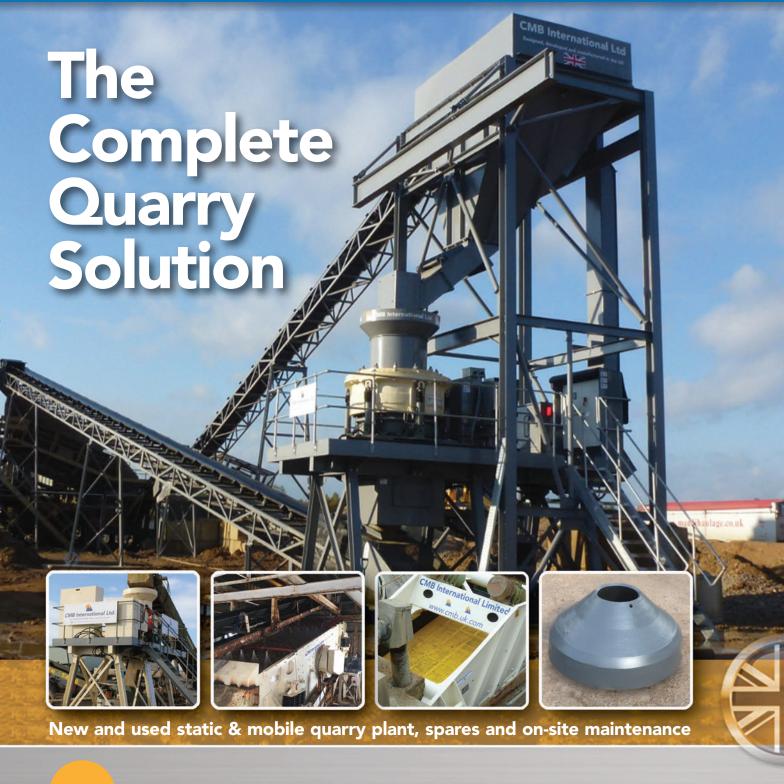
Global News & Information on the Quarrying, Recycling & Bulk Materials Handling Industries

November / December 2021 Issue 71



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# ROKBAK



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# 5 ways to guarantee hauler performance in winter



The Rokbak RA30 and RA40 are robust machines that can be relied upon to operate effectively and efficiently in cold weather - slippery surfaces and icy slopes are not a problem for these 'solid as a rock' articulated haulers. However, their performance is not down to quality design and build alone, so here are five maintenance tips to help maximise their uptime, productivity and safety during the winter.

# **Feature story**



# 1. Use Factory-Approved Parts

When the weather is cold, it's more important than ever to equip haulers with the right parts. A reliable starter motor, for example, ensures haulers fire up without problems even in low temperatures. All Rokbak Factory-Approved Parts have been designed and engineered precisely to maintain high performance and prevent unexpected downtime.

# 2. Select the right machine specification

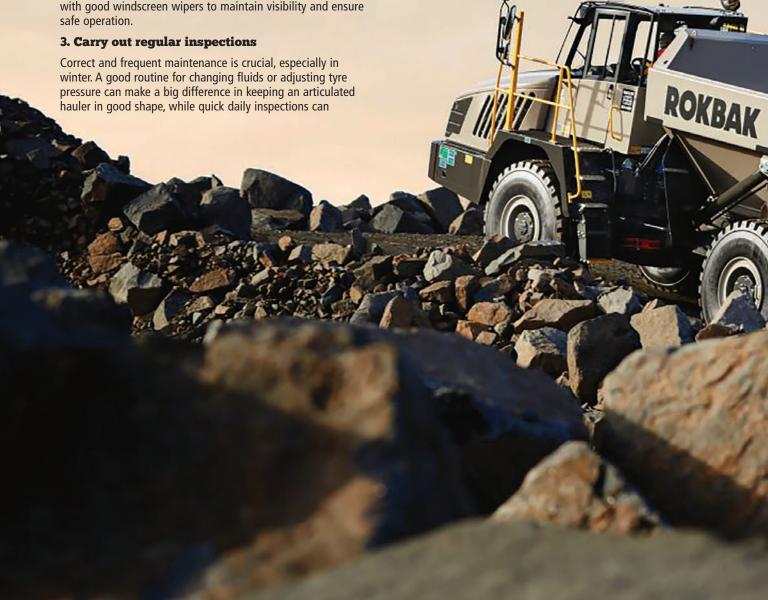
If operating for prolonged periods of time in extremely low temperatures, options such as fluid heaters will make the hauler's operation much more efficient. In winter, heavy rain and snow are also likely, so the hauler should be equipped with good windscreen wipers to maintain visibility and ensure safe operation.



prevent accidental wear and tear. The Rokbak global dealer network offers dedicated on-site maintenance and support services and a pre-winter inspection is ideal for getting the new season off to a productive and profitable start.

# 4. Remove any dirt or salt

Dirt or mud on a hauler can freeze overnight in winter, becoming difficult to remove and potentially damaging to the machine. Salt and other products on roads after snow can also contaminate systems and cause erosion. A daily clean will protect the body and components of the hauler leading to a longer service life and lower repair costs.



# **Feature story**



# 5. Correctly store the machine

If a hauler is not being used during winter, correct storage according to the machine literature will ensure it stays in good condition and be ready to work again in the spring. For example, the tires should be blocked up and protected from the elements, while batteries should be kept away from extreme temperatures. If possible, the machine should be started up on a regular basis and put through a set of basic movements to keep it operational.

"We have many customers operating in cold climates and are ready to help them with specification or maintenance advice to keep their machines ready to work and earn. Performance, productivity and reliability are central to the Rokbak brand and we are committed to ensuring all customers experience



these benefits, whatever challenges they face," said Thomas Schmitt, Rokbak's Customer Support Manager for Europe,

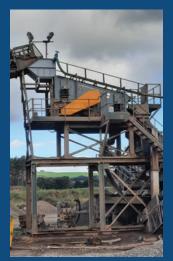


# CMB International help Angle Park Sand & Gravel increase their processing capabilities

Based close to Ladybank, Cupar, in the Howe of Fife, Angle Park Sand & Gravel Ltd (APSG) is an independent business that has been producing high quality sand and aggregates for the construction industry, precast manufacturing, asphalt production, sports surfaces and drainage works since 1961.

Incorporated in 1961 by founder Frank Cuthbert to produce and supply sand and gravel supplies for the construction of the new town of Glenrothes; today the business is managed by Ian, his son Peter and daughter Kerry, representing the second and third generation who manage their two sand and gravel pits at Melville Gates and Mountcastle.

The adjacent Mountcastle site was acquired by APSG in 2012 with reserves of approximately 1.6 million tonnes of sand and gravel. Following the acquisition, the company installed a sand and gravel plant to produce a course concrete sand and four gravels.



Today, this third-generation family-run business pride themselves in supplying high-quality sands and aggregates to domestic and commercial markets throughout the central belt of Scotland.

Protecting the environment is also high on the list with APSG working continually to reinstate the prime agricultural land of the Howe of Fife with over 50,000 trees planted by the company.



Recently APSG completed the final upgrade of their wash plant by replacing an ageing screen with a bespoke wash screen which was again manufactured and supplied by CMB International





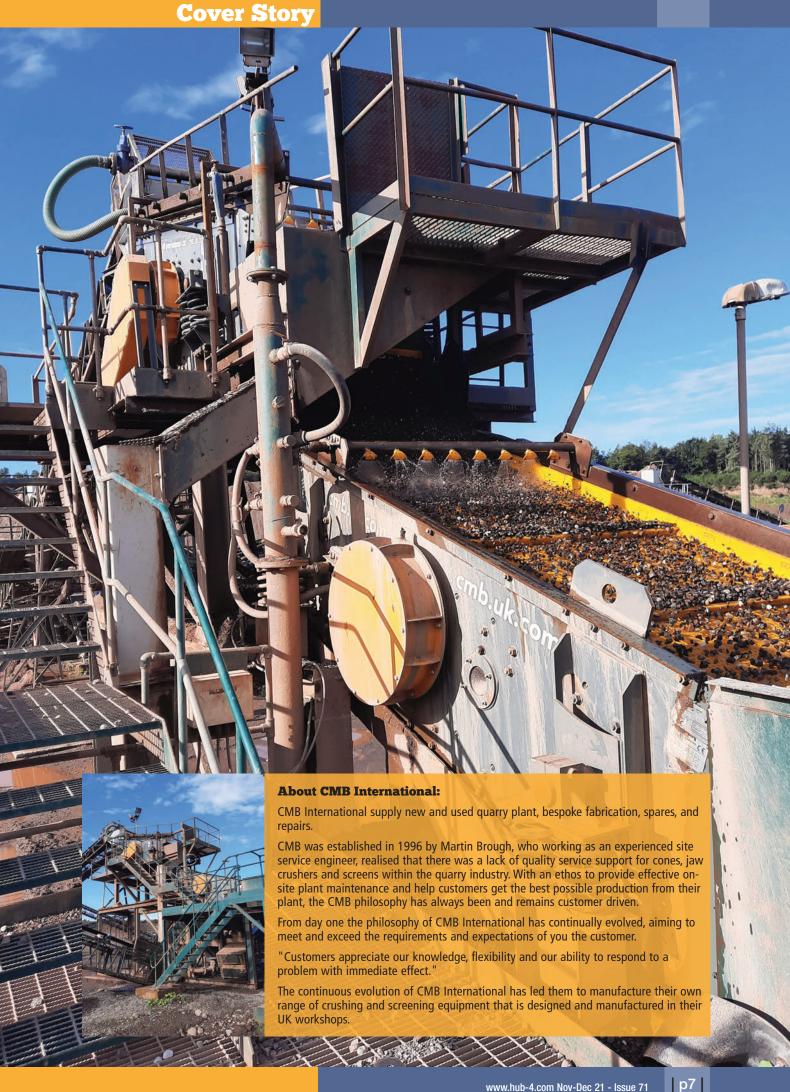
# Completing the upgrade of the wash plant:

Having previously supplied two screens — 1.5m x 6.1m double-deck (Feb 2019) and a 1.8m x 3.6m double-deck (June 2020) CMB completed the upgrade of the whole plant manufacturing and supplying a bespoke 1.5m wide x 3.6m long, double-deck screen. This screen came complete with Tema Isenmann - WS85 media and polyurethane fan sprays.

Peter Cuthbert – Director of APSG commented, "The replacement of this third screen was the last step to complete the upgrade of the wash plant. As CMB had replaced the first two it was an obvious decision based on past experiences to ask them to complete the upgrade."

The screen was duly installed by CMB engineers at the Mountcastle site and included new spring and motor mounts within the original framework. The whole project was completed and commissioned over a period of 2 days allowing the plant to resume production quickly.

Peter concluded, "CMB have looked after us from the start of the upgrade back in 2019. I could not fault the product or the installation of this screen. Their efficacy within H&S whilst working and supplying an installation in a prescribed time frame is unquestionable. I would highly recommend them without a doubt."





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# Welcome to issue 71

### Welcome to our last edition of 2021.

In this issue the team at Hub-4 present you with another bumper edition reporting on the latest news from the Quarrying, Recycling & Bulk Handling Industries, including a spotlight on Materials Handling.

Looking forward, next year is starting to look like it will be back to our normally busy schedule. In four issues the Hub-4 magazine with have extra circulation at several exhibitions — IFAT, Hillhead, RWM & bauma in October.

2022 also sees the return of our bi-ennial edition of our **MADE IN IRELAND** special which will be published in the November edition.

### **Onwards into 2022:**

If you're starting to look at marketing in 2022 our new media file with feature list can be found here, either PDF download or page flip version: https://hub-4.com/pages/advertise-with-us

Electronic advertising is also available on the website and on the weekly enewsletter which is distributed to our readers which is on-line here: https://hub-4.com/pages/newsletter

Our increasingly popular social media packages are also available across all our Twitter, Facebook & LinkedIn pages all of which can be linked with electronic web and e-newsletter advertising — why not enquire about our extremely competitive packages.

Finally, our first edition of 2022 will focus on **Aggregate Crushing & Screening**, and I welcome any editorial contributions for this issue.

It only remains to wish everyone, season's greetings and a happy new year...

# **John Edwards**

Editor

# **January/February 2022**

# Aggregate Crushing & Screening

A special focus on... Static & Mobile crushing, mobile screening, stockpilers,



Editorial copy deadline 12th January 2022 - Advert copy deadline 19th January 2022



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We will then review your application. The Hub magazine is available for overseas clients on a paid subscription at £115, for six issues, please email subscriptions@hub-4.com.



# The Molson Group show their future credentials

The Hub-4 team were recently invited to a VIP Open Day at their **Bristol Headquarters...** 

Located on an 11-acre site at Avonmouth, near Bristol the Molson Group was established in 2003 and currently stands as one of the largest suppliers of Japanese and Korean excavators in Europe.

Employing 240 staff, the group operate out of the Smoke Lane Industrial Estate where recently extensive redevelopment has taken place with the creation of a 1,950m<sup>2</sup> additional workshop creating an additional ten bays and a gantry crane. To maintain the level of legendary service the company are known for there are thirteen strategically positioned service locations with £8 million of spare parts.

Growth has been considerable, with the group set to post an annual turnover up to September 2021 of £251 million, which represents a massive growth on the last pre-covid year -2019.

Today the group offer a machine portfolio from their thirteen divisions which represent thirty-two leading OEM's, including specialist processing solutions for washed and crushed aggregates which effectively underlines the fact that they can provide a 360° single-source solution within the Quarrying. Recycling, Bulk Handling, Demolition, Construction, Ports, Scrap covering all requirements: backing all this up with eighty-four qualified factory-trained service technicians.



To add even more weight to their offering the group are currently in the process of establishing a unique service portal which will consolidate telematics from every machine (regardless of make) providing their clients with a daily update on their fleets and locations.

"I have been to hundreds of shows and open days around the world and the Molson Open Day must rank as one of the best shows I have been to, certainly in the UK, commented John Edwards, Editor - HUB-4. >



**Special feature** 

"The display of machines was staggering and comprehensive and include huge displays from industry leading names such as Hyundai, Sennebogen, Terex Finlay, Terex Ecotec, Rokbak, Kobelco and Hydrema. Also seen were newer additions to the portfolio from CBI, ProStack and AggReclaim.

"Alongside the machine line-up visitors were offered a guided tour of the Molson world-class facilities which included their technology centre and three guided tours to working satellite locations within the Quarrying, Waste Transfer and Waste Wood Processing industries. To be honest it was brilliant event, and I for one look forward to the next edition!" said John.

# Judging the market:

Within the middle of a rampant pandemic, the like of which has not been experienced since 1918 making a market judgement is almost akin to looking at a crystal ball! Very much like a conveyor belt everything is fine until the belt stops with subsequent results at both ends with production halted and demand in abeyance. Making a calculated judgement as to when the demands of the market will return has caused considerable head scratching for many companies, but the Molson Group have used the insight from their ERP portal to forecast when the 'bounce back' would occur and prepared accordingly. Robin Powell, Group Joint Managing Director takes up the story, "When calculating the level of industry demand post-covid we decided in the middle of covid to place some of the biggest orders that our manufacturers have ever received. This has given us the ability to offer machines this year when others were closing their order books.

We realised that we were in the middle of a 'perfect storm' due to Covid and Brexit and we found with people delaying purchasing decisions this would eventually transition into a period of a higher-than-average demand which is where we are now. Also, the fact that with people running their machines as normal who want to reduce their fleet age down coupled with larger investment within the infrastructure construction industry to counter the effects of covid we knew we had to be prepared."

Robin continued," There are three big trends — PCCA — post covid, post carbon and post analogue."

# **Examining the three big trends:**

**Post covid** – Molson see their construction industry customers changing from (in Greater London for example) high-rise office blocks, moving to regional distribution depots/ warehousing and similar infrastructure, therefore the type of machines required for projects are more akin to equipment that they supply.









70% of the machines currently being processed are electric. Additionally, staying ahead of the game Molson are actively looking at how they can store and manage hydrogen on the site.

With a continuous dialogue with their manufacturers and customers, Molson are continually reviewing what their market will look like in 10-years' time. This will be an ongoing process as Molson try to shape their customers' thinking and urge preparation for it now as it will be a massive change.

# Special feature

**Post analogue** – With the advent of e-commerce website and purchasing at the click of a button the new Molson Service Portal fits in perfectly. Without being cumbersome the functionality is clearly visible, and alongside a new parts website Molson are launching will provide them with the ability to monitor and react to situations, remotely at their convenience, in a well-mannered, uncomplicated way.

The portal is a presentation of information that will link into their parts website as well. A client looking at his machine(s) on the Molson Portal (which for example is not on a service contract), will note its status and if it is due a service then they will be able to click into that machine and order a service kit

Although Molson encourage their clients to invest in a service contract which will facilitate planned maintenance, subsequently eliminating downtime and including a comprehensive safety check at the same time.

Robin, continued," Business is quite brisk with
Molson Equipment, with the division picking up
considerable business in the Construction
sector with Molson Young Plant Sales
in Scotland equally busy.

We have consistent growth across all our divisions; Molson Washing is picking up well with the introduction of the innovative AggReclaim system and we have had contract wins on CDE for full scale washing plants. Molson Finlay is also doing well, as is Molson Green who are picking up several blue-chip contracts. Kobelco for instance now has 15% market share which compared with pre-covid is a massive leap forward!

More specifically, Molson Washing have just completed a contract in Tilbury docks and commissioned a AggReclaim recovery system for PJ Thory at Peterborough and Green has delivered a Sennebogen 870 to the Port of Tilbury."



Fleet dashboard



Individual machine



Individual machine parts

### Molson Group Service Portal:

Rich Payne – Business Intelligence Manager for the Molson Group explained to me how this works, "For example if you were running six machines all built by different manufacturers, in a site we would take the raw data (which would come from all the different manufacturers' telematic solutions) and transform it in to a standard format. The client can then customise individual machines identifying them by their own existing fleet numbers.



**Rokbak Dumptrucks** 

# **Special feature**









"Once logged in the first screen you have an overview of your fleet - total operating hours, number of machines, working hours, idle time, CO2 emissions, fuel usage for the selected day, from this you can compare with other days and view any trends. In addition to this each machine has three colour traffic light codes advising the status – green, amber and red.

"Another option allows you to select the whole fleet or an individual machine to view the same categorised data. Your fleet can also be categorised into groups - ex: excavators, wheeled loaders or even by site. All this data can then be viewed in map mode with an additional zoom function to view the machines at that site and again select an individual machine to view specific data. To make identification easier when a machine is added into the system an illustration of that machine can also be included allowing instant recognition by either image or fleet number. Clicking into a single unit gives you all the same information."



Rich confirmed, "An E-commerce site will also show all parts with numbers, exploded diagrams of every machine. You can find your fleet, access each individual machine, and view detailed catalogues relevant to every machine viewing all part numbers enabling ordering and delivery dates."

Anticipated to go live in Q2 2022, Molson are testing and evaluating the system over a 3-6-month window with selected companies operating in several sectors.

# **Self-Service Portal Features & Functions:**

John commented, "Having seen a demonstration of the new Molson Portal I can endorse that the demonstration shown to be by Rich was clear and easy to comprehend. A self-service portal is only as good as the information and features that are available. The information that will be available to Molson end-users is a subset of the knowledge base and tools that are available within the group to support the machine fleets. Content has been refined and curated for the end-user audience, as a result, the information, and tools that are presented through the Molson self-service portal are clear, easy to understand, and intuitive to use with little training.

# Terex Washing Systems launch M1700X at Ireland's CQMS

Terex Washing Systems launched its latest innovation—the enhanced M1700X Mobile Washing Screen—at CQMS, Ireland's Construction & Quarry Machinery Show, which took place from 10-11th September in Tullamore, Co. Offaly.

The M1700X is a redesign of the M1700 and improves the M Range<sup>™</sup> of mobile washing screens manufactured by Terex Washing Systems that can produce up to five products (three aggregates and two sands) in applications including; aggregates, recycling, industrial sands and mining. The M1700X was featured alongside the FM120 C-2G, which allows sand to be recovered when both machines are connected together.

Barry McMenamin, Business Line Director of Terex Washing Systems said, "The addition of the M1700X will enhance an already significant product range offered by Terex Washing Systems, meeting both market and customers' needs for mobile washing. Our team of engineers have worked closely with our customers to develop improvements to an already high performing machine, such as the new tracked rinser that features a redesigned high fluidisation wash box, increased standard features and improved washing efficiency."

# M1700X Highlights

The improved M1700X features a new integrated high fluidisation wash box to maximise deck efficiency, increase media wear life and have an adjustable spray system. It also boasts increased standard features, including a standard hydraulic raise and lower for quicker service access, standard hydraulic tensioning, and one-piece catchbox for easy machine reconfiguration.

Setting new standards in screen box technology, the M1700X has heavy duty bearing arrangement for long service life, higher levels of screening efficiency and throughput, increased serviceability and maintenance access as well as increased screen angle adjustment that is highly adaptable for feed





The model has also been redesigned with a focus on wet processing efficiency, with 16% increase in spray capacity across all decks, industry leading levels of catchbox sealing, innovative configurable catchbox outlets and configurable blending to maintain material specification.

Additionally, the M1700X is easily transported, has a quick set up time (typically 15 minutes), and has optional hybrid power available around the world.

Speaking on the CQMS show, Barry continued, "It was terrific to be back at a show, welcome customers to our stand and showcase the capability of our equipment and discuss our latest innovations. We were delighted by how well the M1700X was received and we look forward to building on the connections made at CQMS and discussing how our bespoke solutions can meet their specific needs."



# Certora Training - New name, same high standards, service and more ...



From 1 January 2022, the new name for industry leading training company, Mentor Training Solutions and qualifications business, Serac UK will combine to become Certora Training.

This change is a result of years of evolving from their roots as a straight-forward plant and access training company into a fully integrated training, assessment, qualifications, and management support business.

As market conditions and customer's demands are constantly and rapidly changing, the teams at Mentor Training Solutions and Serac realised that they had to realign their services, not only to meet the current changes but also create foundations for the future by investing extensively in their staff and the latest software and online systems to create a complete and seamless solution for their many customers.

# **One Call Training Service**

Merging into a single business will provide Mentor and Serac customers with a more streamlined and efficient training and qualifications provider with all the contacts and information contained within a single business and IT system rather than spread across two businesses.

As specialists in the extractives, waste recycling, utilities, facilities management, construction and services-based industries, Certora Training will inherit the customer service/quality training/value for money ethos for which Mentor Training Solutions and Serac are rightly renowned.

Building on this by offering more 'back office' support to their customers' busy training and development departments and to their growing band of customers looking for a one-call training service for all of their operational training requirements.

# It is still us...

The main message Mentor Training Solutions and Serac want to emphasize to their customers is, Certora Training is still us, with the same high standards, the same people, the same quality training, and qualifications but with a new identity and even more focused levels of customer service.

The new Certora website will be live in January with details of new courses, anticipated industry events and much more. For more information on Certora Training please contact 01246 386900.

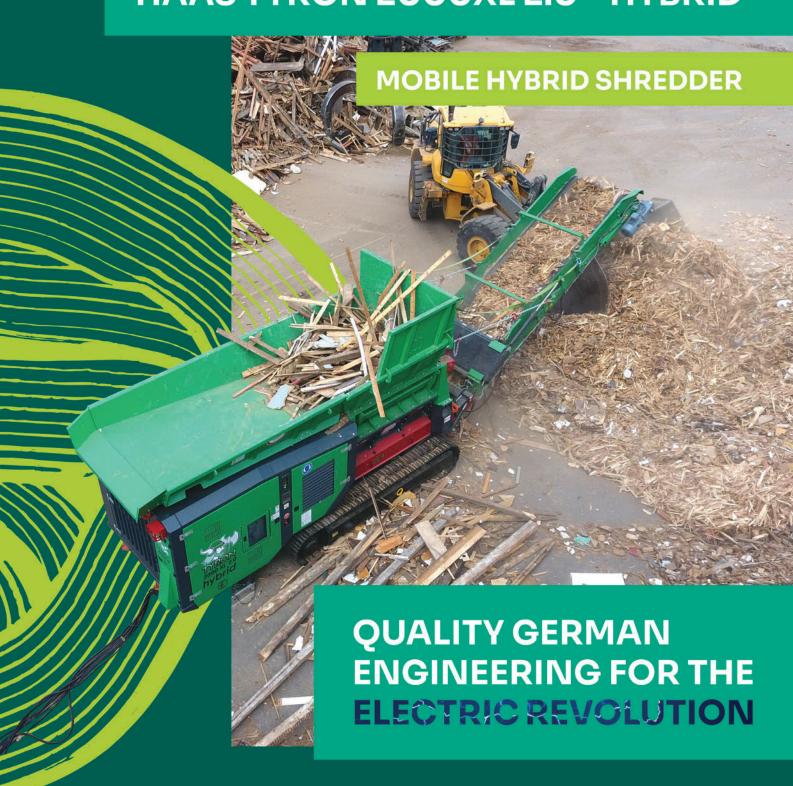
For further information contact Sophie Easdon of Mentor Training Solutions on 01246 386900 or email: sophie.easdon@mentortraining.co.uk





# ...Every step of the way





# News



# TDL Equipment awarded dealership for Promove Demolition range of attachments

Sheffield based TDL Equipment are delighted to announce that they are now officially a UK dealer for the tried and tested Promove Demolition range of attachments. TDL Equipment have supplied equipment into the UK construction, demolition, scrap, and waste sectors for over 20 years and are delighted to be adding the Promove Demolition range to their portfolio.

TDL Equipment are the UK Dealer for the ATLAS range of equipment including material handlers, excavators, road rail equipment and scrap attachments and have opted to bolster their range of equipment with the comprehensive Promove Demolition range.

Promove Demolition, an Italian brand originally founded in 1989 boast a healthy combination of experience and enthusiasm for top quality attachments. Promove Demolition have established an enviable reputation for quality across all sectors, recognised internationally thanks to their class leading manufacturing technology and state of the art production facilities whereby all major parts and components are manufactured in house using top certified quality steel.

TDL Equipment are pleased to be offering the excellent Hydraulic Breaker range, compatible with excavators ranging from Micro 0.6T up to 130T heavy duty excavators. The hydraulic breaker range has a proven pedigree worldwide, supported by innovative features such as the Smart Valve which stops unintentional blank firing, auto greasing systems

and comprehensive 'E-Breaker' telematics to optimise fleet management.

TDL Equipment will also supply the full Selector Grab range, which is available on 0.7-200T excavators, designed with a compact structure for enhanced material handling, paired with the range's large grab opening and high loading capacities. Supplementing the offering will be the Promove Scrap Shear range, perfect for the most demanding scrap yards across the UK, compatible with excavators from 2-85T.

The Promove Demolition range includes Multi-Processors, Fixed Pulverizers and Rotating Pulverizers compatible with machinery up to 50T. The demolition range is designed with the operator in mind and includes features including reversible blades, heavy duty and oversized pivot components and large jaw opening to optimise demolition productivity.

The official launch of the Promove range from TDL Equipment took place at the Lets Recycle Live event on 15th and 16th September, in which TDL took great delight in demonstrating attachments within the live demonstration with TDL Equipment's dedicated sales team on hand to field any questions.

TDL Equipment will offer full national sales, service, and parts support for the full range in the UK, supported by an experienced team who are happy to help. For further information, visit TDLEquipment.com or email sales@tdlequipment.com and they will be happy to answer any questions you may have on this new, exciting range.







# First of its kind-Diesel and AdBlue **Bucket Bundie for J A Jackson**

Established in 1967, J A Jackson Quarries & Recycling Ltd are a family run business who supply quarried and recycled aggregates. Providers of sustainable building materials, aggregates and ready-mix concrete, the company also provide domestic and commercial skip hire and have a fully licenced waste transfer station and facilities for inert tipping. J A Jackson operates a fleet of more than 20 tippers, artics, skip wagons and concrete mixers. The company's quarries in Preston, Leyland and Lancaster are all within easy reach of the region's motorway network making access and distribution as efficient and effective as possible.

J A Jackson have recently added the first combined Diesel / AdBlue Bucket Bundie Fuel Bowser to their fleet provided by manufacturers, Ace Plant.

Ace Plant, home of the 'Bundie Bowser' fuel storage range, are a plant hire and sales company based in Buckinghamshire who utilise their engineering roots to manufacture Fuel Storage Solutions and Dust Suppression equipment for hire and sale throughout the UK. Based on the same concept as the patented Bucket Bundie Fuel Bowser, Ace Plant's Bucket Bundie Store was seen shortlisted in the Institute of Quarrying's Excellence Awards in the knowledge and innovation category - a fantastic accolade for the 'Bundie Bowser' name.





Images courtesy of Alison Miller – JA Jackson.





Ace Plant have recently launched the first Bucket Bundie that is capable of carrying both Diesel and AdBlue at the same time. This capability can already be seen in Ace Plant's static, site tow and road tow ranges but has finally been made possible within the Bucket Bundie range.

A Jackson first found out about the Ace Plant Bucket Bundie Bowser after searching the internet about fuel bowsers. They liked the fact that the Bucket Bundie can be transported by existing site machinery without the need for a tractor. These units remove the need for lifting chains as well as the need for the operator to leave the safety of the machine's cab to attach any chains. It features a patented bucket loading system with special slots above the support legs that allow a wheel loader operator to easily pick up and move the bowser using the machine's front bucket. With the loader bucket crowded back, the Bucket Bundie is held securely for safe transport across rough ground – this combination works much better than a towed bowser which can be difficult to move and reverse particularly on rough terrain.

J A Jackson say that the Bucket Bundie will be a benefit to their business as the unit will result in "less risk of contamination and we no longer need to use the 5 gallon drums". In turn, this also makes refuelling a faster and safer processes with less risk of spillage.

The Bucket Bundie Bowser is available in three different capacities: 450L, 1000L & 2250L.

To find out more visit www.aceplant.co.uk or call 01908 562191.

# North Lincs Sand & Gravel increase their processing power with twin PowerX Equipment installations

Operating out of the Isle of Axholme, North Lincs Sand & Gravel (NLSG) is a wellestablished privately owned company that has grown to be one of the region's largest suppliers of aggregates, plant machinery and contracting services which operate out of their own quarries.

Having operated a silica sand quarry at Blaxton, Finningley, near Doncaster for many years NLSG have recently acquired a greenfield site which is situated almost opposite. This new site contains an estimated reserve of 3.5 million tons of sand and gravel.

To process this material NLSG have invested in two Terex Wash plants; a FM200C Sand Recovery Plant and an Aggresand <sup>™</sup> 165 Modular Wash Plant which have been supplied by UK dealer PowerX Equipment.

Richard Mills — MD of NLSG, took up the story, "We have invested in two plants, one to process the soft sand and a second larger plant which will process the gravel, all of which will be sold to local markets including tile factories, brick block making factories and mortar plants."

### **FM200C Sand Recovery Plant:**

To process the soft sand PowerX installed and commissioned a Fines Master 200C Sand Classification Plant including pumps, pipework, and electrics in the summer of 2021, which has been designed to process up to 200toh. All as-dup material is



delivered to the H12 feed hopper and conveyed by feed conveyor onto a 16 x 5 double-deck rinsing screen with modular support structure. Here the top deck acts as a protection deck removing any oversize rejects with the bottom deck providing the feed to the sand recovery unit.

This low maintenance unit combines a collection tank, centrifugal slurry pumps, twin G4 hydro cyclones and a 4.3 x 1.8m dewatering screen with spray bars mounted on a single chassis which recovers the required one grade of sand maintaining a maximum recovery of saleable material through the removal of silt, slimes, and clays below 75 $\mu$ m (200 mesh). All saleable material is then delivered to a radial sand stockpiling conveyor.



# Quarrying







The electric plant has been manufactured with a robust, easy to assemble steel construction, complete with galvanised walkways and handrails throughout to provide easy and safe access. The whole plant footprint sits on a concrete pad including driveway and access to the H12 feed hopper.

Richard, continued, "We have had a long and successful relationship with PowerX Equipment over the years and always found them very professional and very quick to respond. It made perfect sense to continue our relationship and invest in these two new plants. We cannot really fault them; they are always proactive which is perfect as we cannot let customers down!

# Aggresand™ 165 Modular Wash Plant:

This plant is currently being assembled on site and will be commissioned late November and provide NLSG with two grades of sand and a 10mm and 20mm aggregate.

The NLSG Terex® high performance AggreSand 165 modular wash plant combines aggregate washing and screening with sand processing on a modular chassis. It brings together tried and trusted Terex® Washing Systems components in an innovative modular design, setting itself apart from other washing systems in the marketplace. The plant includes an H12 feed hopper which delivers material to a feed conveyor and onto a 3-deck 16 x 5 screen box with modular support structure. This separates the two aggregates and delivers the sand to a Fines Master 200c Sand Classification Unit, with all materials being stockpiled by radial conveyors.

Richard added, "We chose the 165 because it can process a large tonnage which will enable us to keep up with the demand.

"Also, screening is through polyurethane mats which are considerably better and offer less maintenance. Unlike the first plant all the as-dug material in this instance will come off a Powerscreen Warrior 1200 tracked scalper which will feed material direct into the plant hopper."

This Powerscreen Warrior 1200 tracked scalper was originally supplied by PowerX Equipment and includes triple shaft technology which is unique to Powerscreen heavy-duty screens. This triple shaft design ensures that the 16 x 5 screen box is highly efficient while maintaining exceptional throughput productivity.

Luke Talbot — MD of PowerX Equipment, added, "This is our fourth plant installation for NLSG alongside the supply of various mobile crushing and screening machines. We have worked with NLSG for some considerable time and have always ensured that the investment they have made is operating efficiently, processing and providing saleable material."



For more information please visit: www.blue-group.com





In today's world there is more demand for the earth's natural resources than ever. For companies to succeed and grow, sustainability and the circular economy are a vital consideration in the business plan. As planning permissions for natural aggregates are taking longer to grant with escalating costs, and landfill space for construction materials once regarded as a waste is reducing so we have the perfect storm brewing between supply and demand.

Many companies in the aggregate supply chain are now considering and purchasing aggregate wash plants suitable for the processing of construction, demolition, and excavation waste to recover the valuable sand and aggregate from this material for reuse in construction. This is a very sustainable approach to the finite resource of construction sand and when done correctly can also add significant value to the materials produced from the wash plant.

An important consideration for washing aggregates is how the dirty water from the wash plant containing the silt and other contaminates from the washing process are to be dealt with. Lagoons are rarely an option today due to space constraints and the fact that the Environment Agency will want any water from the plant managed in a controlled and measurable way to guarantee no pollution.

The washing of recyclable aggregates is often regarded as relatively straight forward when a tried and tested process is followed. However, with such a variable input material the key to a successful washing operation is the water treatment plant



and ultimately what is produced from the silt fraction that has been washed and scrubbed out of the feed material.

# **Technologies available:**

There are several technologies currently available for receiving a thickened sludge from a water treatment plant, removing the solids from the water to produce a manageable cake, and returning the clean water back to the washing process. When deciding which of these to use consideration must be given to the initial capital cost versus operational costs, civils requirements, space available and ultimately what is going to be done with the silt cake that is produced at the end of the process.

# Quarrying







Most companies today need to produce the driest possible cake that can be stockpiled, transported, and potentially used as a product from the end of the washing process. To achieve this filter press technology offers the best solution to process a variable feed and produce the driest possible cake. Typically, the moisture content of the filter cake is below 25% moisture compared to 40% moisture from other alternative technologies. This guarantees the maximum return of water into the washing process and the lowest loss of water out of the process.

Filter presses are machines used to dewater slurry. They separate solids from the waste water or slurry and recover the water, which can be re-used in the processing cycle. Filter presses are used in a wide range of applications - aggregates washing, mining concentrate and tailings, recycling, concrete batching plants and virtually in any process where water/solid separation is involved.

Tyrone International work exclusively in the UK market with our Italian partner Fraccaroli & Balzan, who have been

designing and manufacturing industry leading filter presses for more than fifty years as one of the world leaders in this technology.

### A common misconception:

The filter press is basically constructed from a heavy-duty steel chassis carrying a series of recessed plates covered by a filtering medium (cloths and sometimes backing cloths). The plates are kept tightly closed by hydraulic rams creating a seal around the perimeter of the plates. A high-pressure slurry pump forces slurry into the empty chambers between the plates which have an inner cavity holding the solids, while the water drains through the clothes and is recovered for the process. It is a common misconception that the hydraulic rams squeeze the water out of the sludge when it is the pump that feeds the sludge into the press which creates the pressure to force the water out of the sludge. The result is dry solid cakes containing a low percentage of moisture, which are dropped beneath the filter press at the end of the filtration cycle. This process is fully automatic and does not require the presence of an operator.

The feed pressure to the press is also an important consideration. If the feed pressure is too high (for example 20 bar) then this will result in high energy consumption, accelerated wear on the filter cloths, accelerated wear on the pump impellors and liners and damage to pump seals. The goal is to achieve filtration at the lowest possible feed pressure which in our industry can be found between 10 and 14 bar pressure. To achieve the driest possible cakes, factors other than feed pressure are considered such as the density of the feed sludge, the thickness of the filter cake and the choice of filter cloths.

When considering which filter press to purchase customers have a choice between a side beam press or overhead beam press. Side beam presses are manufactured from rectangular steel box sections which run along either side of the filter plates whereas overhead beam presses are manufactured from heavy duty I section beams located at the top of the filter plates. Therefore, side beam presses are cheaper to construct and tend to be used for smaller applications as they cannot support as many filter plates as overhead beam presses without the addition of further steel frame supports. Overhead beam presses offer unrivalled access to the filter cloths whereas side beam presses obstruct access and maintenance to the cloths must be done from the top of the filter press.

To meet the growing demand of the market for larger throughput capacity, the size of the filter presses has constantly increased and now Fraccaroli & Balzan manufacture some of the largest filter presses in our industry that can discharge up to 32 tons of cake per press cycle.

Even though the basic concept of filtration is quite simple, Fraccaroli & Balzan has enhanced many features to improve the performances of the filter press, reducing operational costs, increasing the production rate, and making the management of the filter press much easier.

The larger filter presses are equipped with dual over-head beams, to provide a high structural integrity, plate stability and easy access to the plates for maintenance or any other intervention. In fact, the structure of the filter press is completely open from the sides and from above, so that the operator can enter directly into the filter press and the plates can be removed from the top.

# Quarrying



The filter press is equipped with a robot for high-speed plate shifting and shaking and for allocating the automatic cloth washer. There are no chains, sprockets, or any other complex and unreliable mechanisms for moving the plates. It is particularly important to highlight the scope of the plate shaker. It makes sure all cakes are dropped at the end of the cycle. Fraccaroli & Balzan was the first company to introduce this mechanism in the filtration business.

A full-length drip tray or a shorter moving drip tray is integrated in the filter press structure. Either way the collection of water during the washing cycle and access to the filter press for maintenance is guaranteed.



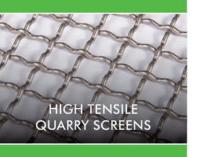
technologies. The filter presses are fitted with a PLC and all operations can be visualized and controlled remotely. With a local WIFI, the customer can use a tablet to control the filter press. As an alternative, the customer has the possibility to control the filter press remotely using any connection, for example their personal PC. With a dedicated app, we can control the touch screen from our smartphone.

If you are considering the washing of recycled aggregates or are looking for a solution for the dewatering of sludge from your existing process, please contact the team at Tyrone International.





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# **Conveyor Belt Cleaner Tension: A Key to Optimal Performance**

# R. Todd Swinderman / P.E & CEO Emeritus, Martin Engineering

Conveyor belt cleaners have evolved over the last 50 years from mostly homemade designs to a wide variety of engineered solutions to suit virtually every application. The expectations have changed over time as the relationship between health, safety and productivity and clean belts have become more widely accepted. As development continues, a single solution to the problem of belt cleaning and tensioner design is unlikely to be found due to the numerous variables and conditions that affect belt cleaner effectiveness.

### **General Requirements**

A discussion about belt cleaner tensioners must include the basic approaches to belt cleaning, as the most effective approach is achieved through a combination of cleaner and tensioner designs. Industry has gravitated toward mechanical cleaners and tensioners because they are simple and economical. The most common mechanical belt cleaner designs present a blade or brush at various angles to the belt. Depending on the cleaner type and materials of construction, they can approach the belt at either a positive, negative or zero rake. [Fig.1]

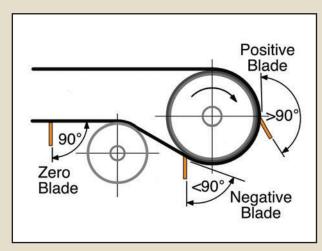


Figure 1 - Blade style cleaning angles

Regardless of the basic cleaning approach, maintaining the optimum range of contact pressure will result in the best balance between cleaning performance, cleaning element wear, belt wear and power requirements. CEMA Standard 576, Classification of Applications for Bulk Material Conveyors Belt Cleaning, provides a performance-based classification system for use in specifying belt cleaners.

# **Basic Approaches to Tensioning**

There are two basic approaches to applying tension to the belt cleaner: linear and rotary. [Fig.2] The blade's angle of approach to the belt often dictates whether a linear or rotary tensioner is applied. The stored energy that creates the tensioning force most often comes from gravity, springs or actuators. CEMA defines the cleaning positions as Primary, Secondary and Tertiary. [Fig.3] Most belt cleaners mounted in the primary position utilize a rotary style tensioner, while most

belt cleaners mounted in the secondary or tertiary positions use linear style tensioners.

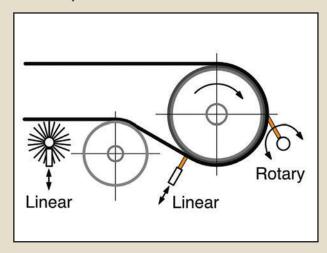


Figure 2 - Basic tensioning approaches

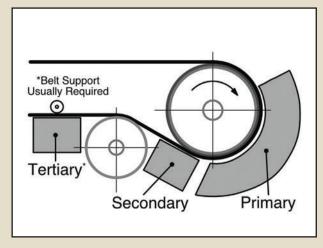


Figure 3 - CEMA-defined cleaning positions

# **Linear Tensioners**

Linear tensioners are most often applied where the compensation for wear is required in small increments, such as with hard metal-tipped cleaners located in the secondary cleaning position or with brush cleaners. The basic tensioner design approach is typically a carriage that constrains the support frame but allows linear movement along a guide or guides roughly perpendicular to the belt surface, with the support frame and blade design providing the cleaning angle. Some designs incorporate a relief ability for impact by splices or belt defects.

The advantages of linear tensioners include: 1) simple in design; 2) can be engineered to one setting for full blade wear; 3) access windows are easily incorporated within the mounting footprint; 4) can accommodate actuator deflection scales for accurate adjustment of cleaning pressure and; 5) delivers the ability to adjust for uneven mounting positions or asymmetrical blade wear.

# Quarrying

The disadvantages of linear tensioners include: 1) the tensioner footprint can be large, restricting options for ideal belt cleaner installation; 2) there must be access to the far side for adjustment; 3) the guide mechanisms are subject to fouling from dust and corrosion and; 4) changing from bottom adjustment to top adjustment or providing for adjustment from one side complicates the tensioner design.

# **Rotary Tensioners**

Rotary tensioners utilizing an actuator are principally designed using a lever arm or an elastomeric element that is concentric with the belt cleaner support shaft. They apply a blade-to-belt contact surface determined by the actuating force and linkage geometry. The energy source delivers a force to the lever arm which rotates the shaft and forces the belt cleaner blade(s) against the belt surface. Rotary designs tend to be compact and, in most cases, the actuator(s) can be mounted at any orientation, which provides options for installing the belt cleaner in the optimum position.

# **Counterweight Tensioner**

At one time the most common rotary tensioner was a counterweighted lever arm, with its position adjusted to apply the design cleaning force to a blade or blades that contact the belt. A counterweight can be mounted on one end of the shaft or both. Usually, the initial installation would have the arm angle set so that at the midpoint of the blade wear the arm would be horizontal, thus roughly averaging the design cleaning force over the life of the blade. [Fig.4]

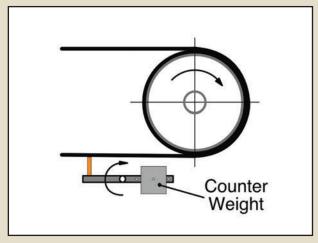


Figure 4 - Typical counterweight tensioner

The primary advantage of the counterweight design is that it is self-adjusting by gravity. The disadvantages of the counterweight design are: 1) the lack of damping which allows the blade and therefore the weight to bounce when struck by a splice, strongly adhered material, like ice or a defect in the belt. The unexpected movement of the counterweight can represent a safety hazard and uncontrolled bouncing can result in belt top cover damage; 2) the counterweight tensioner takes a significant amount of space and; 3) if the counterweight arm cannot be mounted horizontally there is a reduction in the force applied to the blade, because the effective lever arm is shortened.

# **Rotary Lever Arm and Actuator Tensioners**

Rotary adjustment of the belt cleaning blade can be accomplished in several ways. The support frame is almost always in a fixed location but free to rotate. The required tensioning forces can be applied by many types of actuators,

such as: springs, fluid cylinders, electric actuators or from torque stored in an elastomeric element. Rotary tensioners are often used with elastomeric blades, where the change in blade height and thickness as it wears is significant. [Fig.5]

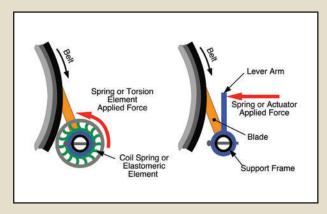


Figure 5 - Rotary tensioner types

The advantages of rotary tensioners are: 1) a compact design; 2) a single tensioner mounted on one side of the conveyor can often be used for a range of blade styles and belt widths; 3) they can be designed to minimize the number of times the tensioner has to be adjusted during the life of the blade and; 4) many types of actuators can be used.

The disadvantages of rotary tensioners are: 1) there can be a safety hazard if the support frame is mounted too far from the pulley and the cleaner pulls through; 2) the mounting location of the axis of rotation is critical for proper blade cleaning angle; 3) the constant force output by some actuators can result in a wide variance in cleaning pressure and blade life over time; 4) when a tensioner is required on both ends of the support frame, it is often difficult to access the drive side of the conveyor for mounting and adjustment.

# **Other Factors**

The importance of proper installation should not be overlooked for the proper performance of the belt cleaner. Slight variations in the location of the support frame relative to the belt can cause significant issues with the effectiveness of the blades and can result in support frame bending. Most manufacturers provide detailed instructions for the location of the support frames and tensioners, which must be followed for optimal function.

To be effective, belt cleaners should be frequently inspected and maintained. In practice, the design of the conveyor structure and location of the drive and other equipment makes service difficult. Consideration in the design stage for easy access and ergonomic location of the cleaners for inspection and service will pay dividends in reducing carryback, maintenance time and potential exposure to injuries.

To maximize blade effectiveness and minimize rapid wear, the recommended adjustment protocols should be followed. Studies have shown that there is a critical cleaning pressure range for various types of cleaners and blade types. These studies demonstrate that over-tensioning the belt cleaner does not necessarily improve the cleaning effect, but often results in increased belt and blade wear as well as higher power consumption.

# **Quarrying**



Automated tensioner

# The Future of Cleaner Tensioning

As technology continues to advance, suppliers are beginning to integrate an increasing level of functionality in belt cleaner designs. One such innovation is a belt cleaner position indicator that can monitor the blade and estimate remaining service life based on the current hourly wear rate. Able to retrofit directly to existing mainframes, the device is capable of sending a notification to maintenance personnel or service contractors when a cleaner requires re-tensioning or replacement.

This capability brings a number of benefits. Inspection and service time is reduced, as maintenance personnel no longer need to physically view the cleaner to determine the tension or wear status. It also reduces the time workers need to spend near the moving conveyor, helping to minimize the potential for accidents. By relying on data -- not human judgement -- to maintain the appropriate tension for optimal cleaning performance and monitor blade wear, the indicator maximizes service life and reports with certainty when a blade is nearing the end of its useful life, delivering a greater return on cleaner investment. Replacement orders can be scheduled for just-intime delivery, reducing the need to stock parts inventory, and installation can be scheduled for planned downtime instead of on an emergency basis.

Taking the technology a step further is another patent-pending device that combines the position indicator with an automated tensioner. This novel powered assembly incorporates sensors that constantly monitor blade pressure and adjust its position to maintain optimal cleaning tension. Maintenance personnel no longer need to visit each cleaner and manually re-tension. Instead, the tasks are performed automatically, reducing maintenance time while maximizing the usable area of every cleaner. Analytics provide an unprecedented view and understanding of belt cleaner performance, with real-time data available remotely via a specially-designed app.

### **Conclusion**

While manufacturers continue to improve belt cleaner effectiveness, it has become clear that there is no single or ideal solution for belt cleaning and tensioner selection. Safety of personnel and the belt itself is an important consideration when selecting a tensioner. Ease of inspection and maintenance is critical for belt cleaner effectiveness, so the tensioner must allow for quick and safe service.

The selection of a belt cleaner should be based on the duty rating of the cleaner as provided in CEMA Standard 576 and then the appropriate cleaning system selected. The system should be selected based on life cycle cost and not just the initial price. The investment for effective belt cleaning is justifiable on direct cost reduction (cleanup costs), extended component life (often 25% to 40%) and reduced exposure to injuries, which is directly related to reduced cleanup frequency.



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- Available in track and wheeled versions. Diesel, electric and hybrid drive units. Screening drum 5.5 x 2.2m allowing a 33m² screening area.

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- programes.
  High flexibility in shredding the most different types of materials.
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- Static or mobile chassis.
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- Wear parts made of highly resistant HARDOX steel.
- Overstroke on each wing to maximise density and minimize wear in the box. Double cutting cylinder and Prismatic











management and recycling sectors. As these industries look to move away from diesel powered equipment, the team at HAAS has successfully converted the ever-popular TYRON to a Hybrid machine.

Whilst our customers and the wider industry understand the need to make their operations more efficient and environmentally friendly, the transition to electric and alternative fuels has been put under time-pressure by the removal of the UK red diesel subsidy in April 2022.

The new Hybrid TYRON bridges this gap by combining a small 43kW diesel engine with a 280kW electric motor. The diesel engine is utilised exclusively for operating the tracks, to manoeuvre the machine around the site. The electric motor provides power to the rest of the machine, including the shredding shafts themselves.

This innovative new development combines the flexibility of a mobile machine with the energy efficiency of static equipment. It dramatically reduces the reliance on diesel and produces no exhaust emissions during its operation. The Hybrid machine also offers quick set-up times, with a simple 3-phase connection to the mains, a multifunctional control panel and remote control.

A key factor in the design of the Hybrid machine was to not compromise the shredding performance and reliability achieved historically by the diesel-powered TYRON.

Aside from the introduction of the electric motor, the Hybrid TYRON includes all the features and benefits of the standard TYRON 2.0. The recently upgraded shredding chamber provides a more aggressive infeed and optimal clearance between the shafts and the outfeed belt, increasing the TYRONs throughput capabilities.

The Hybrid TYRON also incorporates the upgraded servicing and maintenance features of the TYRON 2.0, including ground level access to the shredder chamber, enabling safer and more efficient servicing and maintenance of the shredding shafts.

"The introduction of the Hybrid HAAS TYRON provides our customers with the flexibility of a mobile shredder, whilst benefiting from the efficiency and power of a static electric machine. Needless to say, this is something that has become



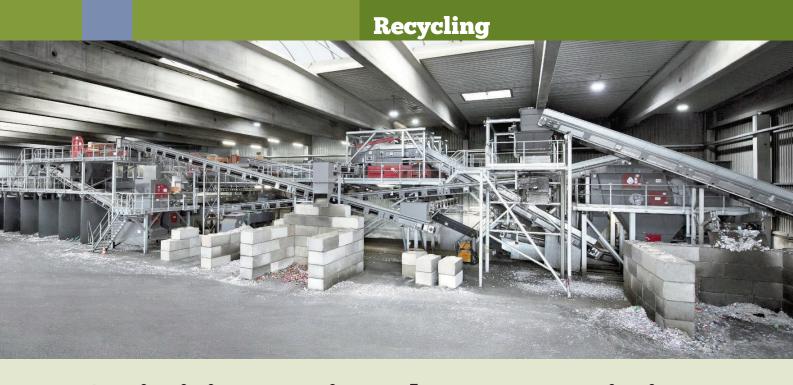


increasingly important with the scrapping of the red diesel subsidy for the UK waste and recycling industries."

# Ben McQuaid - Director at CRJ Services Ltd.

"Climate protection and CO2 reduction are elementary challenges of our time. The new hybrid version of the primary shredder is a mobile, electric version. This TYRON combines the convenience of a mobile machine with the energy efficiency of a stationary plant. The shredding process is emission-free. This saves a significant amount of CO2 and is our contribution to climate protection. We hope that our customers feel the same - and decide to switch from diesel to electric drive.

Rene Perne - Sales Manager at HAAS Recycling Systems



# **Optimising sorting plants to maximize** the benefits of Deposit Return Schemes



Deposit Return Schemes are gaining increasing attention as a means to improve collection and recycling rates for drinks packaging. STADLER has the expertise to help recycling facilities increase the quality and purity of the output from materials collected through these schemes, contributing to a circular economy. Dr. Benjamin Eule, Director of STADLER UK, explains how.

As the pressure to drive a shift towards a circular economy increases, the need to address the issue of drinks packaging waste is gaining urgency.

"In the UK, the Department for Environment, Food & Rural Affairs (Defra) has set high recycling targets for the country in its Resources and Waste Strategy. The waste management industry will need to improve the volume of materials collected and the quality of the output so it can re-enter the production cycle and close the loop of a circular economy," states Dr. Benjamin Eule, Director of STADLER UK.

According to Defra, "UK consumers go through an estimated 14 billion plastic drinks bottles, 9 billion drinks cans and 5 billion glass bottles a year and, although plastic bottles are fully recyclable, recent packaging recycling rates demonstrate that there are significant improvements to be made in drinks container recycling."

In its Resources and Waste Strategy published in 2018, the government set ambitious objectives aimed at driving a shift to a circular economy. They include a target for England to collect 77% of single-use plastic bottles placed on the market by weight by 2025, and 90% by 2029. To support this effort, it is planning the introduction of a Deposit Return Scheme (DRS) in the United Kingdom to increase the recycling rate of drinks containers and reduce littering. It is currently evaluating the results of consultations about the timing – expected to be between 2022 and 2024 - and method for its roll out.

# **Effective sorting systems are critical for Deposit Return Schemes to fulfil their potential**

For the DRS to fulfil its potential in addressing the drinks packaging waste issue and contributing effectively to a circular economy, it needs to be complemented by efficient





sorting processes. This is key to achieving high-quality endproducts that can compete with virgin materials on the market.

STADLER can make all the difference in how successfully DRS materials return into the production cycle. "We understand the material mix which will have to be processed and the challenges this presents," explains Dr. Eule. "The main issue in sorting drinks packaging is to avoid cross contamination to achieve the high purity rates required for recycling. What this entails depends on how the DRS materials are

collected. If they come from reverse vending machines, there will be little contamination and it will be mostly about achieving the best quality of the output. If that isn't the case, the DRS material will have to be segregated from other recyclables or material flows, and some pre-treatment for cleaning will be required."

STADLER also has extensive knowledge of the process technology: "we have the flexibility to design the sorting plant that will deliver the quality and purity of the DRS mix ready for the direct return into product as part of the circular economy. We can design and install mechanical pre-treatment and material enrichment for PET and metal drinks containers.

# Recycling

Depending on the requirements of the processing plant, this can be a stand-alone facility or provide pre-treatment for a secondary process. Together with our partner KRONES, we can provide a complete mechanical pre-treatment and flake washing plant solution that would be ideal for a PET mix. In addition, we can evaluate the impact to existing MRFs and PRFs, which will have some of their input material diverted away by DRS and consequently will require rebalancing the processing flows of their existing facilities."

STADLER has partnered with KRONES, a well-established name in the food and beverage industries, with the aim of harnessing the advantages of plastics recycling to benefit customers as simply and profitably as possible, offering a complete package — from sorting through to the washing process, to the creation of a new plastic product.

STADLER's extensive know-how and experience gives it the capacity to recognize new requirements and design solutions to address them. For example, in a state-of-the-art project for the complete modernization of the PET sorting plant of

recycling management company RCS Rohstoffverwertung GmbH in Werne, Germany, it identified the new need of removing the bottle labels before sorting and developed a new Label Remover to provide a solution.

STADLER has also designed and built a high-capacity automated plant for Dansk Retursystem, which operates Denmark's Deposit and Return System for beverage bottles and cans with the aim of recycling as many as possible into new ones. "This fully automated plant has the flexibility to process large volume flows of mixed bottles and cans and allows the customer to select different operating modes according to the requirements," explains Dr. Eule. At the end of the line, balers compact the aluminium cans on one output line and PET bottles on the other.

There is a long way to go, in addressing the drinks packaging waste issue. However, companies such as STADLER have the technologies and expertise to help the recycling industry make significant strides towards achieving a true circular economy.



# Oakfield Recycling go Agg Pro again to cater for ever increasing demand

Oakfield Recycling Centre, set in Hucknall, Nottinghamshire, is a thriving operation that can process up to 150,000 tonnes of brick, concrete, tarmac and other hardcore items each

Having worked with Oakfield for some time now, it came as no surprise when we received the call for more equipment to help them cater for significant increases in demand.

We caught up with Gary Harby, Recycling Manager and Paul Elliker, Machine Operator, to get their take on developments at Oakfield.

When asked about the expansion of the site Gary commented; "Over the last twelve years we've grown our operations hugely, and that has meant the site has had to follow suit so we can meet the increasing demands."

# All the McCloskey's have been great for us, I can't knock them.

The busy recycling plant has utilised Agg Pro numerous times over the years, whether it be an upgrade to existing equipment or a new machine to help increase capacity and output. The latest addition is the installation of a new McCloskey J45 Jaw Crusher.

Gary went on to speak about the equipment Oakfield have acquired through Agg Pro; "We've had a C50 Jaw Crusher (now a J50), a R105 Screener, a couple of J45s and a J45R, among others. All the McCloskey's have been great for us, I can't knock them."

Talking about the pressures to further increase the output of the site as a whole, Gary said; "We've never been so busy. More and more materials keep coming which is great but it means we need to make sure we can deal with it.

"The J45 has been installed today and as usual the guys at Agg Pro have had it up and running in no time. As we all know, 'time is money', so we really value this."

We then spoke to Paul to gauge his thoughts on the recent addition of another McCloskey Jaw Crusher; "The beauty for me is in the simplicity of the controls. I need to be able to pull a leaver and know that the machine will do as I ask, rather than having to try and figure it out on a computerised control panel."

When talking to Paul it was apparent that the one thing Oakfield valued more than anything else was the after sales and service support from Agg Pro.

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# If we need parts, next day we'll have them. I cannot fault the service at all.

"The back-up service is brilliant, it really is. If we have any problems, we just call Phil and he'll get an engineer out to us, nine out of ten times it's the next day too.

"If we need parts, next day we'll have them, that's if it isn't the same day. I cannot fault the service at all. Agg Pro completely understand the way we work and ensure downtime is kept to an absolute minimum."

Take a look at our drone footage that captures the new McCloskey J45 working in perfect harmony with the TS4065 Stacker and the R105 Screener to not only process materials but to transfer those materials to different areas of the site, so as to create space for stockpiling more in and around the current operation. View video at agg-pro.com/oakfield

At Agg Pro we pride ourselves in our flexible and responsive setup that allows us to respond to our customers' needs at the drop of a hat.

We continue to invest in the team which underpins our success. If you would like one of the team to advise on new equipment, operational efficiencies and additional process streams or simply need prompt supply of spare parts to minimise downtime, please get in touch.

At Agg Pro - we've got your back.

#### Get in touch

Our friendly team are on hand to discuss your specific requirements and recommend the perfect solution to drive éfficiencies in your operations.

**Tel**:+44(0)1827 280139 **Email**: sales@agg-pro.com

Alternatively, send us your details below and we'll call you back.

Request a call back - agg-pro.com/callmeback



Whilst you may know our Sales Manager Jonny McNaugher is passionate about everything crushing and screening . . . you likely will not know he loves to 'Spoil a good walk by hacking around the golf course'.

Our Engineering Facilities Manager Paul Dicken is the man to go to when it comes to workshop efficiencies and safety . . . but did you know he likes nothing more than preparing culinary delights in the kitchen.

Sales Manager Fintan Harkin is known for his persistence in finding solutions to any issues our customers may have . . . however you probably weren't aware he started his career in crushing and screening on the other side of the world.

Find out more about Jonny, Paul and Fintan, along with other members of the Agg Pro team.







Jonny McNaugher

Fintan Harkin

# The Edge VS420 tried, tested & proven

With decades of knowledge in the design, manufacturing, and installation of mobile waste shredders, it is no surprise that EDGE Innovate's VS420 twin shaft shredder released in March 2020 is quickly gaining a reputation as a world class shredder. With its high capacity, reliability and low running costs, the EDGE VS420 is proving to be an excellent shredding alternative to what is currently on the market.

We sit down with EDGE Innovate's Territory Sales Manager, Tom Connolly to speak about the success of the EDGE VS420 to date. "The interest in the VS420 has been extremely high across Europe, North America and particular the UK market, With several units already installed and working in the UK; many British waste management companies have been quick to recognise the operational benefits of the VS420 with its capabilities and versatility being proven in applications such as MSW and wood waste".

#### Popular design features

Tom Connolly points to the many significant design features found on the VS420 that he believes has made the VS420 the shredder of choice for so many waste management companies. "The VS420 offers a host of design features as standard. For instance, the combination of EDGE's Intelligent Load Management and the VS Status Alert System. These two systems work in tandem to ensure the efficient loading of the shredder. This in turn, allows the operator to achieve consistently high throughputs and most importantly, experience minimal downtime." Tom continues "The EDGE" VS420 'track and shred' functionality is another unique feature available as standard on all VS420 units. It enables the VS420 to be repositioned via remote whilst continuing to

Other notable features found on the VS420 include hydraulic hopper extensions with integrated locking mechanisms. The simple configurable nature of the extensions allows flexible loading whilst creating a much larger target area for the loaders resulting in reduced material spillage and improved operational safety. This is supported by a large capacity tipping hopper with remote functionality which aids with the feeding of material to the shredding chamber; it is particularly beneficial for feeding of elongated feed stocks. A hydraulic height adjustable powerful twin pole magnet fitted to the discharge conveyor ensures a high rate of ferrous metal recovery from the waste stream.

#### **Peformance**

The high material throughputs achievable by the VS420 are made possible thanks to a set of 2m long, high torque shredder shafts that can be customised to suit a customer's exact application and to create a designated final product

Tom explains the highly customisable nature of the VS420 'EDGE Innovate offer a wide range of tooling options and chamber configurations to ensure that the VS420 is set up to achieve the best results for its operators. With decades of experience, the EDGE team are in the perfect position to

advise on the best set up for their clients so that their unit creates the right tonnage at the desired piece size.'

EDGE's VS420 encompasses a twin shaft design which Tom explains "our twin shaft design provides exceptional material intake, ensures less wear, promotes self-cleaning and prevents material wrapping even in the toughest of applications. Our chamber design is proven to provide high percentage up time and does away with the need of cleaning material wrappage which can be an issue evident with many single shaft shredder units."







The EDGE VS420 is controlled via the latest EDGE Operating System (EOS) which EDGE says provides improved user-friendly controls and allows the operators greater control over program settings, shaft speed and reverse cycles. "For example, the VS420 operating system provides five factory pre-set shredder programs for demolition wood general waste green waste."

mattresses, and compost so that operators can jump quickly from one application to another and still achieve favourable outputs. There are three additional program settings that can be tailored by the operator to suit their specific input materials." Tom says.

The EDGE VS420 is powered via a Caterpillar C9.3B Tier 4 Final / Stage V ACERT engine with a power rating of 310Kw (420HP). Caterpillar's SCR technology reduces engine emissions and provides a robust and economical solution for EDGE's customers. Fuel consumption is 9% less than comparable Stage IIIB engine options.

#### **Operator safety and maintenance**

"The VS420 has been designed around the operator to ensure enhanced operational and maintenance safety. For example, EDGE's uplifting power unit, radiator and chamber doors ensure superior maintenance access which is complimented by a "One Point" service area which enables daily maintenance checks to be done easier and quicker." Tom says, "Operators can access fuel and adblue tanks, air filters and oil gauge; all from a single vantage point."

The EDGE VS420 also offers added remote functionality as standard. All major functions on the VS420 including tracking, tipping hopper, shafts speed, engine speed, shaft reverse cycle, discharge conveyor working angle and magnet position can be remotely operated from a safe distance of up to 100m or in the comfort of the loaders cabin.

EDGE Innovate's next generation shredder has been proven to "achieve high-capacity throughputs, operational reliability, and offers low operational costs."

For more information on EDGE's range of next generation shredders please visit; www.edgeinnovate.com



# Jones Skips Invest in next generation Doppstadt Shredder



Following their investment in two new Fuchs material handlers back in 2020, Jones Skips continue to choose Blue as they purchase the **UK's first Doppstadt Inventhor Type 6 Plus** slow-speed shredder.

Set up in 1998 by Lyndon Rushby and his father, the company are now one of the leading skip hire providers in the West Midlands. Starting off with just a single lorry, the company saw steady growth before moving to a bigger site in 2012. Since moving premises their fleet has expanded from twelve lorries to forty-five, and their previous location is now used as a specialist biomass site.

Jones Skip Hire's other services include waste disposal, contaminated waste disposal, special waste disposal, waste transfer station facilities, bulk haulage, tipper lorry hire and road sweeper hire. The company cater for all sorts of waste, both residential and from blue chip companies, with everything coming back to their site and nothing being tipped at third party companies. All their waste is processed through their plant, which was supplied by Blue, before being shipped out to various sites for waste to energy.

The company has been running Doppstadt DW 3060 slowspeed shredders for the past 10 years and decided it was time to invest in the next generation of Doppstadt slow-speed shredders. The Inventhor Type 6 sets the standards for shredding efficiency. Offering the best of both worlds, with all the highlights of the popular DW 3060 series, paired with the technological innovations from the Inventhor Type 9.

With the Type 6 being launched last year, Jones Skips have taken on the UK's first 'Plus' model (previously known as the Biopower). The Plus model has ten extra shredding teeth (30 compared to twenty on the standard model) and boasts a



310kW CAT engine versus the 260kW MTU diesel engine on the standard Type 6. The extra teeth and more powerful engine allow Jones Skips to shred their materials down to a smaller size.

Jones Skips are using their new Type 6 to shred residual waste from the picking station before screening it through a Doppstadt SM 620K plus trommel. They also use the shredder to downsize wood before sending it over to their waste wood site. The customer was so impressed with the performance of the new Type 6 that they only had it on demo for one day before deciding to buy it.





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# **Extraordinary Impact**

H Sivyer Transport Limited - or "Sivyers" - is creating a cleaner, greener future in one of the world's most challenging environments. Hub4 met Sivyers' Managing Director, Simon Sivyer, to find out how the company is at the forefront of sustainable aggregate production in the heart of London.

"Over the last 18 months, the environment – specifically, the impact a project or process can have on the environment – has become a focal point," opens Simon. "It's always been important, but I've seen it climb the priority ladder to become a prominent feature for every customer. Not only do we, as a company, have a huge responsibility in this, but we also have one of the best opportunities to make a positive impact."

Today, H Sivyer Transport Limited is the largest muck away company in London. Every day, more than 200 people and 130 tipper grab lorries service the capital's material collection and disposal needs. Each year, the company moves 1.5million tonnes of demolition and construction waste, with an annual turnover of £40million.

# With great achievement comes great responsibility

Alongside the constant challenge of operating in one of the world's most hostile environments — London is a unique mix of tight regulations, emission limits, logistical bottlenecks, ever increasing traffic and strict environmental standards — there remains the biggest question; how do you handle such a vast amount of material in a city as compacted and congested as London?



"The demand here is huge," answers Simon, "but we are doing more than just your usual recycled aggregates. We still offer your 6F5, Type 1, Shingles, etc, but we have invested heavily to develop processes which enable us to make any British Standard aggregate from recovered material."

This alone is an impressive statement; British Standards are strictly controlled and many BSI aggregates are rarely made with anything other than virgin or primary material. Few can achieve the required standard with recycled product, yet Simon and his team have done just that in the country's capital.

"The upstream benefit is massive. If every project in London used primary materials, we'd have thousands of lorries travelling hundreds of miles in and out the capital every single day. These products can now be produced locally, using local materials that are being recycled right here in the capital. Just in the logistics, the embodied carbon saving is huge.









"This also reduces the demand for virgin materials. For example, much of the drainage shingle used here in London is dredged from the North Sea. Now, contractors can choose a recycled product that meets the same standards, without negatively impacting the environment by transporting a raw material dredged from the seabed.

"We have our own research and development facility, and have developed our own processes to deliver materials that meet every required standard, including BSI and RAP Quality Protocols. We are rigorous with our testing; Sivyers is a fourth generation family business with a long-standing reputation for quality. Every stone we sell must uphold that."

# McCloskey machines; the muscle of the operation

Processing material are several McCloskey screeners, including three R230 High Energy Screeners, an S250 Screener – one the largest track mobile screeners in the world – and a tracked 621 Trommel, all supplied by McCloskey Equipment.

McCloskey boasts more than 35 years' experience with Trommels — it was the company's first line of products in the 1980s. Today, McCloskey is the world's leading trommel manufacturer, having pioneered trommel design and innovation for more than three decades.

The 621 Trommel is perfectly suited to Sivyer's operations, with a world-wide reputation of proven reliability in construction and demolition waste, topsoil, compost, waste recycling, as well as many other large screening applications.

Also supporting operations are three McCloskey R230 Screeners. As one of the most robust, durable and powerful heavy-duty mobile screeners at work around the world today, the R230 provides uncompromised production levels across even the most heavy-duty scalping operations.

Sivyer directly benefit from the performance of these High Energy Screeners; these three machines deliver the required high-volume outputs of the company's vast operations, whilst reliably creating high-quality screened product, all delivered with the maximum efficiency.





Completing Sivyer's operations is the McCloskey S250 Triple Deck Screener, a machine that raises industry standards to deliver truly outstanding results, both with throughput and quality.

As one of the largest track mobile screeners in the world, more true screening area is offered from the machine's 22ft triple deck, high energy screen. This class leading screening area, along with its high energy screening action, ensures the McCloskey S250 used by Sivyer provides the very best aggregate from an uncompromised material screening process.

#### **Support from McCloskey Equipment**

Sivyer has worked closely with McCloskey Equipment throughout the development of their materials catalogue, utilising their collective knowledge from the materials' processing and recycling industry.

"McCloskey machines offer fantastic performance; the quality of the product speaks for itself, with each running efficiently. I've worked with McCloskey Equipment for several years and they've always delivered, whether it's been a routine service for a machine, or a bespoke addition for one of our specialist

processes. By combining our vision and R&D facilities with McCloskey Equipment's knowledge and experience, we've been able to achieve something truly remarkable."

#### The Amazon of Aggregates

The Sivyer company has come a long way over the last 160 years, and it is not about to slow down anytime soon. Simon Sivyer continued, "In 1862, we used horses and carts to move construction waste around Victorian London, today we use a fleet of grab-tipper lorries. Improvement is continuous and I am using technology to take our next step forward.

"We still do a lot of business over phone and email. It's old-fashioned trading in a modern sophisticated company. Everything we do is forward thinking, from fleet management to material processing, but the way we trade doesn't reflect this... yet. In 2022, we are launching a new user-friendly buying experience, the 'Amazon of Aggregates' if you like, a one-stop-shop where any customer can search, find and order the materials they need quickly and efficiently on our website. Not only will the streamline the buying process, but it will also promote sustainable, recycled alternatives next to traditional materials — and, for me, this is key."

#### "This is personally important"

Leading the company his great-grandfather, George Hutchings, established will always be personal for Simon Sivyer, and the impact his business and customers have on the environment is part of that.

"This is personally important to me because it directly impacts the environment in which I live. I'm proud that, as a company, we have created sustainable, affordable options for the benefit of our customers and the environment. This is a big step forward in construction, one I hope others will follow."

"Waste is complex, often a soup of mixed materials which, once upon a time, may not have been processed as it should. I'm sure there are still some companies out there still doing this now, but Sivyers is not one of them. We take our responsibility very seriously and share a passion for high standards. When a customer works with us, they can trust Sivyers to fully manage their responsibilities, and rely on our quality service, whether we are first on site to clear waste or delivering the final load of fully-recycled aggregates."



# **Bodens Group invest in a** Peterson 5710D trackmounted horizontal grinder





The Boden's Group is a biomass and Animal bedding recycling operator specialising in the sustainable and cost-effective processing of wood waste streams into the Biomass and **Animal Bedding sectors.** 

Boden & Davies Ltd was established in 1961 by the late Geoff Boden and is still owned, as well as operated by the Boden family.

Bodens provide a wood waste collection service for all industries, including manufacturing, construction, demolition, and transfer station. They produce many different grades of

network which enables them to deliver nationwide in bulk or bagged form. In addition to the wood recycling business, Bodens Group supply high class animal bedding derived from virgin soft wood which is suitable for any animal from domestic pets to equine and cattle.

Based in Astley, Manchester the company operate a variety of mobile and fixed plant.

Recently the company have upgraded their Peterson 2710D track-mounted horizontal grinder to its big brother, the 1050HP Astec Peterson 5710D which has been supplied by the UK dealer, Neutron Equipment Ltd who are based in Reading, Berkshire.

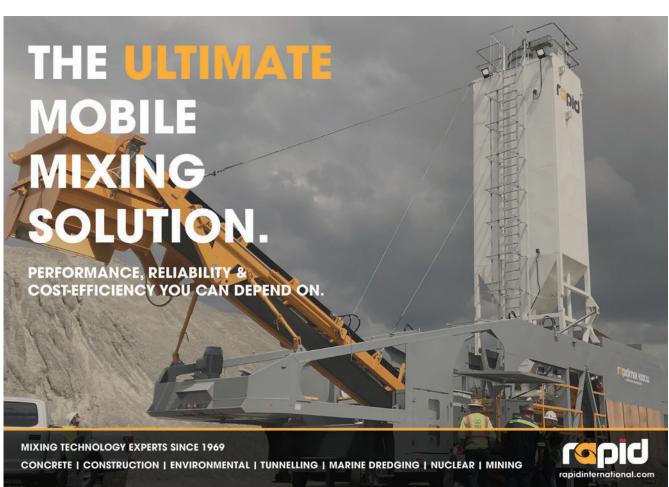
Mike Boden – Operations Manager, takes up the story, "We are one of the largest wood recycling companies in the UK which is one of the reasons we have invested in the Peterson.

"Previously we had the 2710D to process the wood waste which we have now outgrown, so we needed a bigger machine, and because the Peterson and Neutron have given us a first-class service, we decided to look at its bigger brother, the 1050hp Astec Peterson 5710D Horizontal grinder. Neutron organised a demonstration and we were completely in awe of the power of the machine which gave enormous throughput of a quality end product.



of this tough shredding machine.







SAMSON Materials Handling offers the most comprehensive and accomplished range of bulk material handling solutions in the marketplace today. The AUMUND Group, including SAMSON operates internationally specialising in the conveying and storage of bulk materials in a range of industries. The core products of SAMSON Materials Handling are the STORMAJOR®, Ship loader, Eco Hopper and Material Feeder.

The STORMAJOR® offers high-capacity stockpiling and ship loading from a single integrated machine available with a range of specialised features tailored for each application. A universal bulk loader, the conveyor offers very high handling rates within a compact integrated design. Available with the option of three capacity ranges based on the belt width of the outloading boom conveyor as follows: Belt Width - 800 mm: Rate - 450 m<sup>3</sup>/h, Belt Width - 1000 mm: Rate - 750 m<sup>3</sup>/h, Belt Width - 1200 mm: Rate - 1250 m<sup>3</sup>/h. For tipping truck deliveries, the buffer holding capacity of the integral Samson® receiving unit allows even faster truck unloading allowing a high average rate to be maintained even considering delays in positioning the vehicles. Available with a wide range of specification options suitable for handling materials from cereals through to heavy mineral ores. Multiple specification options for maximum flexibility in any application.

The STORMAJOR® 1.0 is a reworking of an original SAMSON design which has been proven in the marketplace over the last 50 years, with many installations globally. The unit is an effective bulk reception feeder for lighter materials such as grains, fertilisers, and lighter aggregates. The unit is tow travel and with full electro-hydraulic operation.

The 'New Generation' STORMAJOR® 2.0 is a bulk reception feeder that offers unrivalled mobility and flexibility for a complete range of industries and applications. High-capacity stockpiles may be generated using the mobile STORMAJOR® without the need for expensive fixed equipment. Many existing warehouses may be easily converted to bulk storage using the STORMAJOR® loading system, thus minimising

capital investment and allowing the effective multiple use of warehouse space. In new installations the STORMAJOR® offers a low-cost solution since there are no machinery loadings applied to the building or civil engineering required specifically, thus allowing lightweight standard portal frame structures to be used, reducing building costs for an economical over-all storage facility. For outside stockpiles, a simple level surface is all that is required to operate the STORMAJOR® generating large stockpiles without any fixed equipment.

SAMSON

The SAMSON STORMAJOR® range of machines receives from trucks of all sizes and is capable of discharging to many ongoing systems, be that rail/barge/conveyor, or to various storage systems. The cantilevered outloading boom design, supported from above, allows the complete boom length to overhang the forward axle clear of the stockpile. Using a hydraulic lift cylinder, a wide operating range can be accommodated allowing the boom to be lowered almost horizontal. At the base, the boom is mounted to a precision slew ring with hydraulically operated slewing system. Combined this system allows material with low repose angle to be stockpiled at steep conveyor angles without fear of the material surrounding the main axle wheels.

For further information on the 'New Generation' STORMAJOR® or the wider SAMSON Materials Handling range of equipment, please contact our Sales Team at sales@samson-mh.com or call +44 (0)1353 665001.

# Perched upon Newhaven dockside, a new Atlas 350MH lands with H Ripley & Co.

With scrap metal prices continuing to rise, metal recycling companies nationwide are seeing the ever-increasing necessity to invest in more machinery. For leading scrap metal processors and exporters, H Ripley & Co this is no exception.

One of the most popular machines within the scrap metal handling industry is the German engineered Atlas 350MH. Offering more than one hundred years of manufacturing expertise, the Atlas range of material handlers are famed for their reliability.

Supplied by the UK's Contract Hire specialists, Contract Plant Rental, an ever-popular Atlas 350MH has recently landed with H Ripley & Co. Operating from five UK sites at Hailsham, Hastings and Newhaven in East Sussex as well as two at Ashford in Kent, the highly respected fourth-generation family run business proudly offer a highly professional and customer focussed approach. Committed to meeting the metal recycling requirements of both UK and international customers in terms of both quality and price, the company harness the very latest in processing and material handling technology.

With a constant flow of incoming material sourced from both industrial and private clients, the company processes the material to industry accepted standards resulting in high grade products required across the globe. Alongside metals recycling, the company runs Ripley Auto Spares to salvage and dismantle vehicles for garages, local authorities, insurance companies and members of the public. This not only brings in a variety of metals but also returns quality spare parts to the market.

To meet an increasing demand for their services, H Ripley & Co have recently added a new Atlas 350MH to their fleet, supplied by Contract Plant Rental on long term contract hire. Contract Plant Rentals Stu Lambert explains, "I have been working as a supply partner to Jason and Simon for some time now, they find a benefit to using CPR as we are not tied to a single manufacturer and have the ability to source any OEM. I initially supplied them a Kramer having discussed their requirements; we arranged a demo with the right spec machine and thus our joint operation began." Stu added, "A few months on, Ripleys were looking to replace an aging Sennebogen machine. We looked at a few manufacturers and presented them with the best all round package for servicing, reliability, availability, and machine spec. I presented them with the Atlas 350MH complete with 18m boom and it was received with delight by the operators and both Jason and



### **Material Handling**

Contract Plant Hire provide cost effective machinery solutions to customers nationwide. Serving industries from construction to demolition, metal recycling and waste management to civils, plant hire, rail, and ports. Providing any make and any model to any sector, the contract hire specialists provide hassle free solutions which are proving ever popular across the UK. The Atlas 350MH has been specified to suit H Ripley & Co's particular requirements, not only specified accordingly but supplied with total peace of mind too.

Equipped with a 6-cylinder diesel engine, the Atlas 350MH offers 245 HP whilst meeting Tier 5 emissions regulations with ease. Boasting an 18m reach fitted with the popular Atlas E751 600L grab, the 36-ton material handler is ideal for sorting and loading trucks and boats alike.

The German built material handlers splits its time between the dockside where it loads boats on a regular basis and the yard where bulk tippers are serviced and general yard duties. Sitting on a set of super elastic tyres, the large undercarriage is equipped with four outriggers to provide a wide and stable platform whilst the larger 8.2-ton counterweight provides increased stability when loading ships at full stretch. Additional belly plates have been added to protect from errant pieces of metal.

In its first week of operation down at Newhaven Docks the machine was set straight to work loading a pile of material onto a large ocean-going vessel.

Stu Lambert of Contract Plant Rental comments, "The decision to work with CPR for both machines was a logical one. CPR were able to provide a brand-new machine with all servicing and maintenance included for a fixed monthly cost over a fixed period. This inevitably enables H Ripley and Co to easily budget for new contracts."





### Why Contract Hire?

Bringing a wide range of well-known and widely accepted brands to the table, Contract Plant Hire offer cost-effective and hassle-free machinery solutions to various sectors throughout the UK.

Contract Plant Rental offer clients a full package of bespoke machinery married with a nationwide service network at a price to suit individual companies' specific requirements. The benefits are not only financial, with the hassle of owning and running machinery taken care of too, going some way to suggesting why Contract Hire is proving ever popular.

- Flexible terms
- Fixed low monthly costs for easy budgeting
- Servicing and warranty included and taken care of
- No large upfront costs (no deposits and no VAT)









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trucks to arrive in Scotland have gone into service with long-term customer Edward MacKay. And the contractor believes the manufacturer has got it spot-on with the latest TA 230 model.

'I've not had the chance to drive the new truck but just looking at it, they have designed one of the best-looking and well-engineered trucks on the market," says managing director Eddie Mackay.

Plant and transport manager Dean Ross also gives the vehicles the thumbs-up. 'There are going to be little niggles as there always is with new kit but the design of the TA 230 seems to give us what we require in terms of build quality. It also gives the operators what they need in a comfortable and easy-to-use truck.'

The four TA 230s were given a tough baptism near Lochgilphead in Argyll where the contractor is involved in a project to upgrade overhead power lines. The haul along forest tracks is a 30-minute round trip and as Eddie Mackay explains: 'We are probably at the furthest point of the haul at the moment. It will be a good test of the new trucks to see how they cope with long, laden journeys. The ground underfoot is good so that shouldn't be an issue, but it will be a test for the operators.'

forests to allow contractors access to build a line of new pylons. 'Our task is to win material locally and build the haul roads in a particular section,' continues Eddie. 'Once the construction work is completed, we then have to remove most of the roads back to the borrow pit. We undertake everything from the soil strip through the blasting process to the load, haul, and removal of the material.

On completion of the initial phase of construction, the Liebherrs joined several other trucks to haul material from the roads back to the borrow pit where a Liebherr R 956 stockpiles the incoming material.

All four trucks came with tailgates for the 18.1m3 bodies, allowing them to haul loose material without concerns about losing too much material on steep climbs. The exhaust-heated body is standard, as is an auto greasing system. A full array of LED lights illuminates front, sides and rear and 'delayed access' lighting gives the operator safe entry and exit during darker months.

#### The Customer

Operating from bases in Brora and Beauly in the Highlands, the family-owned and run civil engineering and building business has its roots in the 1950s when Eddie's father, Edward, started out as a haulage company with a single tipper lorry. The founder is still involved in the day-to-day running of the business supported by his fellow directors son Eddie, grandsons Liam and Scott and Ian Moffat - in managing the various divisions.



The Mackay dump truck line up complete with drivers, from left to right Grant Sutherland, Gordon Taylor, Eddie Mackay, Jamie Allan and Craig Pirie.

# Mobile Concrete Mixing Solutions for the UK from Red Knight 6 Ltd

What can you do in 4 hours? It is unlikely you'll list the full set up and operation of a concrete mixing solution. But with the Bison mobile mixing plant from SIMEM that is exactly what you can achieve.

Available only from UK & Ireland distributor Red Knight 6 Ltd (RK6), the Bison is the travelling mixing solution that can generate up to 500 TPH with a hydraulic self-erecting system, meaning no cranes are necessary. The Bison is available in two variants, the 250 and the 500. Both are trailer mounted and fully road legal in the UK.

The Bison solutions come with in built industrial PCs with 24" screens, offering real time flow correction and immediate feedback on plant performance and actions. The mobile plant is ideal for a wide range of civil works that require concrete mixing, soil stabilisation and recycled reinstatement material.

"The Bison is the leading, fast and flexible mixing solution available to the UK and Irish markets. It comes with minimal site restrictions and with a 4 hour set up time it offers the most rapid concrete solution on the market," said Dan Flack, Sales Director at RK6. "With so much large scale construction and development, like HS2, taking place throughout the UK we feel now is the ideal time to focus on a truly mobile solution for our customers."

Visit www.redknight6.co.uk to find out more about the variety of concrete batching solutions on offer or call 01293 862 619.













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# G. Webb invest in Keestrack processing power

Originally founded in 1947, G. Webb is a family-owned company based at their Longstanton HQ near Cambridge and currently operate a fleet of over 60 vehicles. As well as offering bulk road haulage the company also supplies a wide variety of construction materials and aggregates.

B5 Mobile Jaw Crusher at South Witham Quarry

With two processing sites one at Little Paxton and a second at South Witham— the company have recently increased their processing power and efficiency by investing in two Keestrack machines, a B5 Mobile Jaw Crusher and K4 Mobile Scalper Screen and a B3 Mobile Jaw Crusher - which they currently have on short-term hire for evaluation.

All three machines have been supplied by sole UK dealer Warwick Ward who are based in Barnsley, South Yorkshire, with service depots in the Midlands (Alcester) and the South (Harlow).

Tom Pope, Keestrack Sales Manager, Warwick Ward, commented, "Keestrack have been pioneers in the field of engineering for crushers and screens since 1988 and the quality and value that Keestrack products add to a business was apparent to the client when the notable fuel savings on the three G. Webb machines were calculated. With the cost of fuel constantly rising all companies are looking at their running costs and the whole product range from Keestrack provides the lowest cost of ownership in the industry, increasing profits for customers. That partnered with Warwick Wards national coverage and outstanding service, keep businesses moving forward."

#### **Keestrack efficiently processing on two sites:**

The K4 Mobile Scalper Screen and the B3 Mobile Jaw Crusher are currently employed on recycling duties at Little Paxton, working in tandem processing a mixed feed of incoming material which is providing the company with saleable recycled aggregates.

A third machine, a B5 Mobile Jaw Crusher is employed at their South Witham quarry where it crushes limestone directly fed by shovel from the face, producing clean single sizes and 6f5 aggregate for construction.

Darren Allison — Operations Director of G. Webb, takes up the story, "I have dealt with Tom for some time, and he has always guided me in machine selection. When we had





processing issues Warwick Ward arranged a demonstration machine and Tom provided me with calculated fuel burn data, and production figures. This was a very successful demo which led us to invest in the K4.

### **Material Handling**

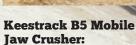


"Further investment was also made at our quarry with the purchase of the B5 and I am very happy with how these machines are performing. Currently Tom has supplied us with a B3 on short term hire which is working on recycling duties in tandem with the K4 while we evaluate the machine. Proof of the pudding has been clear to date with a reduction in fuel costs."

#### **Keestrack B3 Mobile Jaw Crusher:**

Underiably the most compact and high performing jaw crusher in the 30-ton class, the B3 offers a feed size up to 550mm (22"), with a feed opening of 1000 x 650mm (40" x 25.5" and offers a processing capacity of 280tphThe B3 specification includes a 4m³ feed hopper, a 3.7-metre-long

B5 Mobile Jaw Crusher, crushing limestone



Perfect for the quarry industry the B5 is a powerful jaw crusher for primary crushing including hard stone, quarrying, construction, and demolition. Weighing in at 44 tons the B5 mobile track-mounted jaw crusher is designed with a wedge system and a high-stroke jaw and is designed for processing the toughest rock in quarrying and mining applications.

The B5 crushing plant has the ability to crush feed up to 600 mm (24") in size with capacities up to 400 tph.

It features a double deck vibrating pre-screen which reduces fines from entering the chamber resulting in less wear and improved product quality. The hydraulic sliding frame improves serviceability while the load system hydraulic system

vibrating feeder with scalper and a 71JCR jaw crusher with hydraulic management (gap adjustment and safety release system).

The B3 offers the best product shape possible, and the lowest fuel consumption in the industry and offers optional hybrid drive, electric driven conveyors and magnet and plug out which are available for electric driven stacker or screen and an optional independent double deck vibrating pre-screen.

#### Keestrack K4 Mobile Scalper Screen:

The K4 offers unrivalled heavy-duty performance, compact transport and high productivity, safe service access, walkways and a liftable screen box is the first choice for contractors. Capable of processing up to 350tph the K4 features a standard heavy duty plate apron feeder and hydraulic folding hopper walls A double deck screen box 4.200 x 1.500 mm (14' x 5') with a 6.3m² screening surface upper deck, 5,4 m² lower deck completes the specification. The K4 is also available in a full hybrid version and has an extensive option list to configure to your option.



reduces fuel usage by up to 25%. Available in either diesel hydraulic or a plug-in electric/hybrid version with drop-off engine/generator compartment for processing offering a zero-carbon footprint.

# Mechanical Field Engineer Mining and Quarrying

Location: Regional, Midlands sites to offices in South West

Salary: £37k to £48K DOE Contract: Full time, Permanent

Hours: 40 hours per week, usually between the hours of 8.30-5.30, flexibility is required

**Benefits:** Company Pension Scheme, Company Vehicle, Support to improve relevant qualifications and/or with the relevant chartership body and discretionary bonus scheme.

Our client is a well-established specialist in the design, installation, service and support of mineral process systems covering a wide range of process plant and applications, in the mining and quarrying industries.

They hold AVETTA and ISO 9001 accreditation and have been providing high quality equipment and plant for the mineral process industry since the business was formed in 1984.

In this timeframe they have grown to be a highly successful business with an enviable client portfolio.

Over the last few years, the business has expanded to complete a number of projects across various countries and continues to expand its operations within the UK in a number of areas.

In order to achieve this, our client is looking for an experienced and highly motivated field-based engineer to supervise the installation and commissioning of new plants and service existing installations throughout the UK and Ireland.

The successful candidate will work closely with the longstanding team across the UK and have experience in the mining and quarrying industries, SHEQUAL & environmental regulations and other relevant legislation.

Tasks will cover supervision of installation, commissioning new plants and servicing of existing installations throughout the UK and Ireland, with opportunity for overseas travel.

# In addition to this our Mechanical Field Engineer will be responsible for:

- Visiting quarries/sites across the UK, predominantly in the Midlands to: audit, assess process plant condition, commission and supervises the installation of process equipment.
- Work with the team to assist in providing mechanical engineering colutions
- Proficient in the use and ability to read 2D and 3D Autocad drawings with some knowledge of sand and gravel processing equipment.
- Maintaining customer relationships including dealing with any queries or problems.
- · Report to the directors on progress monthly.

# You should have the following skills, qualifications and experience:

- You will typically have 15- 20 years industry experience in mining, quarrying or recycling plants.
- A good technical understanding of Mechanical engineering with practical field- based engineering skills is essential.
- You will have solid experience bulk aggregate or mineral processing plants with a or comprehensive knowledge of SHEQUAL & environmental regulations and other relevant legislation.

- Relevant Engineering qualification in Mechanical Engineering to HND level or time served apprenticeship NVQ or City and Guilds qualification in plant maintenance or mechanical engineering
- · Strong IT skills and ability to use MS Office suite
- Ability to the use 2D drawings using Autocad, although you will not be required to design or amend plant or equipment/drawings.
- A professional and positive approach and a willingness to commit to a task through to completion.
- Excellent communication skills (both written and verbal) in English in order produce reports?
- Excellent customer-engagement skills.
- Be highly organised with sufficient engineering knowledge to question, listen and learn when needed.
- The ability to work very effectively within a team environment.
- · Ability to work to deadlines and problem solve.
- Some project management experience.
- The ability to think creatively and be able to develop innovative solutions
- A good basic understanding of mineral processes and instrumentation, however training on our equipment applications will be provided
- Have a full driving license you must be able to drive to client sites if required.
- Relevant Engineering qualification HND In Mechanical Engineering or time served apprenticeship NVQ or City and Guilds qualification in plant maintenance or mechanical engineering.

#### Location

Whilst our HQ is based in the South West the role is field based and as our clients have a national presence, travel is essential across the whole of the UK and Ireland although there will be a key focus on the Midlands.

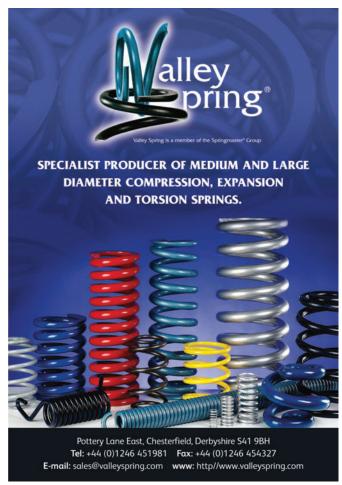
The position will involve working on projects for a range of clients including national and international and some major blue-chip organisations.

The role will some time spent in the office but predominately working on site at clients' premises.

If you feel you have the necessary skills and experience to be successful in this role, please forward an up to date copy of your CV and covering letter explaining why you think you would be suited for the role to: openjobposting1@gmail.com

### **HUB Classified Advertising**





# Waterless Wheel Cleaning System





### The DriveOn V-Tech Dry Wheel Cleaning System from EcoGreen Plant Hire Ltd

- No water to provide, waste or dispose of
- No water course contamination, or freezing or icing
- No power required and no emissions
- No extra kit to hire no pumps, generators, bowsers, lances etc
- No supervision required, and no breakdowns
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