

SPECIAL
AGGREGATE,
CRUSHING &
SCREENING
FEATURE

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

January/February 2021 | Issue 66

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SCRAP HANDLING SPECIALISTS

Molson Green, the specialist recycling and material handling division of the national plant and equipment dealer Molson Group, have expanded their agreement with the leading Bavarian crane and material handling manufacturer Sennebogen to supply their scrap metal and port handling machines throughout the UK.

 **MOLSON**
Green

molsongroup.co.uk/green

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Savings Banked With a TDS 820



Dumfries based recycling specialists, Oakbank Waste Management invest in a Terex Ecotec TDS 820 slow speed shredder, supplied by Molson Finlay Scotland as they continue to improve their waste processing facility.



Established in 1983, Oakbank Waste Management has built a strong reputation throughout the Dumfries, Galloway and Cumbria regions for providing a cost effective, honest and reliable service. Proudly achieving 100% diversion from landfill, their extensive fleet of more than fifty waste collection vehicles including, skip wagons, roll-on roll-off wagons, walking floor artics and front-end loaders. Servicing customers ranging from domestic skip hire and kerbside collections, through to C&D / C&I waste from major commercial clients.



A separate division, Oakbank Plant Hire, also well established in the region, running over 75 machines, ranging from 1-30 tonne excavators that are available on a self-drive or operated basis, through to crusher and screener hire utilising a fleet of Terex Finlay products also supplied by Molson Finlay Scotland.

At their impressive waste processing facility located in the countryside in Mossbank, the team at Oakbank clearly take great pride in their work and the machinery they operate. With a well ordered yard providing clean separation of waste streams, they are able to process over 60,000 tonnes of waste per year.

Their latest investment, a Terex Ecotec TDS 820 slow speed shredder has helped them process multiple waste streams with greater efficiency as well as increasing the percentage of recyclables recovered. The mobile shredder is able to be tracked between areas of segregated bulky waste, timber, plastic and green waste, reducing the number of times the material is moved, therefore increasing their working efficiency.

The TDS 820 features customisable shredding programs that give operators the opportunity to configure the machine to their specific requirements, reduce material wrapping and maximise production. Designed with self-driven shafts, this double-shaft slow speed shredder is assured to give machine operators excellent performance in even the most challenging of applications.

Key features include hydrostatic drive that provides increased protection against contamination and allows for bi-directional shredding. The 2 metre long shafts are manufactured with a fully-welded tooth configuration, which makes for massive throughput and excellent material reduction. Its independent gearboxes enable each shaft to be run separately reducing material wrappage for effective shredding operations.

Additional features include the tipping feeder which increases the feed area. Hopper extensions provide increased capacity in bulky applications. The machine is manoeuvred via a robust tracked undercarriage making it a great solution for difficult terrain.

Oakbank Group Manager, John Reid said, "Although we have previously run a shredder, it was not in the same league as this new Terex Ecotec TDS 820. We are now able to process a much higher volume of material and achieve a more consistent product size.

For us this means savings at every stage of the process. We now have much better transport efficiency thanks to being able to get more material into each load. We get a better gate fee for our RDF material and unlike its predecessor, we can use the TDS 820 to process all of our waste streams."

With this shredder fitted with the 9-9-4 configuration shafts and a short tooth breaker bar, Oakbank have the perfect set-up to achieve their desired product size on all waste streams, whilst delivering strong throughput figures when producing RDF which makes up the bulk of their material.



John went on to say, "We have always had excellent levels of service from the Molson Finlay Scotland team on the crushing and screening equipment we have been running for some time. This made it a natural progression once they were able to supply and maintain the Terex Ecotec range."





Molson Finlay Scotland Sales manager, Darren Petersen said, "This is a great example of the benefits our customers are now able to take advantage of following the acquisition of Finlay Scotland by Molson Group in February 2019. The increase in product range, along with additional investment in after sales support systems, parts and coverage has really helped us improve the support we offer customers after a deal is done.

The "Single Source Supply" option we are now able to offer allows us to help our customers reduce the amount of time they spend managing their suppliers. In addition to saving them time, we can also help them save money by increasing their buying power. For Oakbank, this now means they have one call to make if they have a problem with their crushers, screeners, shredders or loading shovels and our expert team will handle it from there."



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Welcome to issue 66

Welcome to issue 66, which kicks off a brand-new year and our feature on 'Aggregate Crushing & Screening'. Supported by leading OEM's; it makes interesting reading and once again underlines the fact that the HUB4 bi-monthly magazine is the leading publication for the Recycling, Quarrying & Bulk Handling Industries.

In 2021 the HUB-4 magazine (free subscription to industry operatives) will continue to bring you all the latest news which can also be read on-line here: <https://hub-4.com/magazines>

Equally important is our free weekly e-newsletter which is distributed to our readers and is presented on-line here: <https://hub-4.com/pages/newsletter>

Our new media file with feature list can also be found here, either PDF download or page flip version: <https://hub-4.com/pages/advertise-with-us>

We have also introduced a brand-new section for 2021 – **New Product Features**.

This is on the website home page and is dedicated to new equipment launches and is also included in our weekly e-newsletter. It is a great platform for your launch and also includes bookable time slots so you can maximise on your launch.

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.

Positive about the forthcoming year:

With 2021 spread out before us one can only hope that we all get back to 'normal' and we can attend some shows this year which we have all missed. Rest assured however the HUB4 team will be out and about visiting new site installations and attending open days, all of course within the regulations!

It remains just to add one more thing and that is to wish all our readers and supporters good health, good luck and the very best for 2021.

John Edwards
Editor



March/April 21

**AGGREGATE WASHING
& SCREENING**

Editorial copy deadline 08-03-2021 Advert copy deadline 15-03-2021



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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.

MWS launches new Brand Identity

MWS Equipment evolves globally as profile and market grow

Due to a dynamic expansion and the re-alignment of McCloskey International's washing division, the business is pleased to announce a new brand identity that will support the evolution of this business unit and re-emphasize our commitment to the wet processing sector. The business will move forward under the new brand of MWS Equipment.

The professional profile of the washing division has grown and evolved over the last 5 years, and the new brand and alignment reflects a commitment to the future and to customers who seek leading edge products and services to grow their business.

In order to position the brand for long term success within its market, MWS Equipment will operate as an independent business unit of Metso Outotec, extending the brand's reach in delivering world class products and service globally.

The strategy is driven by partnership with organisations around the world at a regional level that are best suited to deliver tailored solutions and ongoing service to our customers.

The new design and colour scheme reflects the brand's maturation and evolution as an industry leader for not only its product offerings but also the impressive network it has built over the past few years.

Ben Frettsome, Product Line Manager, MWS Equipment, said: "I'm delighted with how our business has progressed in recent years. We have repositioned our route to market along with increasing our design and manufacturing capabilities. With the strength and depth in our leadership team, we are now aligning our brand to allow for the next chapter of our development and growth."

Fundamental to maintaining the reputation and trust the company has built within the industry, MWS Equipment's strategy is to partner with companies that have the expertise and specialized capabilities in application, installation and aftermarket support of wet processing equipment in order to deliver not just a product but a long term solution to the customer.

This continues to be driven by the design and engineering of smarter washing solutions that help customers build profitable and sustainable organisations.

Toni Laaksonen, Senior Vice President, McCloskey International, said, "The new brand identity is an exciting milestone. We continue to invest in our business through delivering industry leading products and adding maximum value to our customer experience."

Ben Frettsome added: "We are delighted to announce our new identity. The rebranding of MWS has been in development for some time and will now allow for the business to partner with the best suited organisations across the world.

"Looking ahead to 2021, we are very optimistic about the future of MWS Equipment and the strong position we are in going into 2021. We have an exciting list of product introductions and strong partnership announcements coming over the next few months."

For more information please visit:
www.mwswashing.com
or contact
marketing@mwswashing.com



New Stronger ElectroMax-Plus Overband Magnet



Bunting's ElectroMax-Plus Overband Magnet

The design objective of creating a more compact and powerful electromagnetic Overband Magnet led the Bunting engineering team to develop the new ElectroMax-Plus.

Bunting is one of the world's leading designers and manufacturers of magnetic separators, eddy current separators and electrostatic separators for the recycling and waste industries. The Bunting European manufacturing and product testing facilities are in Redditch, just outside Birmingham, and Berkhamsted, both in the United Kingdom.

Electromagnetic Overband Magnets use an oil-cooled or air-cooled wire coil to generate a deep and strong magnetic field. The electromagnetic force radiates from a coil wound around a steel core and mounted inside a steel box with a thick steel back-bar. This focuses the magnetic field in one direction: down towards the conveyed material. In operation, an Overband Magnet, suspended over conveyors, screens, and vibratory feeders, lifts and removes ferrous metals such as iron rebar and beverage steel cans.

Overband Magnets are a common feature on many mobile screens and crushers. In such applications, minimising weight and size is crucial and, subsequently, operators use standard Ceramic Ferrite or, less frequently, Neodymium Rare Earth Permanent Overband Magnets rather than Electromagnets. Neodymium Permanent Overband Magnets produce a strong but shallow magnetic force and often experience problems with belt and motor damage due to large ferrous metal clamping against the magnet block. The magnetic field of the light and compact ElectroMax-Plus is both deep and strong, enabling excellent separation performance at higher suspension heights. In addition, simply turning off the electromagnet releases any extremely large entrapped tramp ferrous metal. The shape and nature of this magnetic field means there is less wear to the self-cleaning belt mechanism (e.g. belt, motor gearbox, and bearings).

The new ElectroMax-Plus operates at a 600mm suspension height (the distance between the conveyor belt and the face of the Overband Magnet), up from 450mm on a standard



ElectroMax. At a suspension height of 500mm, the ElectroMax-Plus is over 105% stronger (in terms of Force Index) than the equivalent ElectroMax. This incredible additional magnetic force removes small tramp ferrous metal commonly missed by permanent Overband Magnets.

The latest ElectroMax-Plus provides companies in the recycling, quarrying, and mining sectors with a powerful and compact solution for separating tramp and secondary ferrous metal from conveyors.

"Companies supplying mobile recycling equipment are requesting stronger and lighter Overband Magnets," explained Adrian Coleman, the General Manager of Bunting's Redditch operation. "The new ElectroMax-Plus provides a real alternative to Neodymium Rare Earth Overband Magnets. There is the requested additional magnetic strength, without the operating problems [as experienced with some Neodymium Rare Earth Overband Magnets]."

The new ElectroMax-Plus extends Bunting's comprehensive range of Overband and Suspension Magnets. In addition to standard sizes, Bunting also designs and manufactures bespoke models which are application specific.

Additional information on metal recovery and separation using the ElectroMax-Plus Overband Magnet, ElectroStatic Separators, Magnetic Separators, and Eddy Current Separators is available on the Bunting website - www.mastermagnets.com

Eagle Iron Works standardises portable washing solutions to introduce the Eagle Trek line

Eagle Iron Works (EIW) has offered customers reliable, easy-to-operate equipment mounted on portable chassis to handle washing and classifying applications for many years to meet customer requirements. Now EIW is proud to introduce their Eagle Trek line of portable wash equipment, which includes the same well-known solutions and proven Eagle equipment designed into a standard array of sizes.

If your site is looking to produce aggregates to specifications using a highly compact, quick to set up, and easily moved unit, the Eagle Trek line has what you need. Being able to move quickly from site to site means more time operating, which increases your productivity and profit. EIW is currently offering two standard portable lines available in a wide range of sizes depending on your need. The first is the Eagle Trek TSP, which is an EIW classifying tank over top of a double screw washer.

EIW's Water Scalping-Classifying Tanks and rebinding controls have proven themselves through the years in many plants that continue to provide excellent results throughout the world. Combined with an Eagle Double Screw Fine Material Washer, two typical construction grade sand specification products can be made simultaneously.



The second unit, known as the Eagle Trek SSP, contains a horizontal screen and a double screw washer. For the first time, this plant includes an Eagle triple shaft horizontal vibrating triple deck screen, which is able to size your washed rock products for direct stockpiling. Integrating with an EIW CONDOR (standard) or Classic (optional) Double Screw Fine Material Washer, the Eagle Trek SSP can size and wash three aggregate products and one sand product.

Based on years of experience with portable plants, all Eagle Trek plants meet Department of Transportation to be easily transported. All Eagle equipment means that you can work with Eagle dealers directly to receive complete service and support. To learn more about these EIW portable units please visit www.eagleironworks.com or contact your local sale representative.





150 TPH CDE Wash Plant



Due to recent developments at our Shire Oak site in Walsall Wood we are now in position to sell our C & D wash plant that has kept us going with our quality virgin & Recycled sands and gravels for the past seven years, the plant has been continually maintained throughout its life by ourselves with original CDE parts and pumps maintained by a Weir Minerals service contract.

The plant currently produces blended products

- 0-2mm Building Sand
- 0-4mm Concrete sand
- 10mm Gravels
- 20mm Gravels

KEY PARTS

- **M2500 - Purchased 2015**
With CDE Vibrosync Dewatering screen
Dual Cyclones
P2.75 Sizing Screens (PU)
2 Over band Magnets
- **Aggmax (Pozzato) 150 Logwasher - year 2010**
H2-60 Infinity Sizing Screen
2 x 156 Stocking Conveyors
- **CDE CFCU (Counter Flow Classification Unit) Purchased 2017 upgrade**
Vibrosync Dewatering Screen
Dual Pass Cyclone Technology
- **A400 Thickener Tank**
- **Aqua Store**
- **CDE Control Cabin with Flocc Station**
- **500 KVA Generator**
Serviced every 1000 hrs
- **Recycling hopper with live head and powerpack**
- **CDE Workstore with £25000 (approx.) of stores**
Consisting of various bearings/Rollers and PU media

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Easy handling and compact design of Rockster's Mobile Crusher were crucial customer choices

Since summer 2020, Rockster's R1100DS impact crusher has been surrounded by emerald green mountains and has been the perfect contract crusher for Kebao Construction Machinery Leasing in Chongqing, China.



Rockster R1100DS in China: Feeding material granite with a diameter of up to 1000mm. Fine, earthy material is removed by the pre-screening and the side discharge belt before it even reaches the crushing chamber.

Amidst the Daba Shan, Wu Shan and Dalou Shan mountain ranges, the megacity of Chongqing was built on extremely hilly terrain with very steep streets, which is reflected in its name - "City of Mountains" (Shancheng).

Precisely these circumstances played a major role why a Rockster crusher is the most optimal for the terrain. Kebao Construction Machinery Leasing, from district Wanzhou in Chongqing, has been active in construction machinery rental for 10 years and has grown steadily with now 20 employees on board. The company knows the requirements of their customers very well and has a wide range of construction machinery including a jaw crusher and a scalping screen.

Easy transport was an important purchase criterion

For Kebao CEO, Ran Maohe, the new crusher had to be easy to transport, reliable and ready to use quickly: "Thanks to the compactness of our new R1100DS impact crusher, we are able to transport the machine, including the screening system, over our winding mountain roads using an ordinary flatbed truck. The crusher set-up time is extremely short due to the saved settings. Our machine operators are also able to operate the crusher very quickly thanks to the intuitive and simple handling. We only rent our machinery with our own trained staff, which of course benefits the efficiency and longevity of our machines."



The R1100DS crushes granite from a diameter of up to 1000mm to 0-32mm final product.



CEO of Kebao Construction Machinery Leasing Ran Maohe in front of his new 37-ton Rockstar R1100DS impact crusher in Chongqing, China.

Hydrostatic drive makes a big difference in China

The fact that these hydrostatically driven machines are extremely easy to handle was another important point for Ran Maohe when choosing the Rockstar crusher. "My operators are familiar with this kind of drive system from our excavators and wheel loaders; they are very familiar with hydraulic systems. I particularly like the crusher overload protection," says the entrepreneur. The pressure of the hydrostat always adapts to the power requirement of the crusher. This means that there are no blockages due to a lack of drive force and the crushing performance is consistently high.

Excellent performance even on hard granite

Maohe is very pleased with around 40,000 tons of final material per month. "At the moment we are mainly crushing very hard granite, basalt and also sandstone. The materials come from the surrounding quarries and are processed to minus 32mm and further screened down to minus 5mm,

5-10mm and 10-32mm. We obtain three perfectly defined product sizes with excellent quality. Our customers are extremely satisfied."

Expansion of application areas with the mobile impact crusher

The new Rockstar crusher is of course not only used for processing natural stone, but also for recycling demolition debris. "In recent years, China has generated more than 1.5 billion tons of construction and demolition waste annually, with a recycling rate still below 5%. By recycling with a crusher like our R1100DS, most of this construction debris could be reused, the positive effect on the environment and economy would be enormous," Ran Maohe is convinced. He emphasizes his plans to additionally specialize in the production of waterproof substructure materials. "Relevant departments of the Chinese government have passed laws that require construction waste to be properly processed so that it can then be used as recycled building materials, mainly for substructure projects. This is our great opportunity to contribute to our land as owners of such an efficient, productive and cost-effective crushing plant," says Maohe.



Crushing and screening: Final material in 3 defined sizes. Kebao's customer sells the final products mainly to construction companies.



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mclanahan.com

Bucket Bundie enhances efficiency and safety for SRC

Sewells Reservoir Construction Ltd T/A SRC Aggregates, is an independent, family owned business providing aggregate solutions.

SRC operates state of the art recycling equipment, specialising in waste disposal services for inert, non-hazardous waste, as well as hazardous materials.

SRC recently added two Bucket Bundie Fuel Bowzers to their fleet provided by manufacturers and suppliers Ace Plant.

Ace Plant, home of the 'Bundie Bowser' fuel storage range, are a plant hire company based in Milton Keynes 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.

The two Bucket Bundie units were purchased to further enhance SRC's efficiency, safety and ease on site. Prior to the purchase of these new units, SRC utilised static tanks for fuel storage; which had to be moved around site with a 4 leg drop chain, as well as mobile units being towed around site.

Brett Hallworth, Plant Manager at SRC, originally noticed the Bucket Bundie Fuel Bowser on www.aceplant.co.uk and could see the immediate benefits these units would have on site. By utilising the Bucket Bundie Fuel Bowzers, this allowed a much easier, quicker and safer fuel delivery method to crushers and other items of plant and equipment. These units removed the need for lifting chains as well as the need for the operator to leave the safety of the machine cab to attach said chains. The operator can simply drive into the specially shaped lift legs, re-position the bowser and continue with the job in hand.



The first unit is currently being utilised at SRC's Martell's Quarry near Colchester (as pictured), the second unit is based on a crushing / recycling depot in East London. Brett said, "having the two units on two different types of applications has shown that there are various safety, time and cost benefits for using the Bucket Bundie Bowser". Brett also really liked the ability to have the units painted in their own company colours (at no extra cost) to keep in line with the rest of their fleet.

The Bucket Bundie Bowser is available in three different capacities: 450L, 1000L & 2250L with SRC opting for the larger 2250L option.

The next chapter in the Ace Plant Bucket Bundie Bowser story is the ability to deliver both Diesel and AdBlue in one trip from the same bowser. This can be seen within other site tow, road tow and static units within the range but not quite yet in the Bucket Bundie range.

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



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Discover the range at mccloskeyequipment.co.uk/cones

BooBoo choose Blue for their Powerscreen Crushers



Aitch Demolition, founded by Harry Allen, have been trading for over 30 years. They specialise in complete demolition works, from

single houses through to office blocks, factories, and water towers. With Aitch Demolition establishing itself as a key player within the industry, Harry started to become inundated with requests for hiring demolition equipment. He then took the decision to split his business into two companies, which is how BooBoo Plant Hire was born.

Both Aitch Demolition and BooBoo Plant Hire are family run businesses with Harry bringing in both his son and daughter into its operations. They currently employ 60 people across the group and had a turnover of around £7 million last year. BooBoo only supply the absolute best Mobile Crushers, Excavators, High Reaches and Attachments, and are able to provide the full, bespoke demolition package depending on the customer's needs. They also have a robotics division within the business, which includes Small remote-control excavators and remote-control skid steers.

Blue Machinery Central have been supplying Powerscreen Crushers to Aitch Demolition/BooBoo Plant Hire for over 10

years. This was no different in 2020, with them taking on two new Premiertrak R400's and a Metrotrak, which were all sold with stage 5 engines to comply with the European laws on emission systems. They also have a new 2021 Premiertrak R400 on order which is due in April 2021.

Owner of BooBoo Plant, Harry Allen offers his thoughts on why he opted for Blue and Powerscreen for his new crushers: "We have had a good working relationship with Blue Machinery Central for a number of years now and we also feel that Powerscreen offer the best pound for pound crusher on the market. Because we opt to use the best crushers, it means our initial costs are higher than some of our competitors, however our crushers can be up to three times more efficient, which can work out to be a cheaper option in the long run. Whenever we come to buy a new crusher, we always take a look at the wider market to see what is available, but ultimately, we always come back to Blue, who also offer rather good deals on machine trade ins when we want to refresh our fleet."

Blue Machinery Central Sales Manager, Rory Smyth; "The Premiertrak R400X and Metrotrak are ideal for Aitch's/BooBoo's line of work in Demolition and Plant Hire. Their continued trust in Powerscreen equipment and Blue Machinery for over ten years speaks volumes and we look forward to continue working with them in the future."

BooBoo Plant Hire pride themselves on making sure that the job gets done right, which is why they insist on using Powerscreen Crushers. BooBoo's winning combination is their experienced, top quality operators and industry leading crushing equipment.



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**CAN YOU AFFORD NOT TO TALK TO US
ABOUT YOUR CRUSHING & SCREENING?**

TEREX® FINLAY launch mammoth LJ-130 Hybrid Jaw Crusher

The Terex® Finlay LJ-130 hybrid jaw crusher is the largest mobile jaw crusher in our range and has been developed for large-scale quarry and mining operations. The machine can operate as standalone primary crusher or integrated into a mobile or static crushing and screening plant.

The machine incorporates a Terex® 1300 x 1000mm (51" x 39") high performance electrically driven single toggle jaw chamber. The large chamber inlet opening has been engineered to accept the coarsest feed including large boulders in the feed material and the chamber cavity depth of 2.3m (7' 5") provides high reduction ratios and maintains an efficient material flow through the plant.



For ease of transportation the machine has been engineered with a compact operational footprint and can be split down into two transportable components without the need for heavy crane assistance on site for setting up, tearing down and transporting between locations.

The machine features a 13.5m³ (17.64yd³) hopper with an integrated pan feeder and heavy duty VGF feeder with automatic power monitoring to regulate and automatically increase or decrease material flow to prevent overload and ensure continuous choke feeding of the jaw chamber for optimum and uninterrupted productivity.

The machine can be powered either by the integrated 500kVA genset powerpack configuration or connected to an external power source. Both power options provide operators with significant power, servicing and maintenance cost savings in direct comparison to a diesel/ hydraulic powered plant.

"The LJ-130 hybrid jaw crusher has been developed to provide a robust and powerful mobile solution for operators seeking a highly productive machine for the most demanding and coarsest hard rock and ore applications. The Terex 5139 crusher is the largest jaw chamber we put on our tracked plants in terms of depth, width and length. The large cavity volume enables more material to be processed along the full length of the chamber, maximising productivity even with the coarsest unprepared material at the primary crushing stage. The LJ-130 jaw crusher is perfectly complemented by our existing C-1554 cone crusher and large capacity screens such as our 984 horizontal and 696 inclined screeners models for operators looking large capacity mobile crushing and screening train solutions." said Alan Witherow, Terex Finlay, Product Manager.

Key features:

- The plant's electrically driven power systems provide significant cost advantages and environmental efficiencies.
- The large feed width and gape enables the crusher to accept larger and coarser material reducing the need for hammering of oversized product in the virgin feed material.
- Automatic variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity.
- High powered electric drive ensures precise chamber controls and reverse functionality for clearing blockages and assisting in construction demolition, asphalt and recycling applications.
- For ease of commissioning and transportation the machine can be dismantled into two separate components without the need for cranes.
- T-Link telematics hardware and software along with free seven year data subscription are fitted and installed as standard.





ElectroMax Plus Overband Magnet

Lightweight, Compact and Stronger



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McLanahan's Extensive Crusher Line

Aggregate operations looking for crushing equipment need to look no further than McLanahan Corporation. An extensive line of both primary and secondary crushers are available for a variety of applications.

Jaw Crushers

McLanahan's Universal Jaw Crusher was first patented in the United States as an overhead eccentric, single-toggle jaw crusher in 1906. It has since earned a reputation as a hard rock crusher and is suitable for the toughest, most abrasive material including granites and basalts. The Universal Jaw Crusher is typically capable of a 6 to 1 ratio of reduction when used as a primary crusher. Available in many model sizes, each crusher is designed with a deep crushing chamber for optimum nip, as well as a steep toggle angle for maximum crushing force. The heavy-duty pitman and shaft arrangement offers field-proven reliability and extreme durability.

Also available is the Universal H-Series Jaw Crusher that features adjust-on-the-fly technology. This technology provides hydraulic clearing when needed, allows an operator to make adjustments while continuing operation and automatically resets when tramp iron passes through the crusher.

Primary Impact Crushers

Currently McLanahan offers five lines of horizontal shaft impactors. They are available in multiple sizes to suit your specific crushing application. The first is the New Holland-style primary impact breaker and the MaxCap Primary. These provide a solution to reduce quarry shot and ROM materials at rates exceeding 2,000 tph. McLanahan also offers VersaCap P-Series Impactors for heightened portability as a primary crusher. The VersaCap R-Series is also designed to accept large top size in highly friable materials, and will allow for single crusher reduction to 1-1/2" minus product. For limestone and similar materials, the NGS Impact Crusher is offered as a secondary impactor, which is capable of producing construction grade aggregates or minerals of like size. These five lines of horizontal shaft impactors are available in



multiple sizes allowing McLanahan to offer the most appropriate crusher for your specific application.

McLanahan Impact Crushers are found in a wide variety of applications. The most common is processing limestone, but any sedimentary stone and some metamorphic stone are suited for impact crushing. Impactors also operate in manmade materials with similar characteristics as sedimentary stone. Even in some rather abrasive materials, like steel slag and demolition concrete rubble, Impactors are the favored means to attain a repurposed and value-added product. In quarry operations, the use of Impactors also provides a means to remove deleterious minerals. If the feed material includes soft stone, the impact force will reduce the soft stone finer than the harder rock. A screening process will then allow the soft deleterious material to pass through and out of the flow to the rest of the plant.

Best of Both Worlds

One of the primary reasons McLanahan Corporation and Anaconda Equipment joined forces in 2019 was for both companies to be able to expand their product offering and global reach. In 2020, Anaconda announced the addition of their unique track-mounted J12 Jaw Crusher and I12 Impact Crushers, which feature McLanahan's Universal crushers. The J12 Tracked Jaw Crusher is fitted with a 44" (1100mm) x 26" (700mm) direct hydraulic drive Universal Jaw Crusher. The I12 Tracked Impact Crusher is fitted with a fabricated 43" (1090mm) diameter 4-bar rotor on a 45" (1140mm) wide Universal Crusher Impact crusher. The unique part of these two new track crushers is that they are on a generic chassis that allows for the placement of either crushing chamber, giving dealers and customers immense flexibility. The machine can be converted from a Jaw to an Impactor and vice versa in minimal time.

From stationary to portable, McLanahan has a crushing solution for you.



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Dual Power models allow you to operate your machine on diesel fuel or an external electricity source



Increased uptime

depending on set-up, machine uptime can be increased due to reduced refuelling and engine servicing



Can be used in a variety of applications

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Molson appointed Evoquip dealer

Molson Group have been appointed as the sole UK distributor by Evoquip for full range of compact crushing and screening equipment with immediate effect, including the provision of genuine spare parts and maintenance...

The Evoquip range starts with the Bison 35 Mobile Jaw Crusher, capable of outputting up to 30 tonnes per hour and goes up to the Cobra 290/R Mobile Impact Crusher capable of outputting 250 tonnes per hour. The compact size of the Evoquip machines will complement the "Single Source Supply" offering from Molson which includes other leading brands such as Kobelco, Hyundai, Terex Finlay, Sennebogen, Terex Ecotec, Terex Trucks and many more that are available throughout the UK.

With the Evoquip range perfectly suited to projects that require a smaller footprint of machine, customers in the Construction, Demolition & Recycling, Quarrying, Plant Hire and Agricultural sectors can now source the full Evoquip range of crushing and screening machinery, safe in the knowledge it is backed up by the tried and tested Molson After Sales Support.

Molson currently operate from 13 service locations strategically positioned throughout the UK, ranging from Cornwall to Inverness. With over 75 fully equipped Mobile Service Engineers and over £6m of parts in stock, customers can rely on the Molson After Sales Service when they need it most.

The Evoquip range will be available from Molson Finlay in England and Wales, whilst Molson Finlay Scotland will represent the brand in Scotland.

Robin Powell, joint Managing Director of Molson Group, commented: "Evoquip products are renowned for their versatility and durability. The broad range of crushers and screeners offered by Evoquip perfectly complements our existing range of Terex Finlay crushers and screeners. Furthermore, this solidifies our position as a "Single Source Supply" option to the Construction, Demolition & Recycling, Quarrying, Plant Hire and Agriculture sectors".



Barry O'Hare, Evoquip Business line Director commented: "Molson has generated impressive growth across the UK and this, along with the outstanding levels of customer service that they deliver, made it a natural choice to appoint them as the distributor for Evoquip. We see the UK as a key market and look forward to working with such a progressive and proven dealer moving forward."



New VSI-crusher unit by Swedish Maskin Mekano

Demand for highly processed crushed products (like cubical aggregates, road base or prime manufactured sand) with high and consistent quality is growing steadily. That is why Maskin Mekano has launched an easy-to-move VSI (Vertical Impact Shaft) crusher on high jacking legs.

The VSIH T7 is part of Maskin Mekano's new modular range, which is characterized by flexibility, safety, and electric operation. The crushing plant is a conveyor in/conveyor out machine but also has an on-board closed-circuit conveyor that makes it compatible with Maskin Mekano's final screen SH 1503 (it can also be docked with a variety of other three-deck screening plants on the market). The crushing plant VSIH T7 has sockets for interlocking and connecting emergency stop loops to connecting machines in the process.



- **VSI crusher by Techroq**
- Capacity about 200 tonnes/h
- High hydraulic jacking legs
- Closed circuit conveyor on-board
- Catwalks and foldable stairs with railings
- Sockets for interlocking
- Connecting emergency stoploops
- For towing on site there is a lifting hook and wheels in the rear

The Maskin Mekano modular range also includes a feeding station, a cone crusher unit, and final screening units.

Steve Johnston



Close Brothers Asset Finance funds new crushing and screening machinery

Close Brothers Asset Finance has provided Johnston Quarry Group with a Coronavirus Business Interruption Loan Scheme (CBILS) backed facility for the purchase of specialist crushing and screening machinery for the firm's new state-of-the-art limestone quarry in Lincolnshire.

Johnston Quarry Group - the largest suppliers of quarried and mined block stone in the south of England - own and operate multiple quarries across the UK, supplying over 60,000 tons of block stone annually to their customers.

The screener will process the aggregates and sand while the crusher crushes the material to the desired size, allowing for a range of customer specifications to be met.

Andrew McCulloch, Area Sales Manager for Close Brothers Asset Finance's Construction division: "I'm delighted we've been able to support Johnston Quarry Group because, despite the pandemic, demand for their products and services has continued to grow strongly and the new equipment will only serve to strengthen their proposition.

"Having seen the machinery in action, I know it's already boosted productivity providing tremendous value for the firm as they look to get the most out of their new quarry.

"What's impressed me most during my site visits is how professionally the quarries are run - for example, every vehicle that exits the quarry is cleaned of any contaminants by high-pressure washers and weigh bridges ensure no over-loading."

Steve Johnson, Quarry Manager, added: "It's been really nice working with a company that wants to get on who you can actually pick up the phone to and to talk to someone to sort things out.

"Close Brothers Asset Finance aren't 9-5 - Andrew is always available, and you can talk to him rather than rely on email, which you never know has been read or has ended up in someone's junk mail folder.

"To us, this matters a lot because people matter - we get to establish a relationship, which makes it easier to do business.

"Industry knowledge is also really important, which is where Close Brothers Asset Finance really stands out. They've been very good for us, clearly understanding what we wanted to do and coming to see us in person rather than just doing a deal remotely."



EDGE Innovate launch a new versatile screening solution with the EDGE SM186 Wheel Mounted Screener

A global leader in the design and distribution of a range of equipment used in the quarrying, port handling and recycling industries, EDGE Innovate has revealed their latest product offering from its ever-popular recycling product range.

The EDGE SM186 wheeled mounted screener is a highly efficient screening solution designed for the most difficult and demanding of applications including recycling, soils, aggregates, compost, and demolition waste.

With increased throughput, high efficiency, and quality end products; the EDGE SM186 mobile screen incorporates a robust 18'X6' (5.4X1.75m) two deck screen with interchangeable flip flow and conventional scalper bottom decks. This flexibility combined with numerous screen media options and configurations allows the EDGE SM186 to process a wide range of materials and to tackle screening applications that other conventional screens cannot.

Impressive design features include, a low-level feed hopper designed to accept loads from all three sides without the need of construction ramps, 2- or 3-way splitting configuration, hydraulic folding discharge conveyors to facilitate the quick transition from operation to transport and a fully integrated power unit with large service access. A user-friendly control system with sequential start/stop functionality provides exceptional operational performance and unit safety. Fitted with a tri-axle bogie with an ultra underslung suspension complete with fifth wheel hook-up and air brakes; the EDGE SM186 is exceptionally easy to transport between sites with redeployment taking a matter of minutes.

Operators can choose from a range of different screen boxes including EDGE Innovate's award winning flip flow screen, scalping screen and rinser screen. Optional power sources include, diesel/hydraulic, diesel genset or direct electric. The EDGE SM186 is also be available in a static chassis format.



Signature Features:

- Robust interchangeable 18'X6' (5.4X1.75m) 2 deck screen.
- Choose between 3 different screen box types to suit your application.
- Intelligent modular top deck system allowing numerous media types to be installed side by side including 3D screen media.
- Screen-box jack up functionality allows for easy operator access.
- A low-level direct feed hopper facilitates side and rear loading via wheel loaders without the need to construct ramps.
- Both side conveyors can be repositioned on any side of the machine to suit site requirements.
- Fully mobile fifth wheel hook-up with hydraulic folding discharge conveyors enables quick and easy transport from site to site.

For more information on EDGE's new mobile screener, please visit; www.edgeinnovate.com

Is a One-Stop Training Service Right for Me?



At Mentor, we have always understood how a simple and efficient route to receiving all onsite training through a single provider can be beneficial in many ways, however, with the current pandemic ascending in the UK, we understand now more than ever how important proficiency and efficacy is as we see an increase in department/team merges, staff redundancies and a tightening of the company budget.

With many businesses lacking the internal infrastructure to support these large business changes such as dedicated training teams, the 'one-stop training shop' may seem like the correct answer to many questions, however, ensure you understand the key considerations to think about before signing on that dotted line...

- **How well does your provider know your industry?**

Many Managed Service Providers will be looking to help out during these critical times, however, do not just go with the first company you see. Does your provider understand how your industry works and the business operations? Certify the knowledge or your provider and put them to the test.

- **Do you have any case studies and references from the provider?**

Let the case-studies do the talking. Ensure you have some quality and in-depth references from your provider and ask yourself the



question 'Can this business meet my training needs?'. Before signing any agreements, find out how the company works and if their training methods will fit in with your business style and your employees.

- **Are you still receiving a high level of quality?**

Are you aware of how your provider will be driving down the costs of your overall training needs? Don't let quality be compromised for a cost reduction. It is also crucial to find out if the business is operating in the same way now as they were pre-COVID; never sacrifice quality as this could be the difference between efficient machine use or multiple site accidents that could have been avoided through better training standards.

A Managed Training Service could be the answer to receiving your training delivery correctly and efficiently during these challenging times, but ensure you understand the internal conditions and limitations from your provider. Take advantage of our expertise and speak to us about training today – 01246 386900.

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Evoquip launch the versatile Falcon Range



Evoquip® has launched the Falcon™ Range of finishing screens to its product portfolio. The Falcon range will consist of the Falcon 1220 and Falcon 1230, providing a solution for scalping, screening, and stockpiling in self-contained units. Both models are available to order now and will be shipped to customers in early 2021.

Barry O'Hare, Business Line Director, said "This enhances the Evoquip product offering and results in us having a more comprehensive product portfolio that will improve our versatility and make us more competitive in the marketplace. We are confident that these highly aggressive finishing screens will open up new opportunities for Evoquip customers globally."

The Falcon Range with its exceptional screen angle range provides efficient classification of fines and is ideal for multiple applications and processing materials including sand and gravel, crushed stone, coal topsoil and demolition waste. In keeping with the Evoquip range, both the Evoquip Falcon 1220 and Falcon 1230 are compact, easily transported machines and offer operators rapid set up and tear down times.

The Falcon 1220 features a 3.65m x 1.5m (12' x 5') double deck incline screen with remote tipping reject grid, hydraulic screen tensioning of bottom deck and three on board hydraulic folding conveyors as standard, with the option of adding the double deck vibrating grid.

The screenbox on the Falcon 1230 features three inclined decks (top and middle deck: 3.66m x 1.52m (12' x 5'), bottom



deck 3.00m x 1.52m (10' x 5') giving a large screening area of 170ft² to provide efficient, high-capacity screening - even at small fractions. The fourth product conveyor has variable tilt and side slew to accurately discharge material for recirculation and stockpiling. The screenbox features quick wedge tensioning (top and middle deck), access holes and bottom deck hydraulic tensioning system to reduce time required for mesh changes.

The Falcons come with T-Link telemetry system fitted as standard, providing the customer with real-time information on the performance of their machine, meaning effective machine management and maximising uptime.

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AGG PRO celebrate 25 years in business

Leading Gipo, McCloskey International and MWS Washing Systems dealer AGG PRO are pleased to celebrate their Silver Anniversary in the industry in 2021. From their HQ situated in Birmingham UK, they provide top class machinery, after sales service and dedication to their customers far and wide.

Agg Pro - a bit of history

Geoff Caves, MD, and owner of Agg Pro, began his career at the young age of 16 in the construction industry. In the early days, Geoff worked on maintenance and manufacture of quarry, asphalt, and concrete plant along with mobile equipment, his commitment saw him typically working 7 days a week till the job was done!

In 1996, Geoff decided it was time branch out on his own, founding Aggregate Processing & Recycling Ltd. Initially focussing on service and maintenance, leading from his background knowledge, although small equipment dealerships were soon added to the portfolio. Supply of equipment thrived due to the level of dedication and support which has been the company focus throughout the years for their customer base.



Following the initial successful years, 2002 saw the exciting agreement of an exclusive dealership with Swiss company Gipo, manufacturers of top-quality mobile crushing and screening equipment. With Geoff's experience and knowledge, Gipo identified he would be the ideal candidate to promote and sell their extensive range in the UK and Ireland along with his team offering only the best aftersales support and service. The agreement paid off with a \$1,000,000 triple machine deal within the first few months with a major Blue Chip UK company, increasing Agg Pro's profile within the industry and consequently leading to an increase in machinery sales. Over the years the relationship between Gipo and Agg

Pro has continually grown and is still increasing today, now also incorporating sales in the Middle East and Africa.

During 2008 the company agreed exclusive territories with another top machinery manufacturer, McCloskey International Ltd, covering England, Qatar, UAE, Oman, Bahrain, Kuwait and still service these markets today. Agg Pro sells and supports a very high turnover of McCloskey International machinery every year around the globe. McCloskey International Ltd's range of products opened the door to a wider range of great customers and varied applications.



Where we are now

Over the past 25 years, Agg Pro has increased their facility to accommodate workshops of 40,000 square feet, multiple offices and two large storage yards at their HQ in Tamworth. Equipped with cranes, welding equipment, fabrication amenities and a top team of experienced, dedicated engineers, Agg Pro are fully prepared for machine repairs, maintenance, and servicing.

Our company philosophy is simple, **look after our customers.**



Agg Pro understand the importance of having a team you can rely on, therefore we ensure our customers receive the best after sales from us, whether they need advice, an on-site engineer or machine parts – we are on hand to help. We also carry an extensive parts supply, and if we do not have it, we will do our best to source it as promptly as possible!

Our valued customers have given us the opportunity to provide our services which is of great importance to us and has contributed to our growth and development.

With continuous hard work and dedication, Agg Pro have established a well-earned, respected reputation in the industry. Going from strength to strength, our sterling Sales team continue to provide top quality new and used machinery, using their extensive industry knowledge.



You can contact the team on +44(0)1827 280139 or email: sales@agg-pro.com to discuss how we can help www.agg-pro.com

Testimonials

"We have always received phenomenal after service by Agg Pro, whether we need spare parts or an engineer, they will try their hardest to provide a same day service or next day if same day isn't possible. We trust Agg Pro to provide excellent customer service and after care."

Ben Dann – Dann Environmental Services Ltd

"We are always guaranteed a personal touch from Agg Pro along with unrivalled back up and after sales service."

N Jagger Ltd

'Agg Pro have always provided us with great customer service, if we need a fitter 'early doors' we can always be assured they will be on site and ready to go. As a business Agg Pro offer us reliability and are prepared to go over and above. If we need spare parts for our machinery at short notice, the team will do their best to get them to us as soon as possible, they have even had parts shipped from overseas, so our machinery is back up and running in good time. If they can get the parts to us the same day, they always do their best. Agg Pro know the importance of keeping all machinery running and minimizing downtime, always doing their best to help us.'

Gary Harby, Recycling Manager, Oakfield Construction



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Haver & Boecker Niagara highlight the advantages

Haver & Boecker Niagara highlight the advantages of pairing eccentric screening technology with polyurethane screen media. The combination of the eccentric machines like Haver & Boecker Niagara's Niagara F-Class and Niagara N-Class with polyurethane media such as Ty-Max and Ty-Deck leads to more uptime, fewer screening problems and higher screening efficiency.

"We pride ourselves on providing our customers technology that advances their operations' productivity and profitability," said Karen Thompson, president of Haver & Boecker Niagara's North American and Australian operations. "Though each of these two technologies are highly beneficial on their own, their benefits dramatically increase when combined. The result for our customers is less downtime and better screening."

Advanced eccentric screening technology implemented by Haver & Boecker Niagara, combined with the benefits of the manufacturer's polyurethane media reduces pegging and blinding; handles high impacts better; improves screening action and increases screening efficiency; and lessens vibrations transmitted to the structure.

Eccentric screening optimizes vibrating screens for handling heavy-duty applications, such as classifying and scalping. The eccentric shaft design forces the screen body to follow the shaft movement. While it travels upward, the counterbalance weights move in the opposite direction and create an equal

force to that generated by the body. As a result, the forces cancel each other out while generating a consistent positive stroke that minimizes structural vibration and handles material volume spikes without losing momentum. This leads to the machine transmitting fewer vibrations to the structure and allows for longer component life. Additionally, the design creates a self-cleaning action that reduces blinding and pegging while improving overall screening efficiency.

Haver & Boecker Niagara's polyurethane media offers the best combination of open area and wear life for both wet and dry applications. It is poured open cast, resulting in 1.5 to 2 times longer wear life than injection-molded products sold at comparable prices. In addition, open cast polyurethane permanently hardens when cured to maintain its chemical properties to improve wear life. Injection-molded screens can soften when the temperature rises during screening, resulting in shorter wear life. Some polyurethane media features tapered openings to reduce the risk of pegging, and the flexibility of the material allows the screen media to resist blinding and pegging.

Operations can choose wear liners for improved screen media protection and even higher performance and longevity from their machines. Liners for vibrating screen cross beams are also available.



Sustainable Solutions for Washing, Crushing & Screening

PowerX Equipment are committed to finding sustainable solutions for crushing, screening, and washing of aggregates. They are continually reviewing their equipment options and have recently added the new Powerscreen® Hybrid range to their product offering.

The Powerscreen® Hybrid range has been designed to give customers alternative energy options to operate their range of crushing, screening, and conveying equipment. The Hybrid Machine range has been dramatically enhanced to include more fully electric crushers and screens as well as models powered by innovative combinations of diesel and electricity. These options offer a choice of which fuel to use, depending upon cost, location, and availability.

Hybrid machines will be of particular interest for those who operate in an area where electricity is more cost effective than diesel fuel, where diesel engine noise is unwanted or on sites where electricity is the preferred energy source.

There are many benefits of switching to hybrid equipment. In addition to the reduced environmental impact of using diesel as the sole fuel source, operating costs can also be reduced by lowering fuel consumption. Depending on set-up, machine uptime can be increased due to reduced refuelling and engine servicing.

Hybrid Crushers

The Powerscreen® Premiertrak 420E Jaw Crusher is a mid-range crusher used in

recycling, quarrying, and mining applications. The crusher features a 1070mm x 760mm (42" x 30") single toggle jaw chamber. As part of Powerscreen's hybrid range, the 420E has been designed to give customers alternative energy options to operate on site.

The Premiertrak 600E Jaw Crusher is designed for large scale operators who desire high production in recycling, quarrying, construction and demolition, and mining applications. Both the 600 and 600E models come equipped with the high performance 1200mm x 820mm Terex chamber. The 600E comes complete with an onboard diesel generator. This machine can be powered from the generator or from an external power supply, with sufficient excess power available to run a second machine (such as a screener).

The high performance Powerscreen® 1000E Maxtrak Cone Crusher offers operators the flexibility to power the plant either by mains electricity or an on-board genset power-pack. Either power option presents the operator with significant power along with service and maintenance cost savings. This energy efficient and productive machine incorporates the proven 1000 Automax Cone Crusher with direct electric drive, automatic tramp relief, and hydraulic closed side setting (CSS) adjustment.

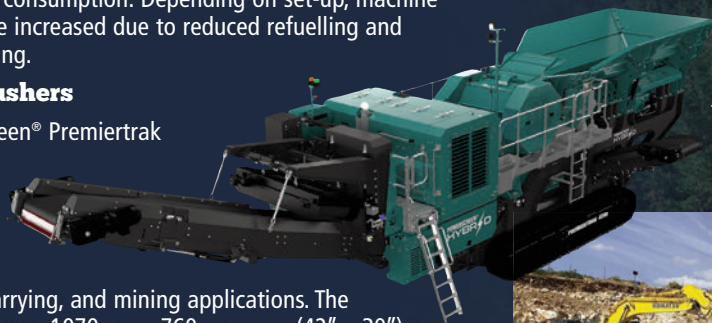
Hybrid Screeners

The Powerscreen® Chieftain 1400 is one of Powerscreen's most popular screening products and is ideally suited for small to medium sized operators and contractors who require a versatile product capable of operating in a number of applications such as sand and gravel, aggregates, and



recycling. User benefits include hydraulic folding conveyors for a quick set-up time, screen walkways and access ladders for ease of maintenance, and a drop-down tail conveyor to aid screen media changes. The Chieftain 1700 is also available as a hybrid.

The Powerscreen® Chieftain 2100X is designed for medium to large scale operators who require large volumes of high specification product. The screenbox can be finely tuned to suit the application with its adjustable stroke, angle, and speed. Featuring quick set up times and maximum mobility, low ground pressure tracks - an operator can have the unit operational in minutes.



Serviceability is a priority on the Chieftain 2100X with its transverse power unit arrangement and a drop-down fines conveyor facility to aid bottom deck mesh changes. The Chieftain 2200 is also available as a hybrid.

The Powerscreen® Warrior 1400XE is a flexible screening machine, aimed at operators who require a high performing, heavy duty, versatile machine that remains easy to transport. It offers improved performance, lower operating costs, and easier serviceability while building on the reliable foundation of our class-leading Warrior 1400 scalper. A variety of media solutions mean that the Warrior 1400X is extremely efficient in scalping, screening, and recycling applications and it can process mixed demolition waste including green waste, soil, concrete, wood, and asphalt. The main benefit of the Warrior 1400XE is the variety of power options available. It can be self-powered with its own 72kVA generator or be connected to a mains electricity supply for even further reductions in cost of ownership. Other Warrior models are available as hybrids including the 1800, 2100 and 2400.



The Powerscreen® H6203R Horizontal Screen is ideal for handling high volumes of sticky materials and for the exact, fine sizing demanded in many construction contracts. The H6203R model features a recirculating swivel conveyor for oversized product. The conveyor is used to return product back to the feeder. Adjustable elliptical throw combines linear and circular amplitude

producing an aggressive screening action. This is a heavy-duty screen designed to excel in a variety of applications such as concrete, iron ore, aggregate, and asphalt.

Hybrid Conveyors

Fitted with an electric hydraulic drive, in conjunction with the standard hydraulic drive, the conveyor can be run as a standard diesel or connected to an external electricity supply, including a Powerscreen® crusher. Hybrid technology is also available on the NEW HL75 Organics model which combines the highly versatile Chieftain Feeder system and stockpiling conveyor, allowing the operator to directly discharge from wheel loaders to eliminate the double handling of material on site. An auger at the hopper outlet provides an aeration and untangling solution of organic materials. The high capacity, customized hopper design efficiently transfers and prevents the bridging of materials for stockpiling.

Washing Systems - Terex® Greenline Engineered Recycling Solutions

In addition to the Powerscreen Hybrid range, PowerX Equipment are also official distributors of Terex® Greenline Engineered Recycling Solutions which helps reduce waste and water consumption.

Wet processing recycling is the ultimate technology for material recovery and reconditioning, which can be applied across a broad spectrum of feed materials to produce recovered valuable sands and aggregates, quite often from a 'waste' material otherwise destined for landfill.

Terex® Greenline Engineered Recycling Solutions package together PowerX Equipment's extensive process experience, wet processing products, AquaClear water management solutions, and renowned Terex Crushing technologies to provide balanced, end-to-end processing systems for various materials from 30tph right through to 300tph, in an out-of-the-box approach, whilst maintaining the ability to easily tailor for particularly specialist applications.

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Agg Pro excel in providing top performing, highest quality products. As official distributors of McCloskey International, McCloskey Washing Systems and Gipo products, we can offer a complete range of crushers, screeners, stackers and washing systems.

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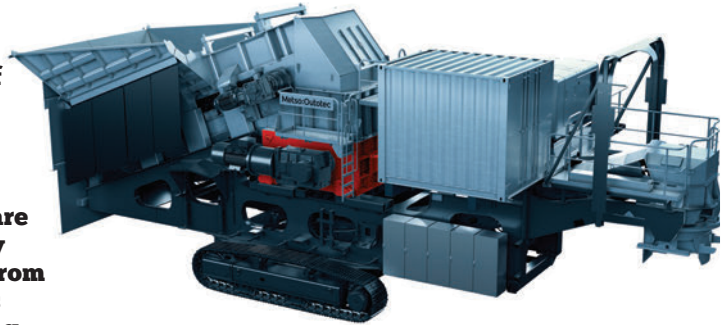


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Metso Outotec expands its mobile and stationary crushing systems range with a sizer crusher for soft ore applications

Metso Outotec is complementing its line of mobile and modular stationary crushing solutions with a sizer option specially designed for soft ore and aggregate applications. The new additions to Metso Outotec's mobile Lokotrack® product line are equipped with Komatsu's sizer technology and are available in five models ranging from 500 to 4500 tons per hour. Metso Outotec's recently launched modular FITTM crushing stations are also available with sizer configurations. Both the mobile and modular solutions were engineered in collaboration with Komatsu. The first Lokotrack® sizer plant is already in operation in South-East Asia.

"New concentration technologies and strict environmental norms make it economically viable to process such deposits and stocks that were not possible to handle profitably earlier. However, the characteristics of soft ores like low abrasiveness and high moisture content require a different equipment configuration than when crushing hard ore. To provide leading solutions for our customers processing soft ore, we are now combining our expertise in mobile and semi-mobile crushing with Komatsu's sizing knowhow," says Julius Mäkelä, Vice



President, Mid-Size and Mobile Crushers at Metso Outotec.

"Komatsu is excited about the opportunity to partner with Metso Outotec to provide soft ore crushing solutions. Komatsu's Joy sizers are well known in the industry and they have proven their efficiency and reliability in various applications. The combination of Metso Outotec's Lokotrack® and FITTM Station with our sizers provide a unique and superior solution for soft ore and rock crushing," says John McCarthy, Sizer Product Manager at Komatsu.

Metso Outotec's Lokotrack mobile sizers are designed for safe operation and easy application. When combined with the Lokolink™ and Conveying Systems, Metso Outotec can provide a truckless solution right from the quarry to the concentrating or cement plant.

New cone crusher module from Swedish Maskin Mekano

The ambition of the new modular concept from Maskin Mekano is to combine the best from stationary plants with the flexibility of a mobile plant. In production, these machine units on their high jacking legs resemble stationary plants while being very easy to move between different workplaces. With modules for feeding, crushing, and screening by Maskin Mekano, it is easy to create an optimized plant with high capacity that is also sustainable, safe, and versatile.

Maskin Mekano's program of modular machines is characterized by:

- Electric drive
- Interlocking control systems and emergency stop loops
- User-friendly and safe service work
- Secure establishment and de-establishment
- No removal of machine parts before moving
- Loading and unloading without lifting assistance
- Transport width <3.0 m, i.e. no need for an accompanying car

CH440-PS

The CH440-PS cone crusher is an important cog in Maskin Mekano's modular range, where there is a VSI crusher, feeder stations and screening units. The machine is a conveyor in/conveyor out version with a pre-screen and it is equipped with an on-board return conveyor that makes it compatible with Maskin Mekano's final screen SH 1503 for closed circuit.



With this launch, Maskin Mekano is seriously back as a supplier of well-built crushing plants.

Material flow

The CH440-PS is equipped with Sandvik's CH440 cone crusher. Before entering the crusher, the material is loaded on a pre-screen with an on-board conveyor that either takes a 0-size material out of the process or runs the material by-pass to the conveyor under the crusher. The crushed material is loaded to the docked screen SH 1503 and the return is handled with an on-board swivel conveyor.

Easy to transport

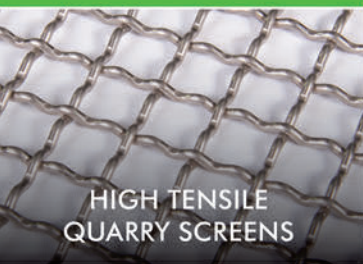
The CH440-PS is transported on a jumbo trailer or a machine trailer. It is loaded completely without lifting help, the trailer is reversed in between the machine's jacking legs. After the machine is lowered onto the platform, the legs fold to 3.0 m width. The transport therefore does not require an accompanying car.

The hydraulic unit has a battery pack and 24-V system which means that loading and unloading can be carried out without power from the mains or generator.



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McCloskey® unveils new Mobile Feeder Stackers

RF80 and RF80R are the largest in category and boost efficient stockpiling across applications...

McCloskey International has introduced new feeder stackers to its lineup - the RF80 and the RF80R - designed to be the largest and most productive products in the category.

McCloskey RF80 High Stockpile Capacity



Versatile in its use across industries, the RF80 Feeder Stacker facilitates the handling and stockpiling of materials including, but not limited to, aggregates, coal, C&D waste, sand and gravel, topsoil and compost. All can be fed into the large feed hopper with large loaders and excavators, while variable speed prevents material from building up, allowing for more controlled flow of material.

Both the RF80 and the radial RF80R stackers are designed for low level rear feeding, making them more accessible for various loader sizes. Rear feeding can also be advantageous in applications where space is constrained.

The track mobility of the RF80 ensures the machine is versatile on-site. When moving site-to-site, the RF80 can be compacted for transport on a low loader reducing costs and logistics.

RF80 Folded for Transport



Key Features of the RF80 include:

- 100kW (127Hp) CAT engine
- Dual hydraulic main drive system
- 4m tracks for superior manoeuvrability and stability
- Hydraulically adjustable discharge height up to 10m
- Fuel efficient Hydraulics system.
- User Friendly Hydraulic Controls
- 80' long main conveyor with 40" wide belt
- Hydraulic folding heading section for transport, minimizing setup time.
- Production up to 800 MTPH (880 TPH)

The RF80 also offers many options to align the equipment to the requirements of the owner/operator, including:

- Complete remote functionality
- Various hopper liners, including Hardox®
- Head scraper upgrade
- Full skirting on main conveyor
- Various belt types available

The RF80 is available in dual power and diesel/hydraulic.



McCloskey RF80 Feeder Stacker

Terex® Finlay introduce new TF-75L Orbital Low-Level Feeder

The Terex® Finlay TF-75L low level feeder is now available with our class leading 'Orbital' technology.

The machine features a rotating undercarriage with a centre mounted slew gear to enable 360° rotation. With the ability to create parallel stockpiles the machine offers unrivalled mobility and durability to greatly enhance stockpile capacities in a diverse range of applications and feed material types. The machine is the ideal solution when operating in sites with space limitations and for transferring materials and to directly load / unload ships, trucks, and rail wagons.

The large 7m³ (9.2yds³) hopper with a feed in height of 1900mm (6' 3") and width of 3500mm (11' 5") enables low level feeding directly from excavators, grab cranes, and wheel loaders compared to standard high-level feeders. For onsite safety and quick setup, the hopper is fitted as standard with hydraulically folding sides.

Tracked mobility and the ability to feed material from all three sides enable the TF-75L to be easily incorporated into open and closed circuit static and mobile crushing and screening circuits.

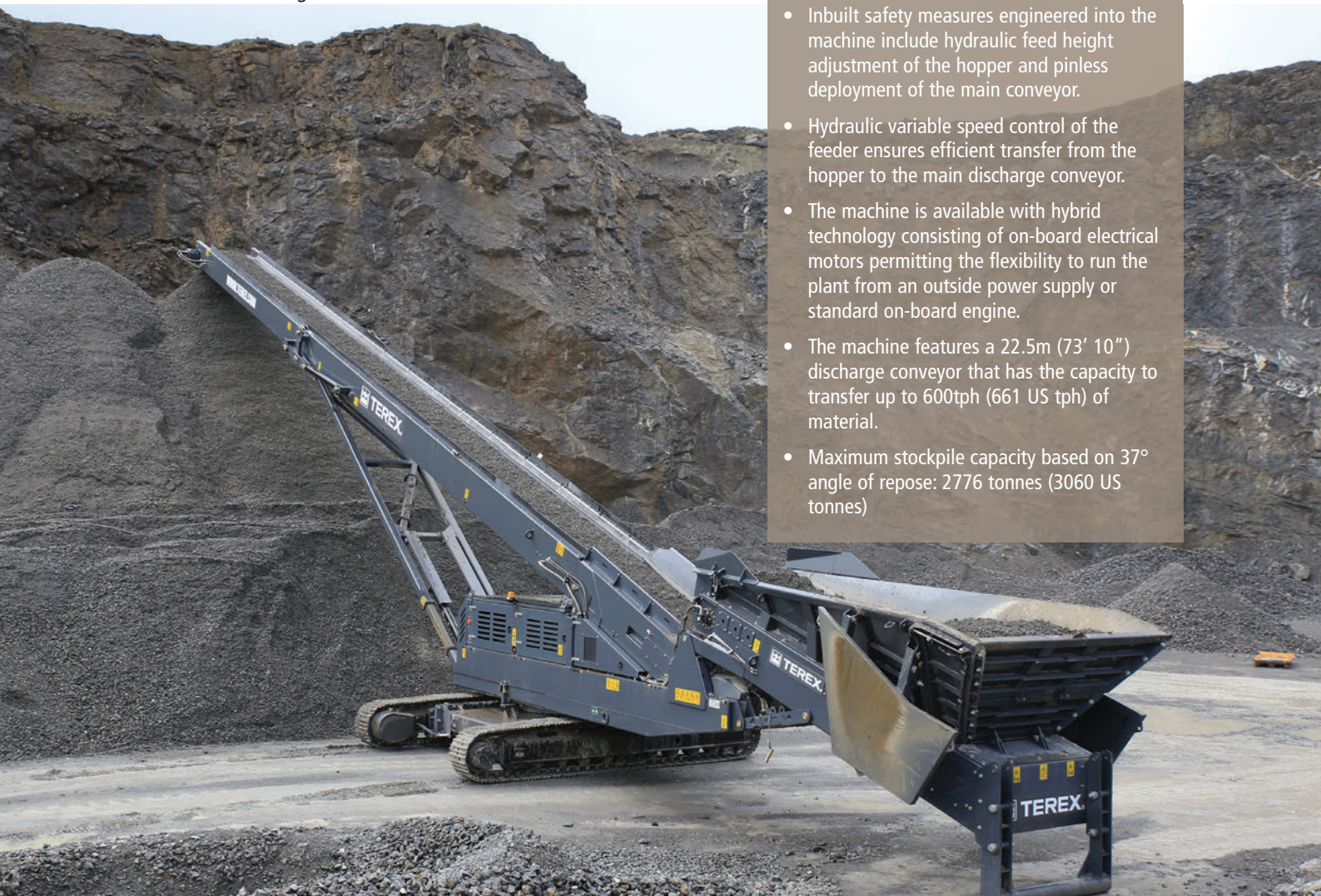
For crushing and screening applications the machine can be used for a 'metered or controlled' feed of material. The machine can also be used to feed auxiliary equipment, connect to additional conveyors for transferring materials and to directly load / unload ships, trucks, and rail wagons.

The 'Orbital technology' is also available on the Terex Finlay TF-75H high level and TF-75H Organics feeders.



Key features:

- Inbuilt safety measures engineered into the machine include hydraulic feed height adjustment of the hopper and pinless deployment of the main conveyor.
- Hydraulic variable speed control of the feeder ensures efficient transfer from the hopper to the main discharge conveyor.
- The machine is available with hybrid technology consisting of on-board electrical motors permitting the flexibility to run the plant from an outside power supply or standard on-board engine.
- The machine features a 22.5m (73' 10") discharge conveyor that has the capacity to transfer up to 600tph (661 US tph) of material.
- Maximum stockpile capacity based on 37° angle of repose: 2776 tonnes (3060 US tonnes)



New brake assistant for Liebherr wheel loaders reduces stopping distance

- **Brake assistant and incident map: new functions for active personnel detection at the rear, an intelligent wheel loader assistance system**
- **Brake assistant: automatic speed reduction to avoid accidents**
- **Incident map: safe work sequences thanks to risk zone identification**

Active personnel detection is an innovative assistance system for the Liebherr L 526 to L 586 XPower® range of wheel loaders. Liebherr has now added two extra functions - the brake assistant and incident map - to active personnel detection. The brake assistant automatically slows the speed of the wheel loader to a standstill the moment the active personnel detection issues a warning signal. The incident map displays potential risk zones on the site using GPS data in LiDAT - Liebherr's in-house transfer and location system.

Bischofshofen (Austria), 19 January 2021 – Statistically speaking, accidents with wheel loaders occur most frequently when the machine operator reverses after a loading process. This reverse travel is particularly risky if people are located in the wheel loader's operating area. In these situations, there is a huge responsibility on the machine operator. Construction machine accidents can often result in severe injuries and significant damage. To ensure maximum safety, Liebherr is therefore continuing to develop its assistance systems. A current example of this is active personnel detection at the rear which now has an integrated braking assistance function and an incident map.

Brake assistant: automatic speed reduction reduces stopping distance

Active personnel detection visually alerts the machine operator via the display screen and sounds acoustic signals if there is danger in the wheel loader's rear area. In order to provide a specific warning of imminent injury to people, the assistance system, using smart sensors, provides specific warning of people in the rear area of the wheel loader at a greater distance than for obstructions such as walls, columns or other vehicles. This means the assistance system avoids unnecessary signals, thereby reducing the burden on the machine operator and causing fewer distractions.

The moment the active personnel detection system identifies a source of danger, the brake assistant slows the wheel loader down to a standstill. The braking process is therefore initiated at an earlier stage and quicker than in the case of traditional braking since, with the brake assistant, there is no delay caused by human reaction time. This means there is an important reduction in the stopping distance which, in turn, reduces the frequency and severity of accidents.

In the case of the brake assistant, the hydrostatic components of the drive train automatically reduce the speed. This means the machine operator can continue to operate the wheel loader service brake in the normal way and can do this in addition to the brake assistant.



The Liebherr brake assistant automatically decelerates the wheel loader the moment the active personnel detection identifies a source of danger in the rear area.



Using the incident map, the Liebherr wheel loader operator can identify risk zones on the site and implement measures to avoid accidents.

Incident map: risk management thanks to display of danger zones

Besides the brake assistant, a second new function for the active personnel detection at the rear is the incident map. Each time the assistance system detects a danger and a warning signal is issued, the system transmits a GPS signal to LiDAT, Liebherr's in-house transfer and location system. On the basis of this signal, and for each operator of a wheel loader with active personnel detection, Liebherr provides a Google map in LiDAT showing these GPS points.

The result is an incident map displaying the risk zones and potential sources of danger on the site. The operator can use this to take measures to prevent accidents and therefore increase safety. For example, the operator might reroute footpaths, cordon off areas and alter dangerous work sequences. The head of operations can use the incident map to train employees and make them aware of risky situations.

Compact and efficient screening with Terex Ecotec's New TTS 518 Trommel

Leading environmental equipment specialist, Terex Ecotec, have expanded their trommel offering with the launch of the new TTS 518. Their smallest trommel to date, compact yet uncompromised, the TTS 518 has been intuitively designed offering operators unrivalled application flexibility, production rates and serviceability. Fully equipped with a Stage V engine and the latest intelligent screening technology, the TTS 518 delivers a superior and cost-efficient end-product. Ideal for small to medium sized operations where space may be limited, the highly versatile TTS 518 is available in both tracked and wheeled variants and can screen a variety of material including compost, biomass, soil, gravel and waste.



Conor Hegarty, International Sales Director commented "The TTS 518 trommel is the latest trommel to be launched by Terex Ecotec and will complement our strong range of trommels already in the market. Inspired by the successful TTS 620, the TTS 518 has been designed as an entry level machine where lower volumes and smaller machine footprint are required. More compact without sacrificing key features the TTS 518 benefits from low operating costs and comes with the latest engine technology complying with Stage V emissions standards."

The TTS 518 shares the same intuitive control system and 'push to start' buttons used on the TTS 620, allowing the operator to effortlessly configure the machine to suit the required application. The intelligent feed control system



continually monitors the machine adjusting the feeder speed to optimise screening performance and throughput. Being driven at the head, the feeder provides an excellent and continuous feed rate, reducing slippage in difficult applications. The feeder has also been designed as a slide out cassette which allows for easy maintenance and quick and simple belt changing. The clear tunnel area underneath the feeder prevents material build up and allows any material in this area to drop directly onto the ground.

Providing a total screening area of 23m² the TTS 518 is fitted with a 1.8m x 4.7m horizontal drum with spiral design. With double-sided drum access via 180 degrees opening side doors, maintenance and drum changes can be carried out with ease. The TTS 518 has been designed to accept a number of other trommel manufacturers' drums, enabling it to integrate seamlessly into an operators existing fleet.

The TTS 518 is fully equipped with the latest Stage V engine requirements and has been designed to provide excellent fuel efficiency and low operating costs. The swing out engine cradle provides unprecedented service access enabling daily checks and maintenance to be carried out safely from ground level. All the conveyors are fully modular allowing each to be removed independently, with the fines and oversize also lowering to ground level for maintenance.

An adaptable trommel suitable for all market conditions, the TTS 518 is available as a full EU Whole Vehicle Type Approved wheeled unit or as a tracked unit where increased site mobility is required.

The TTS 518 is available to purchase now via Terex Ecotec's world class dealer distribution network that provide the sales and aftermarket service demanded for in the market. To learn more and to locate your nearest dealer visit www.terex.com/ecotec



AKS Skip Hire choose the HAAS TYRON for C&D Shredding



AKS Skip Hire Services Ltd, is a family run skip hire business based in Norwich. They supply over 600 skips across their region and offer a tipping service at their waste transfer station.

AKS recycle 100% of the material they receive, 85% of which is done on site, with the remaining 15% used by a local power station as fuel.

They process a range of waste streams with the majority being construction and demolition waste.

As the company continues to grow and increase the tonnages of waste they process, the decision was taken to purchase a shredder that could reduce the volume of bulky C&D waste on site. The shredder needed to be able to reduce the bulk of the waste, while producing a consistent particle size than can be easily picked through their picking line.

"The new shredder was needed as we had increasing volumes of waste coming into our site. We have found that shredding the waste down allows us to process it quicker through our picking line. As with all transfer stations, I think you always tend to need more room, and this way we can control the volumes of waste on site and process the material quicker."

As CRJ Services had an existing relationship with AKS, they were once again consulted on the purchase of AKS's new shredder. Keven Nixon, Director at AKS Skip Hire had several machines come to site for demonstrations, including the HAAS TYRON 2000XL 2.0 provided by CRJ.

"I looked at two of three different types of machine, and the HAAS was the best value for money. The demonstration was good, and (CRJ's) team came to site and did a good demo for me, which swung my decision. The machine did exactly what I wanted it to do. I tried every material I needed to, and it performed above expectations." Keven Nixon – Director at



AKS Skip Hire Services.

The HAAS TYRON is an incredibly versatile machine, which is perfect for AKS who processes various waste streams on site. The independently driven twin shafts have a number of settings for different waste streams, which allows the customer to switch the materials being shred in a matter of minutes.

The recently upgraded HAAS TYRON also new benefits from a hydraulically height adjustable neodymium magnet. Having the ability to adjust the height of the magnet quickly, allows users to optimise magnetic separation across the various materials.

Not only does the HAAS TYRON boast impressive performance, but it is also quite easy and time efficient to maintain. This is in part down to the ground level access to the underneath of the shredding chamber, as well as the upgraded shredding chamber itself. The TYRON has also increased the amount of space around the engine and hydraulic compartments, making daily checks and servicing easier and quicker.

Keven added, "It is still early days as we have only had the machine 3 or 4 weeks, but so far so good. The machine is performing well, and the back-up has been great. We have also had the telematics (online monitoring) and fire suppression fitted, so we are all up and running, and everything is going well at the moment."

Neutron Equipment develop their equipment portfolio

Neutron Equipment Ltd have underlined their commitment to the Recycling Industry and strengthened their equipment portfolio with the addition of three more distributorships.

Neutron Equipment Ltd have underlined their commitment to the Recycling Industry and strengthened their equipment portfolio with the addition of three more distributorships.

Based in Reading, Berkshire Neutron Equipment have been appointed UK distributor for Taurus, Ecohog in Wales, East & West Midlands & the South, and Eggersmann in the South of England, Wales, Ireland, and Northern Ireland.

As an existing UK and Ireland dealer for Peterson Grinders and Chippers these additional distributorships have positioned Neutron Equipment as a supplier of world leading recycling equipment for all material and process types.

Darren Gathercole – General Manager, commented, "These new additions to our equipment portfolio have strengthened our position in the Recycling Market as a multi-product equipment supplier of strength. These are strong world-class competitive brands with big reputations; and will be backed by our in-house service & support factory trained teams who are fully qualified to service and maintain the machines. We can tailor a bespoke service and maintenance plan, from weekly maintenance checks through to regular reviews and servicing, in order to ensure the safety and maximise performance of all the machines we sell."

Eggersmann:

Eggersmann GmbH is one of the leading manufacturers in the recycling industry that offers a complete product line of mobile and stationary recycling machines. Eggersmann manufactures and distributes products under the well-known brands BACKHUS, TEUTON, FORUS and TERRA SELECT and supplies solutions for the most kinds of applications, where shredding, screening, and turning is required.

The TEUTON range of machines can achieve rough pre-shredding to a finished end product covering a unique variety of applications including wood, plastics, bulky waste, green waste, roots, tyres & MSW.



Minimum Maintenance System (MMS):

All Eggersmann machines incorporate a Minimum Maintenance System (MMS)

- Lubrication interval only every 250 operating hours. All lubrication points freely accessible from ground level.
- Oil change intervals only every 500 (1000) operating hours. All operating fluids can be drained standing on the ground.
- Daily maintenance > air filter, fuel, and DEF - all accessible from ground level.
- Access to the shredding area within a couple minutes from the ground.

****Neutron will be running demonstrations on the TEUTON Z 60, FORUS SE 250 and TERRA SELECT T 60 in the near future.**





Taurus:

C&G Srl is an Italian company that designs and manufactures equipment and solutions for the scrap metal industry. Current product lines include a comprehensive range of shears, balers, shredders, and pre-shredders.

An example of this product range is the Taurus CAT Shear & Baler. This versatile machine adapts to your working method. You will decide, wherever you want it to work, it will follow you, it is not a new idea, it is just a brilliant idea!

The supporting structure can be equipped with 4 cylinders to ensure stability and ground alignment. In addition, the cylinders allow the shear & baler to be lifted, allowing loading and unloading from the means of transport, whether it is a tracked vehicle or a swan-neck semi-trailer.



Ecohog:

Ecohog are a family-owned equipment manufacturer operating on a global scale with over 30 years' experience supplying equipment to the waste and recycling sector.

Through extensive market research, research and development and concept design in finding solutions to waste sorting problems the company has developed the Ecohog Windshifter and Metal Recovery ranges which are some of the most efficient separation technology in today's market.

Providing solutions to waste sorting problems by incorporating low energy consumption, low noise levels and low dust emissions whilst meeting the latest regulations and promoting the environment at more affordable price.

Ecohog can provide bespoke units to accommodate specific needs and process requirements in both static and mobile installations.



All the CAT series of shears & balers are composed of a single monolithic self-supporting structure with the shear equipped with the original TAURUS "SWINGING WING" patented system with OVERSTROKE on both wings.

All the manufacturers are providing full support through their sales, spares and technical teams.

For more details on these equipment ranges please contact:

Neutron Equipment Ltd
Unit 4a, Field Barn Farm, Beenham, Reading, RG7 5LT.
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Changes to PASMA Tower Standard EN1004 - Are you Complying?



What does the new PASMA tower standard mean to you? If your business uses mobile access towers to carry out any tasks onsite, no matter how frequent or infrequent, you have a responsibility to provide equipment to your employees that is safe, reliable and that meets the correct legislative requirements.

There will be a number of new changes coming into the mobile access tower industry for the BS EN1004 standard this year and whilst the original standard has not yet been withdrawn, there will be an implementation period to allow for a smooth and effective transition so employees can ensure the right equipment is situated on all sites.

The current standard allows us to understand what materials, dimensions, design loads, safety, and performance requirements we should be conforming to and why it is crucial that these requirements are followed indefinitely. This standard will now be adapted to provide even more safety measures and requirements onsite and provide maximum user safety.

Managed and enforced by technical committees (TCs) and the CEN TC53 Working Group, we expect to see a number of changes to the current standard, but how will these changes affect you and what should you expect to see?...

1. Low-level towers brought into scope (towers with a working platform below 2.5 metres will now fall within the scope of BS EN1004)
2. Mobile access towers to become more safe (shorter distances, measures, secured platforms, wind guidance)
3. Product innovation (access from outside the tower, development in AGR)

We will continue to provide information as these changes come into place and provide details on where to find all the required specifications and conditions. If you have any questions relating to PASMA training, speak to our team today – 01246 386900.



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Recycling Technology

NEUTRON EXPAND THEIR EQUIPMENT PORTFOLIO WITH EGGERSMANN

Neutron Equipment Ltd will soon be running demonstrations with the TEUTON Z 60, FORUS SE 250 and the TERRA SELECT T 60. For more information contact info@neutronequipmentltd.com.

The Teuton Z 60, available in Wheeled, Tracked used for the most difficult shredding tasks from green waste & roots to Tyres and C&D still giving the longest service life. Robustly built and yet mobile on the road with a standard truck. It has a simple operating system with an almost touch and go principle with 5 shredding programs.

Key for the users is the ASC (Auto Standby Control) where the shredder will rest in idle and automatically detects the material to switch into shredding its mode. All shredders come with the Minimum Maintenance system (MMS).

Neutron are pleased to announce that they are joining forces with Eggersmann GmbH and will represent them throughout the South of England, Wales, Ireland and Northern Ireland. The Eggersmann GmbH is one of the leading manufacturers in the recycling industry that offers a complete product line of mobile and stationary recycling machines. Eggersmann manufactures and distributes products under the well-known brands BACKHUS, TEUTON, FORUS and TERRA SELECT and supplies solutions for the most kinds of applications, where shredding, screening and turning is required.

Eggersmann pays attention to the customer's needs and provides innovative solutions by supplying full support, from the first idea to the final product. Decades of experience and knowledge are incorporated into the worldwide business of Eggersmann GmbH which ensures proper results for our customers.

Machine references in recycling facilities and plants all over the world (Europe, Asia, North and South America, Africa, Australia) verify the high quality and the wide application range of Eggersmann machines.



Minimum Maintenance System (MMS)

- Lubrication interval only every 250 operating hours. All lubrication points freely accessible from ground level.
- Oil change intervals only every 500 (1000) operating hours. All operating fluids can be drained standing on the ground.
- Daily maintenance > air filter, fuel and DEF - all accessible from ground level.
- Access to the shredding area within couple minutes from the ground.

What will you Shred??

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TAURUS CHOOSE NEUTRON EQUIPMENT AS THEIR UK PARTNER

We are proud to announce our partnership with Neutron Equipment Ltd which will allow us to offer and provide the full range of Taurus recycling solutions within UK.

TAURUS represents the highest expression of research & innovation and is recognised as a main player within the scrap industry. TAURUS is able to satisfy requirements for Balers, Shears, Rippers, Two Shafts Shears, Hammer Mills and Refiners with an impressive range of products in scrap recycling to satisfy the needs of customers.

The Colombo family states that "we are undoubtedly satisfied with the decision to cooperate with Neutron Equipment Ltd who will act as <<Taurus UK>>. We are confident that this relationship will provide great results for all parties involved. In fact, our continued market research within the UK territory indicates that there is a demand for innovative, efficient, and reliable turnkey solutions. In addition to a dependable and consolidated product, it is important to have an experienced local partner with an in-depth understanding of the market and who is, furthermore, able to support the client during the sales process and provide after-sales support. For these reasons TAURUS and NEUTRON chose each other."

With this agreement TAURUS takes great pride to present the new and renewed product line that we invite you to visit on the new website www.taurusweb.it.



"CAT"

***If the Scrap doesn't go to the shear...
...The Shear goes to the Scrap***

"CAT" shear & baler that adapts to your working method. You will decide, wherever you want it to work, it will follow you. It's not a new idea, it's just a brilliant idea. The supporting structure can be equipped with 4 cylinders to ensure stability and ground alignment. In addition, the cylinders allow the shear & baler to be lifted, allowing loading and unloading from the means of transport, whether it is a tracked vehicle or a swan-neck semi-trailer. "CAT" can work directly on the ground. "CAT" series shears & balers are composed of a single monolithic self-supporting structure. The "CAT" shear is equipped with the original TAURUS "SWINGING WING" system with OVERSTROKE on BOTH WINGS SBxc (Patented).

CAT"	C662	C762	C863	C963	
Cutting Force	tons	600	700	800	900
Clamp	*	*	*	*	*
Cutting Width	mm	900	900	900	900
Box Length	mm	6100	6100	6100	6100
Cylinders per wing	No	2	2	3	3
Max Compression force on each wing	tons	300	300	450	450
Main Cylinder compression force	tons	150	150	150	150
Electric Motor	KW	132	132	200	200
Diesel Engine	HP	300	300	300	300"
Indicative Weight	tons	80	85	100	105



NEUTRON
EQUIPMENT LTD

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Interview with

Martina Schmidt,

Head of the Recycling, Waste business unit at Vecoplan AG

"Thanks to various configurations, our shredders quickly get all small materials."

The new VIZ from Vecoplan can reliably shred a wide variety of plastic materials.

Away from use and throwing away, towards reusing, multiple use and passing on. Despite the steadily increasing amount of waste, we must manage to use our resources sensibly and sustainably. In a circular economy, resource requirements are reduced and recycling plays a key role. For this purpose, Vecoplan AG offers

machines and systems that shred, convey and process primary and secondary raw materials - and thus provide the foundation for functioning recycling. Martina Schmidt, Head of the Recycling I Waste business unit, knows what requirements are placed on shredding technology.....

Ms. Schmidt, what requirements are placed on shredding technology today?

Martina Schmidt: In order to be able to close cycles, downcycling must be avoided and the acceptance of recycled material on the customer side must be increased. This goes hand in hand with high quality standards for the system technology used. One of the most important components at the very beginning of every reprocessing is the shredder. Plastics have a wide variety of mechanical and thermal properties. The input material has different degrees of soiling and is sometimes heavily contaminated with tramp material. Choosing the right shredder guarantees process stability: high continuous throughput, homogeneous grain sizes with lowest share of fines and oversizes.

How does Vecoplan support recycling companies with this variety of input materials?

Martina Schmidt: The recycling and waste management industry has taken on the task of operating high-performance systems that provide the market with consistently high-quality recyclate. The shredder plays a crucial role in this. Our product developments and innovations aim at highest flexibility and a broad range of input material. The shredder paves the way for the subsequent process to higher productivity and profitability: The right selection of the cutting unit, perfect coordination and selection of the program, high and flexible cutting force, simple and exact setting of the cutting gap, to name just a few important key points. All of this, of course, combined with the highest possible availability, the simplest maintenance and of course operator-friendly. This is what our shredders and we stand for.

How do you find the right solution for every application?

Martina Schmidt: We work closely with our customers on development. In the past few years, plastics processors have always faced us with new challenges. The customers also included companies that did not get a satisfactory solution from other manufacturers. We develop shredders which we

adapt precisely to individual applications in numerous tests in our technology centre. All tests are documented, made available to the customer and recorded in our database. This database by now includes more than 2,000 tests. Output material temperature, noise emissions, torques and cutting forces are monitored and recorded in real time. There is an internal laboratory available for moisture measurement, grain size and density determination as well as material testing.


Over the years, we have acquired an enormous level of knowledge, and this not only in theory, but above all in practice. Vecoplan has the longest experience in the field of slow-running single-shaft shredders.

In order to develop future-oriented solutions, you need the right people in every business area. How is the staff situation in the Vecoplan area of recycling / waste?

Martina Schmidt: As in the other business units at Vecoplan, our team consists of absolute specialists. This includes plastics and application engineers, mechanical engineers, sales professionals and project managers. In our business unit, we not only bundle a lot of technical expertise, but also extensive personal experience.

How does this show in your developments?

Martina Schmidt: The expertise ultimately results in the development of new technologies such as of our new VIZ shredder series, which we presented for the first time at the K in Düsseldorf last October. The initials VIZ stand for Vecoplan Infinity Zerkleinerer (= shredder in German). This single-stage shredder is a solution for any input material. Due to the concept of screwed tool holder plates with variable cutting crown sizes, there is no longer a need for rotor changes. Limitless flexibility also in the drive technology - variably adjustable speed range, tramp material detection, high dynamics in the drive by fast reversing and restarting, highest possible torque at low speed, smooth start-up even when the machine is full. Combined with absolute user comfort, high availability and low operating costs, the VIZ truly deserves its name: No limits.



The shredder can be adapted in detail to the input and output requirements via the rotor and knife equipment as well as the appropriate screen selection.

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STADLER: innovating on the path to a circular economy

Ferrocarril plant



Crisóforo Arroyo, Gerente General La Perseverancia

The recycling sector is growing and evolving fast, as the world moves towards a circular economy model to address the environmental challenges of this century. STADLER is supporting the sector, anticipating the changes, and providing solutions as new requirements arise.

The pursuit of a circular economy to address the global issues of waste and resource scarcity is driving the evolution of the recycling industry, which is translating into new requirements from waste sorting plants. STADLER is quick to identify new demands and provide a solution, either by developing a new machine or optimizing existing ones. It conducts extensive testing on the proposed solution at its Test Centers or at the customer's plant until the desired result is achieved.

Anticipating new requirements with innovative solutions

A significant change in recycling industry is the increasingly high purity level of the sorted fractions it requires of waste sorting plants. They need this to meet their customers'

demand for high-quality recycled end-products that can compete with virgin materials on the market. Another important change is the growing demand for specialization in the sorting processes and for the ability to sort multiple materials flexibly.

STADLER has anticipated these changes and has already completed various projects that meet the new demands. The company designed and built one of the world's first sorting plants specializing in film, the Integra Plastics plant in Sofia, Bulgaria, with a capacity of 4 tonnes/hour, sorts the fractions into HDPE, PP and LDPE and by color (transparent, blue, and green).

STADLER is also breaking new ground in achieving a textile circular economy, where current manual sorting processes are unable to meet the high-purity requirements of the recycling companies and the fashion industry. It has designed, in collaboration with TOMRA, the world's first fully automated textile sorting plant with a capacity of 4.5 tonnes/hour in Malmö for Sysav Industri AB. The plant is part the Swedish Innovation Platform for Textile Sorting (SIPTex) government-funded project, which aims to develop a sorting solution tailored to the purity demands of textile recyclers and the garment industry.

Tailored solutions to match the customer's specific requirements with a complete solution

STADLER takes a holistic approach to every project, analyzing the individual customer's operational and business requirements, and developing a tailored solution that perfectly matches their needs. This is what Lars Krejberg Petersen, Dansk Retursystem CEO, found when STADLER designed and built their beverage sorting plant in Taastrup, Denmark: it is "a dedicated professional integrator capable of providing an end-to-end solution for material streams." He was also very



L-R Lars Krejberg, HRH The Crown Prince, Mayor Michael Minister, Lea Wermelin and Thomas Dalsgaard



L-R Pascal Schroll, Vincent Schroll, Clément Stehlin Schroll plant



Schroll plant

satisfied with the support received throughout the project: "STADLER also performed very well on the soft parameters."

STADLER has demonstrated its ability to develop tailored solutions in numerous projects, such as the one for French waste management and recycling company Schroll. They needed to increase the capacity for sorting more fractions and their operating flexibility. STADLER designed a new sorting plant to process 80,000 tonnes of waste per year, allowing for future expansion and the addition of further fractions. It features two independent plants – one for multi-materials and one for hollow material – to provide more flexibility.

In Mexico, it joined forces with Operadora de Ferrocarril y Manejo de Rellenos (OFMRS), which specializes in final disposal for MSW, to develop a plant capable of managing comprehensive waste treatment for 16 municipalities. The project introduces a new operating model with the aim of recovering different types of recyclable packaging and materials and re-distribute them back into various production chains, as many times as possible. Crisóforo Arroyo, General Manager of the La Perseverancia landfill involved in the project: "Our decision to invest in the project with STADLER was also based on the fact that this comprehensive project was sustainable and took domestic market conditions into account. This new plant fulfils our objectives on many levels: generating a purer biogas; reducing the carbon footprint; strategic alliances with firms that recycle and transform recycled input materials into green packaging; re-distribution of recycled input materials within a circular economy."

Building long-standing collaborations based on professional advice

In developing solutions for its customers, STADLER takes the long view. It considers their long-term needs and remains at their side, providing solutions as required when they evolve

over the years. The relationship with German recycling management specialist RCS is a case in point, as explained by the company's joint CEO Gerd Francke: "We had already purchased a ballistic separator from STADLER in 2005. Based on the good experience with their technology, we decided again to choose STADLER for a new ballistic separator in 2014."

In 2017, they turned to STADLER again for a complete modernization of the plant: "STADLER offered us the complete package, from project planning to the construction of the modernization of the entire plant, managed and implemented by their staff," explains Alexander Rimmer, joint CEO of the company. "We particularly appreciated their technical know-how and the support during the entire project. Their advice was flawless, and they offered us great technical experts who advised not only on the technology and processes, but also on the implementation possibilities specifically adapted to our technical requirements with good solutions to problems."

In 2019, STADLER helped them again with a new Label Remover when they required a further upgrade to meet new requirements arising from PET bottles being increasingly packed in "full-body" sleeves. Alexander Rimmer was fully satisfied: "with the STADLER Label Remover the labels are stripped off and the PET bottles are less damaged than with other manufacturers. As a result, we can register less fine abrasion."

All these examples highlight STADLER' focus on anticipating the recycling sector's evolution, detecting new requirements as they arise, and maintaining the operational flexibility to develop solutions to address them in a short timeframe. This makes it the perfect partner for recycling and waste management companies as the sector strives to achieve a circular economy.

Kiverco wins major contract in Saudi Arabia

Co Tyrone based Kiverco Recycling Plant has been chosen to design, build and install a waste recycling plant that will help recycle all construction waste from a new tourism project in Saudi Arabia. This latest multi-million-pound project represents another significant contract win for Kiverco in the Middle East following a major contract win in the UAE for a £3 million waste recycling plant earlier this year.

The Red Sea Project is the world's most ambitious regenerative tourism initiative which is being developed on the Kingdom's Red Sea coast by The Red Sea Development Company (TRSDC). The project is one of several large-scale investment mega-projects approved and overseen by Saudi's Crown Prince Mohammad Bin Salman as part of his ambitious Vision 2030 which among its many goals, aims to increase tourism in Saudi Arabia and reduce the Kingdom's dependence on oil.

The Red Sea Project has already passed significant milestones and work is on track to welcome the first guests by the end of 2022, when the international airport and the first four hotels will open. The remaining 12 hotels scheduled for completion in Phase One will open in 2023, delivering a total of 3,000 rooms across five islands and two inland resorts.



Chad Woodward, Director of Trade, and Investment at the British Embassy in Saudi Arabia, said:

"The Red Sea Project is a very prestigious development in the Kingdom, and I am very pleased to learn of Kiverco's involvement in the project. The fact that Kiverco was chosen by Averda to deliver a solution to process the waste generated by this project highlights the excellent reputation British manufacturing has in the region."

He added: "Kiverco has started to expand in this region and I am confident that they will continue to win new business as a result of this flagship project."

The Red Sea Project will employ some 35,000 people directly and provide another 35,000 indirect and induced roles. The destination will welcome a maximum of 1 million visitors each year by 2030, generating an estimated SAR22 billion (\$US 5.9 billion) in income for Saudi Arabia.

Environmental as well as economic benefits

As well as the huge economic benefits to Saudi Arabia, The Red Sea Project will also deliver on the Saudi Arabia's environmental targets. The project has committed to go beyond traditional commitments to sustainability and instead are following a regenerative approach to tourism for the development, including during its construction phase. Upon completion, the project pledges include 'no waste to landfill', 'no use of single-use plastics' and '100% carbon neutrality'.

While incorporating world-class partner component technologies, some 85 per cent of the Averda plant was manufactured at Kiverco's headquarters and factory in County Tyrone, Northern Ireland.

Congratulating the company, Steve Harper, Invest NI's Executive Director of International Business said:

"Invest NI has worked with Kiverco for many years. Our in-market teams in both UAE and across Europe are assisting the company to grow internationally, with a multi-million-pound contract in UAE announced by Kiverco just last year and a further distribution agreement in Poland with our support. This new contract is testament to Kiverco's growing reputation globally and its efforts in continuing to build on business relationships, particularly in the UAE. Invest NI will continue to support Kiverco to strengthen its international portfolio and capitalise on current business opportunities in this very lucrative market."

The recycling solutions designed and delivered by Kiverco will recover concrete, fines (sand/soil), wood, ferrous metals, non-ferrous metals, cables, plastic bottles (HDPE & PET), plastic film, and cardboard. The plant is designed to process in excess of 150,000 tonnes per annum of construction waste at Averda's newly developed waste processing facility site at the project site on the Red Sea coast. The recovered materials will

be recycled into new products as well as providing RDF fuel to generate electricity at a nearby Waste to Energy plant.

Kiverco was chosen by Averda, a leading waste management business in the region, for this project based largely on the Company's reputation for providing high quality, high performing recycling plants across the globe. Mazen Rifai, Technical Director at Averda, highlighted the importance of choosing the right partner to process waste generated from the construction effort:

"This is a hugely important project for Averda and for Saudi Arabia. It was critical for us to choose the right partner to provide a waste recycling plant as we must meet stringent targets on throughput and recovery rates. Kiverco are very well known for their design and build quality and have a long history dealing with this type of waste. I am very confident we have chosen a partner who will work closely with us to deliver this project and facility for Averda and The Red Sea Development Company."

The project win for Kiverco was spearheaded by Gabriel O'Keefe who is the Export Manager for the Middle East region. Following a number of visits into Saudi Arabia in 2019 and a visit to Kiverco's headquarters outside Dungannon earlier this year, the contract was agreed and signed via video-link with Averda during the COVID-19 pandemic. Mr O'Keefe concludes:

"We are delighted to be selected by Averda to design, manufacture and install this recycling solution and honoured to be associated with The Red Sea Development Project. This will be a world class tourist destination and we look forward to working with Averda for many years to come. The ambition and vision for this project is testament to the foresight of Crown Prince Mohammad Bin Salman."

Kiverco recycling solutions are utilised across the world in Europe, North America, the Middle East, and Australasia with more than 300 installations in the UK alone.



Recycled Material Supplies invest in a new Tyrone International Recycled Aggregate Washing Plant

The HUB-4 team recently had an invitation to visit this new state-of-the-art plant at the Dagenham site of Recycled Material Supplies (RMS)...

Tyrone International have designed, manufactured, and commissioned this new recycled aggregate washing plant which included a full water treatment system and a 20-metre long Fraccaroli & Balzan filter press.

About the RMS Group:

The London based RMS Group was established in 2007 and has grown rapidly gaining a reputation for customer service and quality recycled products for the demolition, construction, and groundworks industries.

Their focus is on offering complete material supply management, from collection to recycling; sustainable business solutions adopting sustainable and environmentally responsible recycling practices minimising any environmental impact.

The company now operate 5 recycling centres within East and South London and currently have a fleet of 100 trucks.

Their services include the supply of crushed aggregates, washed aggregates, tipper hire, grab lorries, 'rollonoff' lorries, skip hire and dust carts.

RMS had a small washing plant on the site but were looking to significantly increase their production and produce a greater range of products and have zero aggregates going to landfill.

After viewing a number of plants, it was suggested that Tyrone International would be the company to talk to and after consultation and numerous site visits Tyrone International were duly awarded the plant contract.





The owner of RMS, commented, "Tyrone took us to a previous installation which we were overly impressed with and on the basis of the build quality and their knowledge we subsequently gave them the contract to supply and install a turnkey solution.

"The whole investment is down to the realisation of the opportunities and a way of dealing with a problem by reducing landfill.

"Additionally, the installation of the water treatment plant and the press is phenomenal. The whole operation would not work efficiently without it; it works effortlessly ensuring the whole system is in harmony. Absolutely first-class service from Tyrone International, a truly knowledgeable team and the back-up is superb."

He, added, "We were very impressed right from the start and all the way through the build and now the plant is running we are even more impressed!"

A varied plant feed:

The new recycled aggregate washing plant is processing a combination feed of recycled materials containing anything from 'muckaway', to utility waste, trommel fines and the quantity of sand and the ratio of the sand/silt fraction completely varies in every bucket load going into the plant. However, the plant has been designed to accept a remarkably diverse feed whilst still retaining throughput.

Specified to process 120tph the plant is currently achieving an average of 140tph.



The Tyrone International plant:

Commissioned in December 2020, the recycled aggregate washing plant with a full water treatment system and filter press was designed by Tyrone International to fulfil the processing criteria for the material feed.

The material is based on an all-in aggregate feed, using a Tyrone International twin-screen scalper which scalps off the +50mm with the -50mm being fed up the primary feed conveyor.



Material passes under a belt magnet and is then fed onto a pre-screen to remove the -5mm sand. The remaining 5-50mm is then fed forward into a twin shaft log washer; a completely new design by Tyrone this incorporates a lot of new design features, including extreme ease of access for maintenance of all parts.

This improved access philosophy is seen throughout the plant and also on the trash and dewatering screen.

Fintan McKeever – Director of Tyrone International, took us through the process, "After passing through the log washer, material is then fed onto a rinsing screen which removes any sand that has been carried through the log washer.

"This gives the stone a final rinse before being fed through a further two transfer conveyors and under a second belt magnet and then onto a 12 x 5 double-deck sizing screen where clean 10/20/40mm aggregate is produced.

Any fine sand collected from the pre-screen, trash screen, dewatering screen and the log washer is collected in a large sump tank which is situated under the log washer. It is then pumped to a Linatex cyclone which removes the majority of the silt; the underflow of this passes down to one side of a high-frequency dewatering screen which is fitted with spray bars. This washes the fine sand with any remaining silt passing through the deck and into a pump tank situated under the dewatering screen.

From here the fine sand is pumped up through a secondary Linatex cyclone which removes the remainder of the silt with the underflow passing on to the other side of the sand dewatering screen. Coming off the end of the dewatering screen there is the facility to blend as much, or as little of the fine sand back into the coarse sand to make any particular grading."

All the trash material, polystyrene, plastics and small pieces of organics, wood exit the top of this cyclone with the silt and then flow by gravity down to a large high-frequency dewatering screen fitted with stainless steel wedge wire. This removes all the +1mm trash material, (keeping it out of the water treatment system); which is then deposited into a large skip.

The silt fraction and the water flow into the centre weir of the thickener tank where flocculent is added. Here the silt particles bind together and settle at the bottom of the thickener where a large rake is situated. Rotating slowly this rake incorporates large ploughs which pull the silt particles towards the centre. Because the ploughs are large a very thick high-density sludge is achieved.

Fintan, added, "The rake can be raised and lowered to eliminate any issues with blockages and allows full control of the density of the silt. If the silt gets too thick the rake can plough back down through it allowing ultimate control of the density."



A positive displacement pump to extract the sludge out of the centre of the thickener is then pumped across to a large sludge holding tank where two stirrers keep the silt in suspension. From here a twin centrifugal pump fills the press and when the filter press is full the system automatically switches from the centrifugal pump to a piston pump which uses significantly less energy than the centrifugal pump and contains no wear parts compared to the centrifugal pump hence an exceptionally low operational and maintenance cost.

When the water has filtered out of the cakes in the press then the pumps will stop and then the press will automatically open and discharge ten cakes at a time.

The Fraccaroli & Balzan (F&B) over beam filter press:

The Fraccaroli & Balzan overhead beam filter press at RMS offers so much more than other presses in the marketplace.

Fintan gave us the facts. "The Fraccaroli & Balzan overhead beam filter press at Dagenham has 210 - 2 x 2 metre square plates which is the largest over beam press installed in the UK Aggregate Recycling Industry!

"The key thing about this press is that the overhead beams sit to the side which allows full access to everything on the top; unlike traditional overhead beams where everything sits in the middle and include a chain drive mechanism and hooks on the chains to open the plates.

"Eventually all those hooks and the chain wear out and if you get a press 'blow out' sludge will cover all the mechanism making it extremely hard to access and maintain everything. On the F&B press, maintenance is super easy as everything sits to the side and there is full access round all sides of the press."

Fintan, continued, "There is a robot mounted on top of the press which has three functions – it opens ten plates and then shakes them and discharges ten plates at a time which other overhead beams don't do and also operates the automatic washing system which washes from the top down. This is completely different as alternate systems wash from the bottom up.

"It's an extremely fast system and the only press in the country that has a completely flush floor so when the 'bomb doors' close up it is completely flush allowing you to actually walk through the plates making it extremely easy and safe to change the filter cloths, whereas on other presses it is more challenging to access everything.

"The whole system is automated, we have full remote access to all the control on the plant so if there are any alarms, operator problems or issues we can remotely dial into the plant and can access all the alarms and the history and can then offer advice to the plant operator as to what he needs to action.

"The whole design philosophy of this plant is making everything as easy as possible, easy to access, easy to maintain, easy to service which has been a total success."

Remote access for the plant is from Tyrone and for the press, F&B in Italy.

Ensuring an effective plant on a daily basis:

The plant is fitted with a belt weigher to monitor the tonnage fed into the plant; additionally, remote data management can determine what time the plant started and stopped, including how many minutes the belt runs empty, what time the operator started to put material into the plant, which is basically to encourage better utilisation, better throughput of the plant.

All the components of the plant have been designed using top quality components that are available in the marketplace and all structures are galvanised, all paint is marine specification due to the location of the plant next to the Thames so the plant should be as good as it is now in five-years' time.

"Delivered in the striking company red and white this state-of-the-art plant is something rather special and marks a significant step forward in plant design and Tyrone International are to be applauded for this versatile and efficient processing system, said John Edwards-Editor HUB-4".



About Tyrone International:

Tyrone International are based in Dungannon, Co. Tyrone, N Ireland and are suppliers of premium recycled aggregate washing and water treatment plants. They supply single sand plants to complete turnkey installations all driven by an expert and time-served team.

Wash Plant solutions include, Wet Classification, Water & Sludge Treatment, Screening & Scrubbing & Attrition.

A range of applications include Sand & Aggregates, C&D Waste Recycling, Mining, and Industrial Sands.

Fintan McKeever – Director, commented, "We are currently in the process of launching a number of innovative new products which will maximise customer production whilst reducing the cost of ownership. As a company we bring years of industry experience to supply innovative bespoke aggregate washing and water treatment plants which have a clear focus on customers' needs, plant efficiency, ease of maintenance and after-sales support."

New unique and versatile TANA 440 Series shredders

The popular TANA 440 shredders have been further improved in response to feedback from customers and dealers. First new model of the 440 series is the TANA 440DTeco shredder which is even more versatile, more productive, and easier to use.

The versatility, productivity and ease-of-use of TANA 440 shredders have all been taken to a new level, following improvements suggested by customers and dealers. The TANA 440 has traditionally been the company's most popular shredder. It is used especially for processing challenging waste fractions, such as mattresses, tires, plastics, cables, and textiles. Versatility was already a major advantage of the TANA shredders, and the new 440DTeco now has even more applications.

The biggest change externally in the TANA 440DTeco shredder is the new higher machine frame, which allows over 200mm more space between the conveyor and the rotor on track models. The new frame structure allows more space for material flow underneath the rotor, helping especially with the pre-shredding of bulky materials, such as plastics and mattresses. Similarly, the new hopper design features a raised wall to prevent unshredded materials from falling onto the discharge conveyor.

In addition to the traditional 33-knife rotor, there is also the new option of 44 knives for added shredding performance. For example, the 44-knife rotor increases capacity / output in tire shredding by 25 %. The extended rotor offering also includes options for heavy duty use and for optimizing operating costs. In addition, with the updated labyrinth seal the rotor end structure has improved to protect the gearbox from external objects and disturbances.

Clean and efficient flow of materials

The flow of materials through the shredder has been improved in many ways in the new 440 series. This further increase productivity and improve the quality of the end product.

The cleaning combs are now bolted on instead of welded enabling a quicker fix when needed. Different cleaning combs are available for different purposes. Shorter combs are for tougher materials and coarse shredding to ensure the best durability and wear resistance. Longer combs are for easier materials and fine shredding to ensure the best output quality in terms of homogeneous particle size. Bolt-on cleaning combs also make maintenance easier because it is easy to replace damaged ones.

The conveyor system has been completely redesigned. The new structure features two separate conveyors: a transfer conveyor underneath the rotor and a discharge conveyor in the end of the machine. The speed of both conveyors can be adjusted separately. The frame of the discharge conveyor is now self-supporting enabling effortless angle adjustment, even during operation. Also, the scale system calibrates itself automatically depending on the discharge conveyor angle. The optional over-band magnet also features many updates: the magnet has been repositioned higher allowing larger metal piles, the space between the magnet conveyor and the discharge conveyor can be adjusted hydraulically during operation, and the discharge side can be changed.

The new TANA Control System (TCS) features a touchscreen display on the side of the shredder that is used to control all the machine's functions safely and in one place. The new user interface is extremely easy to use and helps the operator find the most efficient settings for each process. The new and improved TCS with added sensing and updated electrical control enables operation to be more efficient and precise. The operating system can be updated remotely and the TANA ProTrack® information management system helps optimize the shredder's utilization rate and save fuel.



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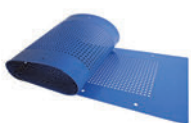


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