

Compact on the road, wide coverage on site

50 M5 XXT Truck mounted concrete pump

Introducing Liebherr's newest truck-mounted concrete pump, the compact 50 M5 XXT, which has an operating weight under 40 tonnes, a boom capable of large vertical and horizontal reach and the flexibility to operate in tight spaces.



TOTAL *Styrelf*[®]

Performance, made to last



The Mersey Gateway toll bridge connecting Widnes and Runcorn in Cheshire

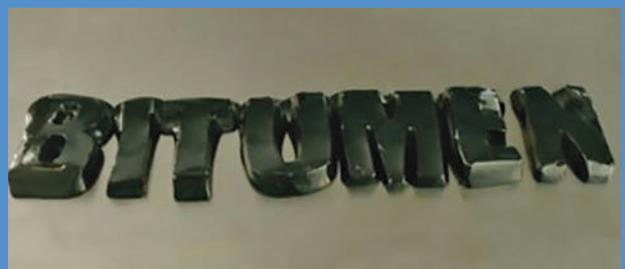
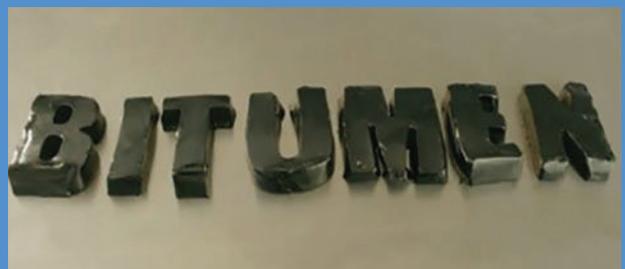


Sustainability through durability with Total Styrelf®

“We need a PMB for this job!” said the specifier. The assumption is that all polymer modified binders are same? This is a common misconception amongst contractors and unfortunately even specifiers! Bitumen is a complex material with very useful engineering properties particularly its adhesion and waterproofing qualities. Bitumen has thermoplastic and viscoelastic properties bringing both benefits and inherent limitations in its unmodified form.

Unlike water which is a solid at freezing temperatures and liquid at room temperature bitumen displays both solid and liquid behaviour at all temperatures. This non Newtonian behaviour is tricky to understand. There is a competition to find which characteristic will take precedence in a given situation dependent on factors such as temperature, load and frequency of loading.

Increasing temperature means the bitumen takes on more liquid behaviour. This is useful for transporting the product in pipelines and for the coating of aggregates.





Reducing its temperature the bitumen takes on a more solid form and as temperatures drop further a stiff even glass like brittle nature. This is why when applied to structural design any stiffness quoted for bitumen or ultimately asphalt is only relevant for the temperature the testing is performed at.

Increasing frequency of loading (faster loads) mean the bitumen takes on more of a solid or stiff nature whilst decreasing frequency of loading means the bitumen takes on more liquid behaviour. This is why rutting is most common at traffic lights, HGV lanes and bus stops where slow or static loads are encountered.

Conventional or penetration grade binder is limited in its ability to meet a wider range of temperature and load variations. This is where polymer modified binders (PMB's) can start to stretch the performance characteristics of the binder and ultimately the asphalt mixtures they are added to. PMB's can increase the range of serviceable temperatures the bitumen can remain both solid enough to resist softening at high temperature but yet remain flexible enough to resist cracking at low temperature.

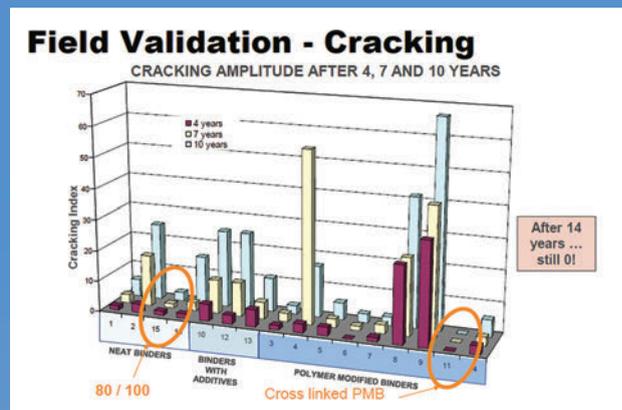
These shifts in characteristic performance can be identified by parameters such as plasticity range.

According to the standard BS EN14023 which is The Specification Framework for Polymer Modified Bitumens. This property is the numerical difference between the softening point (high temperature) and the Fraass point (low temperature cracking point) of the binder. Therefore a PMB with a softening point of 75°C and a Fraass of -18°C would have a plasticity range of 93°C. In comparison 40/60 penetration grade with 50°C softening point and -2°C Fraass would have a plasticity range of 52°C. Comparisons can be made between PMB products based on the various test parameters within this standard.

There are almost as many polymers as there are asphalt mixtures available and understanding this is one aspect of getting the most from an asphalt design. SBS, EVA, SBR, crumb rubber even plastic can all be added to bitumen to alter its characteristics. Understanding the contribution the particular polymer will impart to the bitumen is the key to improving the fundamental behavior of an asphalt mixture in service.

It is still possible to find specifications asking for a "PMB" in the bitumen column of the specification. This is a symptom of a lack of knowledge around the presumed "black art" of PMB selection. There are many PMB's available and their selection should consider the application and the previous failure modes encountered on site. A blanket "PMB" specification could mean anything from "a sprinkle of unspecified fairy dust" to a highly modified elastomeric product. Get this wrong and apply an inappropriate treatment to the highway it will increase the possibility failure or introduce a previously unseen failure mode.

It is possible to prove this with Swiss' Lavoc study, independently conducted by the University of Lausanne. In 1988, 16 sections of the highway of Canton to Valais were constructed using the same asphalt designs and foundations but with 16 differing binders. The trial used a selection of modified binders and penetration grade binders. Each section was monitored over a 14 year period with a "crack measuring index" used in each section. The test included penetration binders, additivated, plastomeric and elastomeric PMB binders. The results show some of the binders that used additives and PMB's actually cracked sooner than the unmodified penetration grade binders! This indicates those binders displayed early ageing, brittle or over stiff characteristics poor in fatigue resistance.

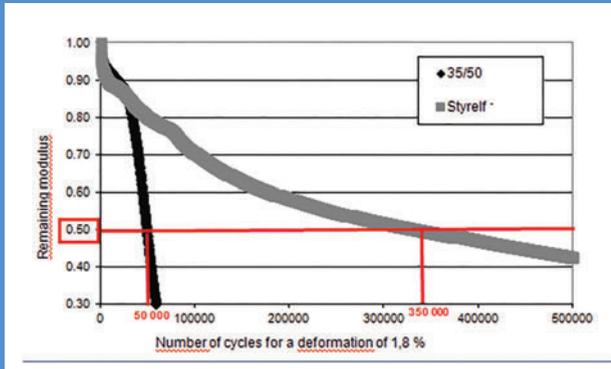


After 14 years the only section still intact was the section using Total Styrelf® elastomeric cross linked PMB. All 15 of the other sections had been replaced. This section was left in place. The section was still serviceable after 20 years proving the long term durability of the Total Styrelf® product.

To further explain plastic and elastic behaviour - a polymer can be elastomeric (e.g. Total Styrelf®) or plastomeric - using plastic modifier.

Elastomeric Polymers bring additional cohesion improving strength, fretting resistance, deformation resistance and are particularly valuable in reducing the effects of fatigue. Fatigue resistance is crucial where cracking through either thermal movement or reflective cracking may have been a previous failure mode or a predicted model in situations such as concrete overlays, bridge decks or evolved roads with uncertain structural integrity.

Plastomers tend to impart stiffness which can be useful if and when this is required but are less valuable in fatigue resistance. Elastomer PMB's impart elastic recovery characteristics where plastics resist deformation with stiffness but deformation is permanent or in engineering terms "plastic deformation" once load tolerance is exceeded.



When selecting a PMB it is important to understand which characteristic is required in the end product. Selection should be based on a holistic three dimensional design considering fatigue characteristics, stiffness, material handling and compaction capabilities. Using the softest binder that can withstand the forces to be applied is generally the best way to avoid cracking.

The production of PMB involves the dispersion of polymer units in bitumen. Performance is dependent on bitumen type and grade, polymer type, polymer size and quality of dispersion. In the case of cross linked PMB such as Total Styrelf® an additional manufacturing step which "cross-links" the polymer units is employed. Using these chemical bonds the polymers become networked and act as a single unit or "polymer matrix" within the PMB.

Sustainability through durability!

As understanding of PMB performance spreads it is certain that asphalt products will benefit in terms of durability. This in turn implies the whole life performance and asset management of a structure can become more predictable.

A recent scheme benefiting from Styrelf technology is The Mersey Gateway toll bridge connecting Widnes and Runcorn in Cheshire. A strategic route for South Liverpool as such requiring minimal future maintenance interventions. Total Styrelf eXtreme 100 PMB was chosen in the asphalt layers for over ten kilometers of network here by contractors Tarmac. This highly modified cross linked PMB is a premium product with high elasticity and fatigue resistance. Used on the bridge decks for these reasons it will give years of enhanced service extending the design life of this critical pavement. This PMB grade can be used in a multitude of asphalt designs including CL943 HRA, CL942 TSC and Scottish TS2010 SMA.

The Total Styrelf® range also incorporates lower temperature technology with Total Styrelf ECO2®. The addition of warm mix additives to Total Styrelf®

allows a temperature reduction of up to 40°C during the mixing stage of asphalt production. This has many benefits.

Warm mix asphalt is becoming seen as beneficial not just in terms of environmental gains from energy reduction but for the benefits it brings to the material, contractor and client. Lower temperature imparts less premature ageing of the product. Improved compaction is often cited, greater tolerance to travelling and speed of opening the newly surfaced road to traffic are all tangible benefits of these systems.

A recent example of this was collaboration between Highways England, Tarmac and Total Bitumen on the refurbishment of the A66, Penrith to Kirkby Stephen. Productivity gains allowed 1000 tonnes of asphalt per shift to be installed. Total ECO2® technology was used in the binder course and surface course. Despite Storm Callum hitting during the scheme works were completed on schedule.

Pre blended warm mix PMB removes the manual addition of additives at the asphalt plant while reducing energy consumption and emissions moving the industry in a responsible sustainable direction.

It is possible now to engineer PMB's to specific applications. The Total Styrelf® portfolio includes tailored PMB's such as Styrelf Intakt® for resistance to fuel and chemical corrosion such as encountered in airfield applications. Motorsport specific Total Styrelf GP® is designed to withstand the stresses, strains and shear forces encountered on Formula 1 tracks being applied to areas such as the Monaco GP.



Sustainability through durability is the responsible direction of the modern supply chain which is driven by the current drive for improved highways asset management.

If you would like to learn more about bitumen technology why not try the "MOOC" the Massive Open Online Course. MOOC is free to access and can be completed in your own time.

For more information visit www.total.co.uk/our-products/bitumen



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Welcome to issue 53 the last issue of 2018

This issue includes our 'Made in Northern Ireland' feature; a 60 page in-depth look at the manufacturing sector in Northern Ireland. Illustrating the Northern Ireland powerhouse at its best these featured companies have world-wide reputations and serve the quarrying, recycling and bulk handling industries in many countries.

We also have our regular reports on the Quarrying, Recycling and Bulk Handling sectors including the latest news.

In comparison to this year 2019 is a relatively quiet year as far as exhibitions are concerned with PlantWorx holding their bi-ennial UK show in June and the huge bauma show in April in Germany.

We will of course be at both and hope to see you there in 2019.

Lastly don't forget we now have our 2019 editorial features available, please let us know if you require a copy.

John Edwards

Editor



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

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Sales & Advertising Enquiries:
+44 (0) 20 3637 0385

Editor
John Edwards
+ 44 (0)7710 653424
john@hub-4.com

Global Sales Manager
David Roberts
+ 44 (0)7857 152184
david@hub-4.com

Social Media Manager
Sophie Morgan
sophie.morgan@hub-4.com



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Liebherr recently unveiled its new 50 m truck-mounted concrete pump: the 50 M5 XXT

This is the latest addition to Liebherr's rapidly growing portfolio of truck-mounted concrete pumps and with an operating weight of less than 40 tonnes and a multi-folding five-section boom capable of reaching up to 49.1 m vertically and up to 44.4 m horizontally, the new pump is both compact and highly flexible.

As Simon Cook, General Manager for Concrete Technology at Liebherr-Great Britain Ltd, explains, the all-German made Liebherr 50 M5 XXT is built with robust components and simplified electronics: 'We wanted to provide customers with a heavy machine that they could be confident would be structurally safe and sound in operation and last for many years.'

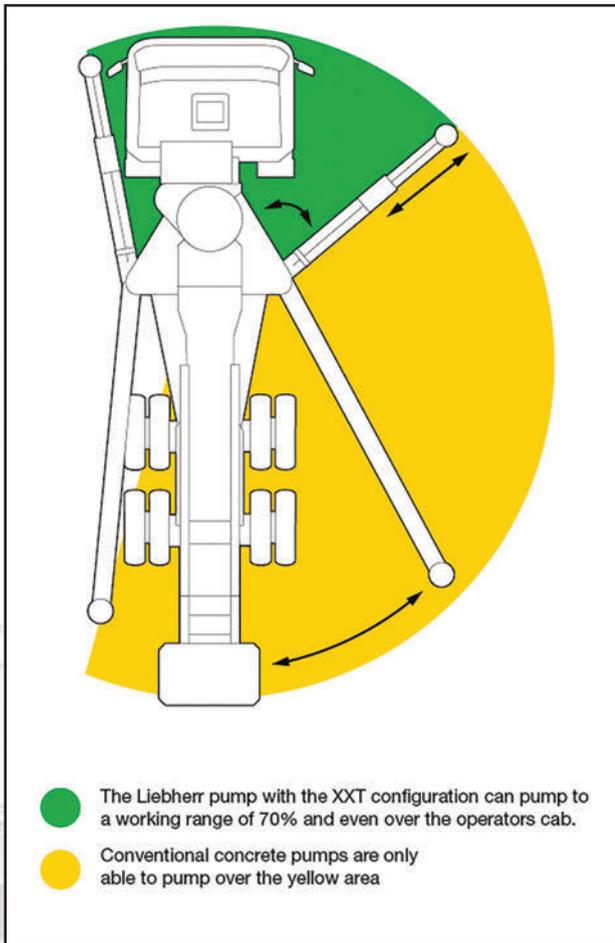
For this reason, the machine is light on electronics, with just relays and a sealed computer board, and the hydraulics are also simplified. A proven open loop design is used for the hydraulic system, which enables the hydraulic oil to be used efficiently. 'Unlike most of our competitors, we don't have an accumulator

circuit. Instead, we use the main pump to drive it. This takes a hydraulic pump out of the system, eliminating failure, and more pressure can be sent to shift the S-Valve, which translates into being able to pump harsher, coarser mixes,' said Simon.

Maintenance is also simplified with the use of components common to all the Liebherr concrete pumps. 'All the machine parts that are subject to wear are interchangeable between Liebherr concrete pumps. This means that fleet owners don't need to keep a stock of parts in multiple sizes because they are all the same. And the one-piece design of the concrete pistons and cups means that they are easy to remove, which again simplifies maintenance,' said Simon.

In total there are four different pump units available for the 50 M5 XXT with outputs of between 138 m³ and 167 m³ per hour. Two of these variants are long-stroke versions with a conveyance stroke of 2,400 mm. The pump is load sensitive and because it is shifting with just enough pressure for the concrete load it is dealing with, there is a reduction in unnecessary wear, meaning that the parts last longer.





Liebherr is the only manufacturer to supply the patented XXT narrow support, which is extremely stable and warp resistant. All four outriggers on the 50 M5 XXT are pivotable. 'This is a huge benefit on construction sites with limited space because it gives

you high levels of flexibility when setting up,' said Simon. 'You gain more than 180-degrees working range on the boom,' he added. The front and rear outriggers pivot on the same point. They are fixed directly to the distributor boom pedestal, which directs the weight from the boom directly into the outriggers with no flexing of the body of the truck. With the newly-designed boom pedestal, Liebherr has kept the weight down and simultaneously increased stability. The slewing ring and drive are proprietary Liebherr components.

Liebherr's truck-mounted concrete pumps can be used with chassis from different manufacturers. Depending on the chassis, the total length of the 50 M5 XXT is around 12 m in the transport position. The new boom is particularly compact and has virtually no projection, which guarantees safe driving properties and exceptional handling on construction sites. In Europe, the 50 M5 XXT is mounted on a standard, five-axle chassis (10 x 4). And with an unladen weight of significantly below 40 tonnes, there is sufficient spare weight for accessories. Liebherr offers a wide range of optional accessories and equipment for the 50 M5 XXT with customers able to choose from additional storage compartments, a modular water tank or additional steps on the left-hand side.

Simon Cook concluded: 'In developing the new 50 M5 XXT, Liebherr has addressed the needs of its customers in terms of transportation, flexibility of set-up, efficiency of output, safety and stability, robustness, ease of maintenance and operator comfort. We very much look forward to hearing how this latest truck-mounted concrete pump model is put to work.'

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WCRS calls for a more consistent approach to plastics recycling across the UK

Waste management company Waste Cost Reduction Services (WCRS) Ltd has called for a more consistent approach to recycling across the United Kingdom following a recent report by the BBC into the variations in recycling practices.

While the report shows the majority of people regularly recycle plastic, the many different ways in which recycling is collected by different councils across the UK has left them confused, with 47 per cent of people disagreeing at home over what should and shouldn't go in the plastic recycling. BBC analysis also shows there are 39 different sets of rules for what can be put in plastic recycling collections, with most collecting bottles but only some collecting pots and tubs.

"The report highlights the inconsistency and confusion across local councils when it comes to what you can and cannot recycle – and how it is collected too," says Robert Logan, Managing Director for WCRS. "We would like to see more uniformity and an increased breadth in recycling and better communication with householders. With less than half of the plastic waste in the UK recycled, we need to do better!

"A significant proportion of plastic waste comes from UK households with the average household throwing away around 40kg of plastic a year. It is therefore crucial that there is a more consistent approach to the problem so that the

much needed infrastructure can be implemented for plastics recycling in the UK. This will help to ensure there are better solutions available for both businesses and consumers when it comes to recycling plastics."

WCRS would like to see the government consider imposing measures such as using new clearer recycling labels on plastic, and encouraging manufacturers to use only more easily recycled plastic. All four nations are looking to improve recycling rates with England aiming to recycle 50 per cent of all waste by 2020.

"We know from experience that managing waste is all about communication, helping those within a home or business understand exactly what can and cannot be recycled," explains Robert. "This report highlights the confusion within households about what can and cannot be recycled, with 47 per cent of households, there are debates on what can and can't go into certain bins. If we are to meet our recycling targets in the UK, then this consultation will hopefully be a move towards a more consistent approach."

WCRS recently launched a waste jargon buster to help people understand the often complex terminology associated with managing waste.

For more information about WCRS at <http://www.wcrsLtd.co.uk/>

New Doosan DX225SLR-5 Super Long Reach Excavator

Doosan Construction Equipment has launched a new super long reach version of the company's Stage IV compliant DX225LC-5 crawler excavator.

Featuring 8.5 m boom and 6.2 m arm components, the new DX225SLR-5 excavator is an all-round machine, ideally suited for jobs such as excavating lakes, cleaning settling banks, drainage work, digging in sand and gravel pits, slope forming and other long reach work.

To carry out these applications, the DX225SLR-5 has a maximum digging reach of 15.38 m, a maximum digging depth of 11.65 m and a maximum digging height of 13.08 m. The bucket digging force is 10.0 tonne and the arm digging force is 6.0 tonne.

With an operating weight of 24.4 tonne, the DX225SLR-5 is powered by the well-proven 6-cylinder, turbocharged Doosan DL06P water-cooled diesel engine, providing a high power output of 124 kW (166 HP) at 1800 RPM. As a result, the DX225SLR-5 combines its super long reach capability with unmatched high performance, operating features, fuel efficiency, reliability and durability.

Trouble-free Operation

The DX225SLR-5 offers convenience and lower costs by meeting Stage IV emission regulations through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies. With the DL06P engine, the DX225SLR-5 ensures trouble-free performance as it operates without the need for a diesel particulate filter (DPF).

As well as the DL06P engine, which is one of the most reliable and fuel efficient ever produced by Doosan, new innovative and exclusive features have been introduced providing an overall 9% increase in fuel efficiency. Among these features is the new 'Trip Meter Setting' screen which allows operators to check fuel consumption daily (or over a desired period) directly from the control panel and to save even more fuel, there is a special Doosan-developed system, Smart Power Control (SPC), to optimise the balance between the pumps' output and the diesel engine.

The Auto Shut-Off feature saves on fuel and warranty hours. When the feature is enabled, the engine shuts down after it has been idling for a specified amount of time (3-60 minutes, configurable by the operator).

The DX225SLR-5 is factory-installed with the DoosanConnect state-of-the-art, wireless fleet and asset management system for the company's excavator, wheel loader and articulated dump truck ranges.

Designed to meet increasing demand for fleet monitoring, machine-to-machine communication, machine intelligence and remote equipment monitoring, the DoosanConnect system offers a web-based fleet management solution which is very useful for monitoring the performance and security of



machines and promoting preventative maintenance. It is available as a standard feature on all new generation Doosan Stage IV compliant excavators (from 14 tonne), all new generation Doosan Stage IV compliant wheel loaders and the new generation Doosan Stage IV compliant ADTs.

The new service allows owners and dealers to remotely monitor and communicate with Doosan machines via the DoosanConnect telematics website. Also available for retrofitting in a kit form, the DoosanConnect system is supplied with a free 3-year subscription and customers are provided with their own account so that they can manage the machines in their fleet using the system. Once the 3-year complementary period expires, customers have the option to purchase a service extension.

Spacious Ergonomic Cab

Already excelling in spaciousness and ergonomics, the cab on the DX225SLR-5 is bigger than that in the previous DX225SLR-3 and has been further refined for outstanding operator comfort and ease of operation. The features offered as standard in the cab are among the best in the market and include super controllability with a system that enables attachments to be operated from either the joystick or a two-way pedal. The operator can select 10 pre-set configurations for attachments and hydraulic flow and pressure data can be pre-selected directly from the control panel, allowing a quick change of attachments without the need for a manual set-up.

The joysticks have also been shortened to reduce the effort required to operate them and an additional pedal for straight travel has now been installed on the left of the main travel pedals, a very useful feature when travelling straight over longer distances. The operator console has been moved onto the seat suspension to reduce vibrations. This gives the operator much better control with the joystick in rough operation.

Lower Total Cost of Ownership

Like all Doosan '5' excavators above 20 tonne, the DX225SLR-5 incorporates a thicker inside plate in the arms and booms, providing front reinforcement to relieve stress concentration and a different welding method has also been applied. To further maximise durability and reduce noise, all '5' models are equipped with EM (Enhanced Macro-surface) bushings, which are also much more effective than regular bushings when greased.

Air pre-cleaners are fitted as standard on the DX225SLR-5, to blow much of the dust, dirt, insects, rain and snow out of the air intake, to ensure cleaner air is sent to the engine air filter. This extends air cleaner servicing intervals, enhancing uptime and productivity. Doosan has also added protection to the inner cab air filter and redesigned the cab air-conditioning filters for easier replacement.

A Trimble Ready option is available for the DX225SLR-5, enabling a faster and simplified installation of Trimble® 2D or 3D Grade Control System components – with no welding, repainting, drilling or disassembly required.

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



Brief specifications for the Doosan DX225SLR-5 excavator

- | | | | |
|--------------------------------------|------------|------------------------------------|-----------------------------|
| • Operating weight: | 24.4 tonne | • Rear swing radius: | 2795 mm |
| • Digging depth: | 11650 mm | • Digging force over bucket (ISO): | 10.0 tonne |
| • Digging reach: | 15380 mm | • Digging force over arm (ISO): | 6.0 tonne |
| • Digging height: | 13075 mm | • Travel speed: | low range – 3.0 km/h |
| • Overall width (with 800 mm shoes): | 3190 mm | | high range – 5.5 km/h |
| • Height: | 3275 mm | • Engine (SAE J1995 net): | 6-cylinder Doosan DL06P |
| • Overall length in travel position: | 12360 mm | Stage IV (EGR/SCR), | 124 kW (166 HP) at 1800 RPM |



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New President Steps Up at Institute of Quarrying

The Institute of Quarrying (IQ) has announced the official inauguration of its 69th president, following the completion of the outgoing president's two-year tenure.

Phil Redmond FIQ is Managing Director of Hanson Aggregates UK. He steps up to his new role as IQ's president after two years as the Institute's chairman.

With more than 30 years-experience in the quarrying and construction materials sector, Phil is widely recognised within the industry and takes over the role from outgoing president Dr Miles Watkins.

Commenting on his new position, Phil says: "I am extremely proud of my IQ membership and I take a very active role in our industry, so it is with great pleasure that I will now represent the Institute at a critical time for both the industry and our members.

"Looking ahead, we must ensure that we attract and engage a diverse new generation of professionals to deliver the essential products that are vital for our economy, as well as embrace internationalisation and digitalisation to revolutionise our industry over the next decade. These are priorities that IQ is already working on to ensure we can face these challenges and I look forward to playing my part in preparing IQ for the future.

"It goes without saying that I'd like to thank our outgoing president and colleague Miles Watkins for his commitment to IQ over many years, and in particular the last two years, as president. He has fulfilled the role with great energy and passion, which I intend to continue and build on."

Outgoing president Dr Miles Watkins has also stepped down from the Board after almost 20 years of active engagement with IQ. He says: "I owe a great deal to the Institute for the

professional development opportunities provided to me over the years and it has been a privilege to represent our industry at the highest level.

"During my post, I had the pleasure of celebrating IQ's centenary. My lasting memory of the year was winning a hat-trick of awards for the IQ Quarry Garden at RHS Chatsworth. As we look ahead to the next 100 years, in our new president we have a passionate individual who I am certain will drive forward the goals of the IQ."

James Thorne, Chief Executive Officer, IQ, adds: "Over the next two years, and beyond, Phil's international experience at Hanson Aggregates UK will be fitting as the Institute focuses on creating a truly global organisation that is fighting fit for the future.

"Phil joined IQ UK earlier this year at the annual QuarryNZ Conference where we launched the International Presidents' Fund; the Institute's first truly global collaboration. It has been created and agreed by all regions and is owned and financed equally. The Fund presents a fantastic opportunity for each IQ to work more closely together for the local advantage of our many thousands of members."

At the presidential handover on September 21, IQ also announced Martin Riley as its Chairman and Viv Russell as Deputy Chairman.



Dennison JCB lands seven machine deal from Demenex

JCB's new Northern Ireland dealer Dennison JCB has delivered its first machines to a long-standing JCB customer which set up business 33 years ago with just a single 3CX backhoe loader.

Now a leading plant hirer and commercial property developer, Demenex – which boasts offices in Newry, Belfast, London, Birmingham and Glasgow – became the first fleet customer for the newly appointed dealer earlier this year with the purchase of seven new JCB models.

Demenex has bought two 15C-1 mini excavators and two 8026 mini excavators, 535-125 HiViz and 540-140 HiViz Loadall telescopic handlers and the new 3CX backhoe loader which mirrors the company's first ever purchase in 1985.

Director & Founder Peter McCamley said: "Since the inception of Demenex in 1985, we have always been a loyal fan of the JCB product. Our first item of plant was a JCB 3CX which I drove myself, while my wife Carmel dealt with the enquires. By the end of 1985 we had already added four more JCB 3CX models to our fleet. Our business grew slowly and steadily thanks to strong foundations and a faithful JCB backhoe fleet which grew larger year on year.

"We chose JCB for these latest machines due to the product reliability, service, price, back-up and an excellent trading relationship with its dealer network. All of the new equipment has performed flawlessly. That is typical of what we have come to expect from JCB and the reason we still retain JCB as the main brand in our fleet some 33 years later.

"It is not an exaggeration to say that JCB backhoe loaders were integral to our formation and have been to the success of our business. Without the 3CX, Demenex may never have come into existence.

"Our operators are passionate about the quality of work they provide and this is only possible by arming them with the best equipment available in the market place. Where time is

money, the combination of high quality operators and excellent, reliable JCB equipment keeps our customers returning time and time again. Demenex strives on a daily basis to reflect what we see from JCB - where a high quality service comes as standard.

"We now look forward to working closely with Rob Ireland and his team at Dennison JCB. They have already provided great assistance and a service which has been second to none. In conjunction with JCB itself they delivered us a package that was just unbeatable."

Established in 1985, Demenex offers self-drive or operated equipment rental and commercial design and build property development services throughout the UK & Ireland. Its predominantly JCB fleet includes backhoe loaders, excavators, telescopic handlers, site dumpers, wheeled loading shovels, crushers, sweepers, lighting towers and access equipment. These perform alongside a fleet of low loaders, tippers and grab lorries which haul recycled aggregates. All items of plant can be hired with or without a C.I.T.B. / C.P.C.S. trained operator and plant is available within three to four hours across the UK and Ireland and less than two hours within the M25.

Peter McCamley concluded: "Demenex is built on the strength of its workforce - some of whom have been with us since the year the business was founded – and our longstanding relationships with customers and suppliers. Elinor Gillen, our Group Manager, has been with us for over 20 years overseeing the administration side of the Group on a day to day basis alongside Carmel.

"We work together to bring projects to a first-class conclusion, which can mean meeting seemingly impossible deadlines. Our mission statement always been "Dedicated to a quality service" and with our son Liam and daughter Nicola on board, the whole family now works within the group, ensuring its success for the next few decades."

Barford Equipment launches three new machines and its International distributor network is also expanding rapidly

Barford Equipment, the UK based manufacturer of world leading track, mobile and stationary screens, wheeled and tracked conveyors plus trailers, has just announced three new equipment models meeting demand from global customers for high specification and competitively prices solutions.

“The world’s construction machinery, aggregate, quarrying and mining markets have long appreciated the equipment available under the Barford banner and over recent months we have significantly expanded both the range of machines on offer as well as the global distributor base from which they can be sourced,” explained Stephen Murphy, Distribution Manager for the Barford product range. “Barford is a well-known brand in the UK and across Europe, having built an enviable reputation and possessing a long and illustrious history, but it was relatively unknown in the US market; but that’s changing.”

The new Barford models being introduced this summer comprise the TR8048 Track Mounted Stockpile Conveyor; the BF7042 Tracked Mounted Bin Feeder; and the SM312, a Single Axle Mobile Double Deck Screen.

TR8048 Track Mounted Stockpile Conveyor has an 80ft reach and a 48” wide belt. It also includes a twin-drive discharge belt complete with hydraulic slew hubs and a Cat 2.2 turbo engine with hydraulic oil cooler and a remote control movement.

The BF7042 Tracked Mounted Bin Feeder has a 42” wide belt and an extended reach of 70ft. Other features include a twin-drive discharge belt complete with hydraulic slew hubs and a Cat 4.4 elect automation control movement. It also ships with a ‘Mulch’ option that has an agitator

attachment to break up material before it goes onto the belt) and there is a larger BF7048 Mulch variant.

SM312 Mobile Double Deck is a single-axle mobile 12X4 ft (3m x 1.29m) Double Deck Screen complete with double drive pump to suit auxiliary, extended folding fines conveyors and incorporates a CAT 2.2 37kw engine and removable towbar.

Earlier this year Barford successfully entered the US market, launching the SR-124 and the S-104, two new track mounted screener, to meet local demand. Both were previewed at the Spring Sale in Kissimmee, Florida in February coordinated by top auctioneers Yoder & Frey and proved to be the perfect event to develop brand awareness amongst prospective distributor representatives and buyers. As a direct result it has signed up a number of Barford Equipment distributors and the objective is to have one in each US state.

Further afield several new distributors have also been signed up in in Australia to cover both Perth and Sydney. The European network is also undergoing expansion with new distributors being signed up in several of the key EU markets’ but others are still being actively sort particularly those with direct mining, aggregate, recycling and construction sector knowledge and experience.

Barford tracked SR-124 and S-104 three-way split screeners

The two robust and refined Barford screeners launched earlier this year comprise: the SR-124 (pictured) a tracked three way split heavy duty screener, with a 12 x 4 screen box that fits into a 40ft HC container; and the S-104 a tracked three way split inclined screener with a 10 x 4 screen box that again fits into a 40ft HC container – Key features of the Barford range which have been incorporated through design to realisation.

The SR-124 is built around a Caterpillar power unit while the engine on the S-104 is produced by renowned British manufacturer JCB but is also available with a Deutz engine.

Other Barford manufactured products

In addition to the two tracked screeners being launched, Barford Equipment also manufacturers a range of straight and radial tracked and wheeled stockpile conveyors. Other products include: the D16, a 16 ton, twin axle dump trailer; The R15 / 15 ton twin axle rock trailer; And the L22, a 19 ton, 22ft long chassis twin axle low loader. There is also a range of screen boxes, the US40 with its 3.75m2 / 40ft2 total screening area being the most popular.

Other models provide 1.8M2 /20ft2 or a 6.5m2/70ft2 screening areas.





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The all-new 700 range of HSI crushers offers new levels of safety and efficiency. Developed to comply with new EU legislation, you can configure these smart, modular crushers to operate in a variety of applications in either primary or secondary crushing mode.

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Mark Bodell
Sales Manager England & Wales
+44 (0) 7725219305

Mark Fekkes
Sales Manager Scotland & Ireland
+44 (0)7710487866

Five more apprentices complete engineering apprenticeships at Miller

Earthmoving equipment manufacturer Miller UK has a long history of supporting local North East talent and this continues as five more final year apprentices complete their advanced engineering apprenticeship next month with Miller.

Introduced in 1988, the Miller apprenticeship scheme has been running for more than 30 years and there are currently a total of 17 previous apprentices who are still employed on a full time basis. As of the October that number is set to rise to 21 as four out of the five final year apprentices who have successfully completed their four year training course have accepted full time contracts with the Cramlington based company.

One of the well-known industry challenges over the last few years is a skills shortage and being able to recruit skilled workers with experience in heavy manufacturing. The Miller apprentices in coordination with TDR training have developed a range of heavy manufacturing skills including engineering, fabrication and maintenance.

Miller UK is rapidly expanding its business with a range of exciting new products, and the Miller apprenticeship scheme is key to delivering a pipeline of young local talent with the right skill set to contribute to these growth plans. Through maintaining a steady intake of apprentices, Miller is making an ongoing contribution to retaining important industry skills which both supports the regional manufacturing sector and the local economy.

Stephen Brown, Operations Director at Miller said "One of the challenges we face is a skills shortage and being able to recruit skilled workers with experience in heavy manufacturing. The apprenticeship scheme gives us the opportunity to invest in new young talent who can develop the necessary skills on the job". He added, "We're lucky to have the opportunity to develop the next generation of engineering and manufacturing talent and we hope that many of the apprentices joining us in October on a full time basis will go on to have long and successful careers at Miller."



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Made in
**NORTHERN
IRELAND**

BlueMAC experiences significant growth in the worldwide demand for MRF's

One of our first visits in Northern Ireland was to BlueMAC who are based at their new location in Dungannon, County Tyrone.



Originally formed in 2013 as the recycling arm of the Blue Machinery Group, BlueMac started designing bespoke Material Recycling Facilities. As with all new entries into a market this introduction to the recycling industry was challenging. However, as they progressed, and the first sale was made, it was clear that the design, manufacturing and installation of their plants was going to lead to success.

Initial sales were into the UK, utilising the sales team of Blue Machinery across the length and breadth of the country. However, during the second year BlueMac spread its wings and successfully installed its first international project into Kazakhstan.

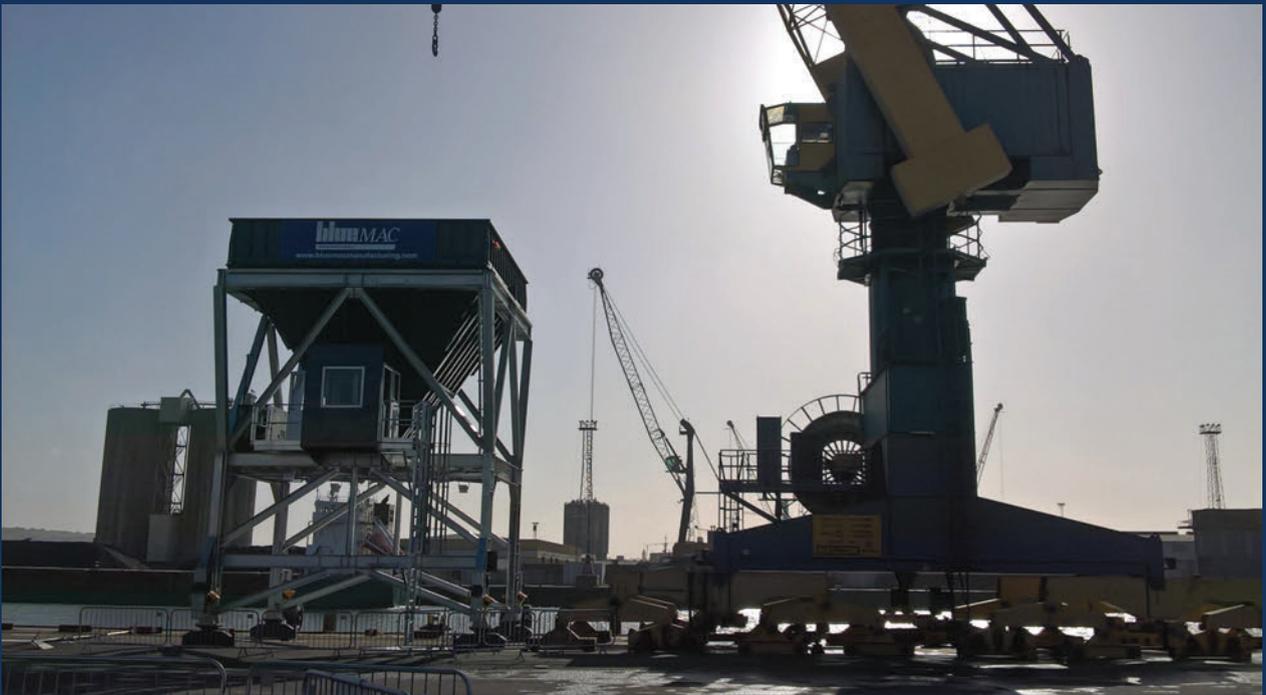
These first international sales were a steep learning curve for BlueMac with the added complications of the way some of the deals were financed using such instruments as Letters of Credit, Bonds and Guarantees. This however didn't deter the appointment of an Australian dealer that subsequently secured the first turnkey recycling system Down-Under. This success continued with a further 3 installations across the country, and numerous others continue to be on order today.

Increased demand:

With increasing orders the next challenge for BlueMac was to keep pace with demand;

General Manager of BlueMAC – Michael Strain took up the story, "This increase in demand has required us to increase our manufacturing partners. Previously our demand was able to be met with our sole manufacturing partner DMAC Engineering, who continue to provide us with a high-quality service. However, since the start of the year we have been introducing our product to a number of different manufacturers across Northern Ireland and England who continue to deliver a high quality product that meets our ISO requirements."

The BlueMAC team comprises of design and install engineers, an international sales team and project managers and as previously mentioned all backed up by the Blue Group Sales Offices across the UK.



“Because of this we have seen our turnover double and we can clearly see a strong future, forecasting a very strong 5 year business plan. ”

BlueMAC see their core business in designing MRFs, adapting the plant to accommodate multiple types of waste stream. However, last year saw a break away from this norm when, through the R&D arm of BlueMac they designed and supplied four off-loading hoppers for Belfast Harbour Commission which have been so successful that additional orders have been received this year.

This healthy order book is all credit to them and their hands-on-approach which has proved very successful in supplying a fully commissioned plant and a hand-over to the customer.

Michael, continued, “We are currently heavily involved in plant installations in Australia, Dubai and Sri Lanka and we are also very busy with several installations across the UK.”



“It’s very clear that there is a global change in relation to waste and we can see a genuine appetite for the drive to ‘zero waste’ . There is a great deal of growing concern over the management of waste in such regions as the Middle East, Egypt and Africa, all now developing targets for waste reduction. Even in the UK we are behind on 2020 and 2025 targets, meaning there needs to be more investment and strategies implemented closer to home.”

The last word came from Pat McGeary – Chairman of Blue Group, “It’s been a significant change at BlueMAC over the last two years. Although the supply structure has been changed the philosophy and ethos remains intact. It’s a fact that the company is more flexible today and able to cope with the growing demand we are experiencing. Certainly, with the strength and backing of the Blue Group our customers understand that we can support them for as long as they need!”

The future is certainly ‘Green’ for the waste industry!



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EDGE Innovate continue to expand and develop their manufacturing facility

HUB-4 went along to meet the EDGE Innovate team and take a tour of their manufacturing facility located on Farlough Road, Dungannon.



Located on a 15-acre site the company was established in 2008 and has experienced year on year growth. Currently EDGE Innovate are probably the largest family-owned manufacturing company in NI with a turnover in excess of £20 million.

Since our last visit two years ago EDGE Innovate have continued to expand their machine portfolio at a phenomenal rate thanks to an aggressive product development programme which has led EDGE to offering one of the largest product lines within the industry. EDGE Innovate believe no other UK manufacturing company can match their product offering which includes everything from material handling and tracked conveyors to slow-speed shredders. It's this aggressive ongoing product development that has retained their position at the forefront of the market.

With the ethos on in-house design the company are well equipped to design a solution based on customer requirements and provide them with a final bespoke product for their application.

Everything can be manufactured and built from scratch, from design, right through production and testing with a technical team of engineers ready to install and commission the machines as well as support the global distributor network.

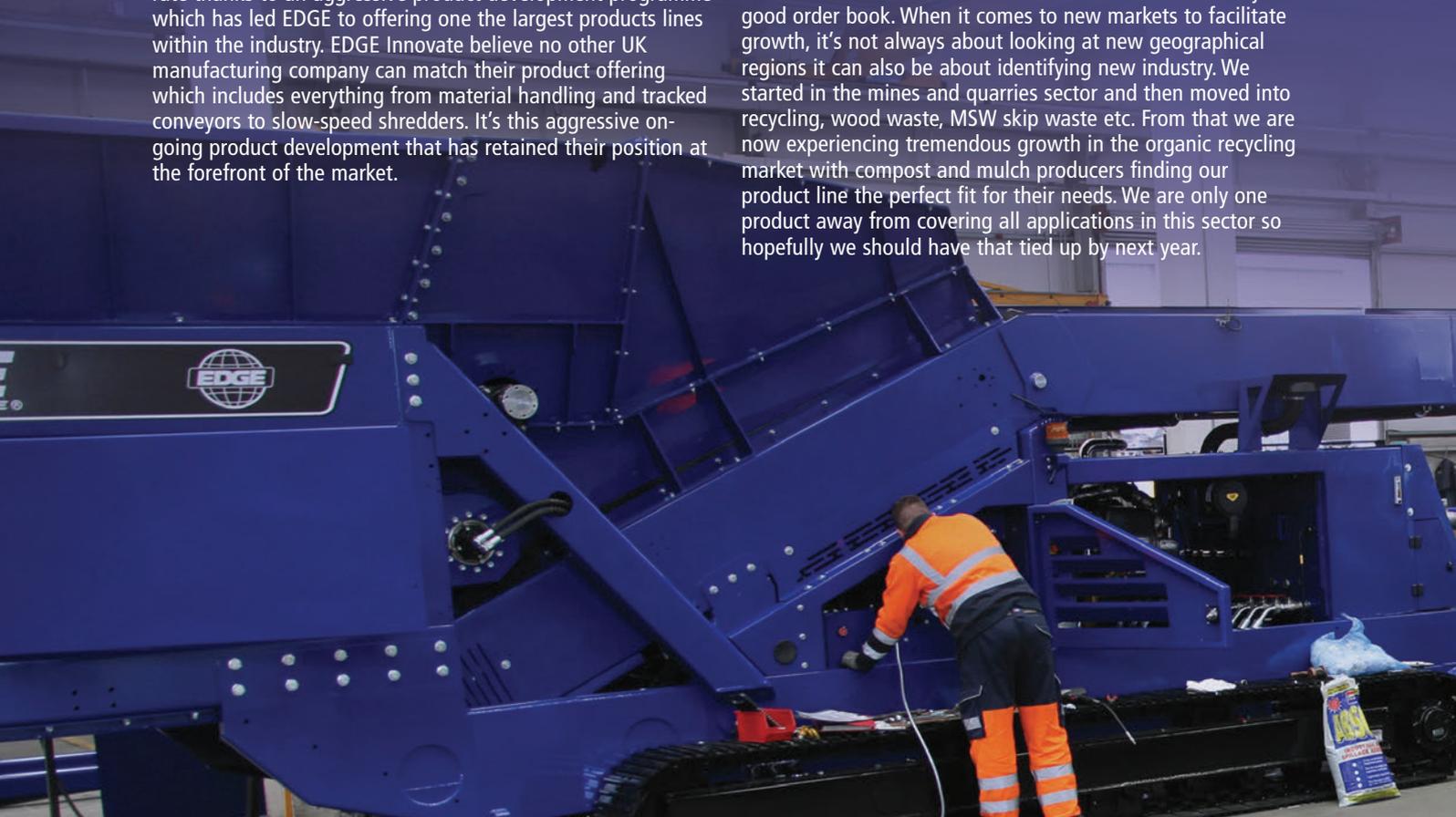
Increased workforce:

To match this growth the workforce has increased by 33% in the last 12 months and today the company has a five-year plan which will see an 20% increase in turnover by 2023 with in excess of 200 personnel being employed on-site.

We talked with Adrian Donnelly-Marketing Manager, who outlined the plan and forthcoming expansion. "We have planned major changes to the site which have started with a new car park which will see the main entrance move further up Farlough Road. These changes also involve a new office block which will contain a 'Welcome Centre' and a new training facility.

"In our search for new markets we have appointed new territory distributor managers in Latin America, Scandinavia and the Middle East. We recently sold a trommel and a wheeled shredder to a city council in Rio de Janeiro, Brazil which will serve as great reference point in that region.

"We are well established in the USA now and have a very good order book. When it comes to new markets to facilitate growth, it's not always about looking at new geographical regions it can also be about identifying new industry. We started in the mines and quarries sector and then moved into recycling, wood waste, MSW skip waste etc. From that we are now experiencing tremendous growth in the organic recycling market with compost and mulch producers finding our product line the perfect fit for their needs. We are only one product away from covering all applications in this sector so hopefully we should have that tied up by next year.





"In Australia we have shifted the emphasis from quarrying to recycling after the market changed and are now experiencing sales in excess of the original levels. Companies need to be flexible to maintain and grow their market share."

Investments in the production line:

Adrian continued, "We have a 5-year plan to increase sales by 20% and make significant changes to our operation. We have commenced work which will see our manufacturing facilities increase by almost 50%."

We are going to extend the facilities by moving the paint shop to the back of the site which will facilitate an increased in our covered manufacturing space increase from just under 89,000ft² to close to 141,000ft².



We have made big investments and recently installed two new XPR300 plasma cutters which are the first in N Ireland; they have made the cutting process much faster."

These new plasma cutters are quite special – the XPR300® represents the most significant advance in mechanized plasma cutting technology, ever. This next generation system redefines what plasma can do by expanding its capabilities and opportunities in ways never before possible. With unmatched X-Definition™ cut quality on mild steel, stainless steel and aluminium, the new XPR300 increases cut speed, dramatically improves productivity and slashes operating costs. New ease-of-use features and engineered system optimization make the XPR300 easier to run with minimal operator intervention, while also ensuring optimal performance and unmatched reliability.



Adrian, commented, "As well as the plasma cutters we have also invested in two new press brakes, a six-metre machine and 2 – four-metre machines which have increased our production capacity. Also, two new saws and a totally computerised CNC ficep drill. Currently we are using 2 tons of weld wire every month and with all these benefits for production we have now put our paint shop on two shifts and doubled the staff in the last two years!

In-house manufacturing:

Adrian pointed out that there is a big difference between EDGE Innovate and other manufacturers. For example; EDGE shredders are entirely produced in-house from the chassis right through the actual shredding chamber. This gives greater control on quality and lead times. He also told us that there are plans to

install a new quality control testing section within the new extension which will also house a designated R&D line, as currently when a new product comes through it can impact production and slow down parts of EDGE's production lines, as new products tend to take longer to produce.

Adrian, added, "Our stores department carry up to £10 million of stock so we can react quickly and ensure lead times are adhered to. Our motto has always been to source locally if possible and ensure stocks of conveyor belt, engines, and rams etc are at the levels required to avoid long lead times. It's all about projecting demand and making sure you are not susceptible to currency fluctuations and price increases. With the current level of sales our current lead time is approximately 12 weeks.

It's an interesting fact that in a relatively short period of time; EDGE Innovate has transitioned from a sub-contract engineering firm to becoming a manufacturer of its own products in their own right. Which in turn has led to more inward customer and dealerships visits to the facility which has initiated the inclusion of a new 'Welcome Centre' and a new training facility within the new headquarter that will be built in the next few years.

It certainly is a bright future for EDGE Innovate as they achieve goal after goal, year on year.



Ulster Shredders - 30 years of experience

Based at Castledawson Magherafelt, Ulster Shredders has over thirty years-experience in this field currently manufacturing a range of shredding machines which can be adapted to suit a client's needs.



With waste management now an integral part of every organisation's core activities, Ulster Shredders' role is to help each customer handle their processing and shredding needs efficiently and cost effectively, whether it be plastic, electronic media, documents, wood or other on-site shredding requirements.

With over thirty years-experience, and a global customer base that ranges from SMEs and office centres to large scale industrial plants, Ulster Shredders have an unparalleled breadth of experience in the field of advanced

industrial shredders. This means that they can design, deliver and install full turnkey shredding solutions to handle practically any product, in any environment, worldwide.

Ulster
Shredders

Their success is based on their ability to evaluate specific situations and then deliver precise solutions with the aim to help customers achieve measurable bottom line improvements: savings in manpower costs through reduced material handling reduced transportation costs from moving compacted material improved corporate security and particularly with document disposal new revenue streams from sale of shredded waste.

The HUB-4 team sat down with the MD – Elliott Martin who gave us the whole story. "We moved into our current premises six years ago from our old factory in Ballyclare and have been producing an average of 50 machines per year. Moving to the new factory gave us 43,000 square feet for production including machining, turning, vertical and horizontal CNC milling and surface grinding. Two new paint spray booths completed everything we need to ensure the complete manufacture of shredders.

"Over the last six years turnover has trebled, and we have added to our machine range, offering bespoke systems and complimentary equipment including conveyors and material handling equipment. We invested £3 million when we moved, and it has successfully underpinned our desire to expand and ensure high quality products.



"Our state-of-the-art engineering facility here in Castledawson houses several complete shredding lines. These allow our engineers to perform throughput and consistency testing by conducting trials, tests and demonstrations of our customers' materials under real production conditions."



Bespoke Systems:

We went on a tour of the factory and could clearly see that the engineering capability, from concept design through to final product assembly and performance testing, offers a unique one-stop-shop solution.

It's very true that often the success of a shredder depends not only on the horsepower which drives it, but also on how the product to be shredded is fed and discharged from it. Ulster Shredders not only designs and supplies stand-alone machines including complete turnkey recycling systems, tailored to the customer's specific needs but their Design and R&D Department have repeatedly implemented cost-effective solutions to satisfy customers' unique requirements.

Employing up-to-date 2D and 3D Solidworks CAD systems to support the design and research and development of its products the company utilises Autodesk Inventor, a 3D solid modelling and 2D draughting software package. This allows virtual 3D modelling of components along with the creation of 2D manufacture drawings directly from the model thus ensuring very high design/manufacturing integrity and reduced product design lead times.



By utilising AutoCAD software, the company can readily interface with other third-party software, providing direct engineering information transfer with their customers.

Elliott, continued, "In terms of personnel we have 19 operatives with an additional design engineer

starting shortly. It's a good team with the right skill sets and we make it work very well.

Elliott then outlined the company's sales strategy, "Although our main market is the UK our overseas market is growing. We do very well in Finland selling through a Powerscreen dealer and also a dealer in South Africa; both sell around 10 machines a year currently.

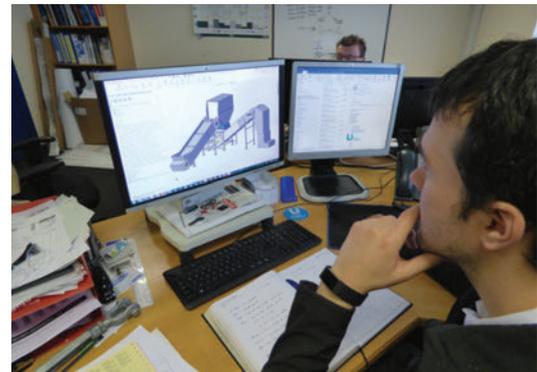
"We also have new dealers in Spain, France and Portugal and we are working on those to increase sales."

Elliott then told us about some of their UK clients, "We have had a number of customers who have come back to us which is very encouraging as they obviously love the product and our service.

"We have recently done repeat business with Evermore Energy a power station in Londonderry where they shred oversize wood, also Augean plc and two other customers in the USA all to shred IBC tanks.



"Euro Recycling in Avonmouth Bristol who process confidential material have bought a few machines over the years and Highlander in Scotland who are also in the same business have recently outgrown the system we supplied and have now ordered a bigger machine."



With a wide range of machines from the U-5 to the largest and most recent addition the U-200, Ulster Shredders can offer machines across a wide range of applications from confidential document and hard drive shredding to processing large volumes of waste prior to sorting and recovery. Even furniture, construction timber and steel drum are not beyond the capabilities of the U-200.

Whether its Confidential Destruction-Volume Reduction-Production Processing then Ulster Shredders are building their reputation day-by-day!

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L-R: Edna McCrory, Seamus McCrory and Dominic McCrory

McCrory Engineering - Concrete batching plant quality through excellence

Located in Aghnacloy, Co. Tyrone, on an 11acre site with 45,000sq ft of enclosed manufacturing facility, McCrory Engineering was started by Seamus

McCrory in 1990. With a long family history of high-quality engineering spanning several generations they now design and build an extensive range of static and fully mobile concrete batching plants. Employing 30 staff and with a reputation that is second to none in the industry they have built up a solid client portfolio including names like Breedon, Tarmac, Hanson, Jones Bros., RSD Concrete, Hillhouse Quarries, Patersons Quarries, Readymix Concrete, and R. Collard.

We spoke with Edna McCrory, Marketing Director "We pride ourselves in the quality of our work and over the 28 years have built up an excellent reputation in the industry for supplying superior static and fully mobile concrete batching plant. Our approach on the static plant is to work with our clients to produce fully bespoke turn-key plants that will suit their needs exactly, a full tailor-made solution where we offer an in-depth consultation process, then plan, design, install and commission a clients' plant. We are ISO 9001 accredited and BSI EN 1090 certified for our structural steel fabrication making sure we adhere to required standards of fabrication, as all the equipment we manufacture includes integral support legs and these must be of the highest quality for supporting the substantial structure above."

As plants are tailor made for each customer, the sales and technical team work with the customer to access their requirements and produce a site layout drawing and specification to meet the customer's requirements, working within the site or location restrictions. McCrory Engineering have manufactured bespoke batching plants for many years, ranging from 30m³ per hour to 180m³ per hour.

Mobile batching plant in production



Edna continued "We have made a lot of investment in the production facility here including 50tonne overhead lifts, dedicated silo manufacturing area with deep floor, a Kaltenbach saw-drill line, two HD plasma cutting systems, CNC press breaks and a state-of-the-art 3D design suite staffed by a highly trained and experienced design team.

"Our strongest market is the UK mainland and we have during the past 12mths installed 10 totally bespoke static plants and plan to increase this moving into next year. We're also pushing strongly into English speaking countries internationally and are attending upcoming exhibitions such as CON-EXPO / CON-AGG in Las Vegas 2020. We have also appointed a dealer in Australia called Crusher Screens who is now driving sales in that region. Our lean production process means that we can produce a plant from start to finish in around 16wks currently.



Plasma cutting system



Silo in production

"On the other side of the business, our fully mobile range of concrete batching plants are completely 'fully mobile' which is a huge plus for us over our competition, they are self-erecting and available in two concrete production capacity options, our MCM40 producing 40m³/hour and our MCM60 producing 60m³/hour.



Bespoke sub-floor for silo manufacturing



The fully mobile batching plants are completely self-erecting using an on-board hydraulic system meaning the installation time is reduced to only two hours with only two men needed to deploy it. This means you can batch your concrete where you want to use it, batch directly into concrete pumps, dumpers or ready-mix trucks and there is no planning permission needed.

Edna highlighted one very important point "With all our plants we always over-spec rather than under-spec as quality is an absolute must for us and our clients, we believe highly in quality through excellence."

To highlight this dedication to total customer satisfaction Edna picked up the phone and called a client who had recently taken delivery of a mobile plant and two mobile silos in Settle, North Yorkshire, we spoke with Edward Fairhurst of Fairhurst Concrete who commented "Everything has been great, we love the plant and its working extremely well for us since it was delivered."

For more information on McCrory Engineering and their range of static and fully mobile concrete batching plant visit www.mccroryengineering.com or call Edna McCrory on +44 (0) 28 8555 7790.

A new Drying Era - The Vulcan Dryer

Asphalt Burner Services are happy to announce that they will be launching a brand-new dryer range to the Vulcan brand. The Vulcan Dryer will be a new addition to our product portfolio alongside the very successful efficient burner range that was launched in 2011.

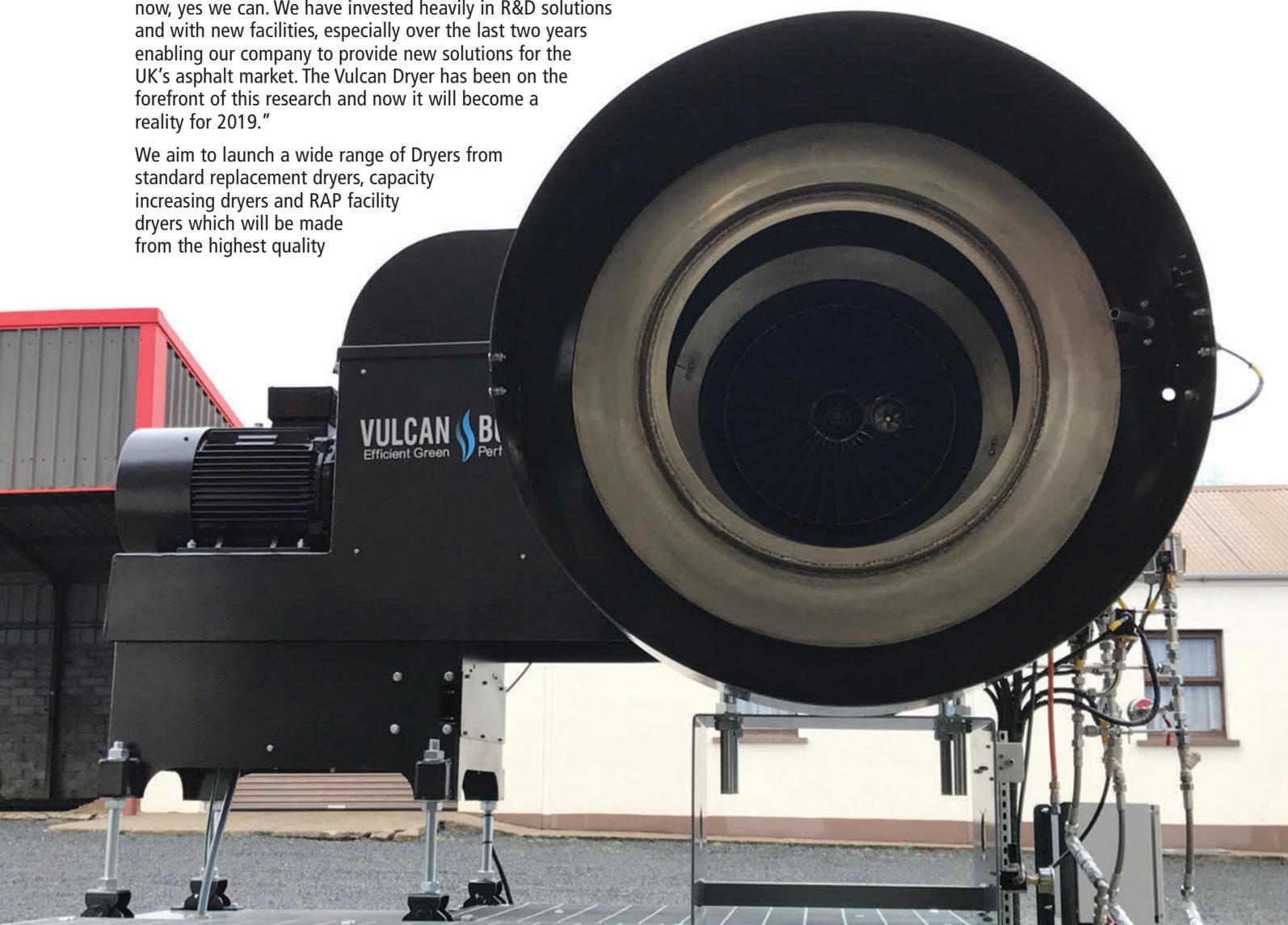
The Vulcan dryer will be an ideal replacement product for any existing drying facilities or for new dryer process systems. With Vulcans dedicated engineering team, we specialise in providing solutions for the end user, may that be to increase efficiency or to reduce fuel costs, improve production tonnage rates or to simple upgrade old worn out equipment.

For many years, dryer companies around the world have used our consultancy services for improving existing lifter configuration and design issues on current plants that make a huge effect on efficiency.

Ian Lewis, Senior Technical Engineer explains, "It is a very natural progression for the Vulcan brand to expand into this area. We have been working alongside many dryer manufacturers and customers, providing independent design & solution advice for a long time. We are constantly asked if we manufacturer dryers and now I am delighted to say that now, yes we can. We have invested heavily in R&D solutions and with new facilities, especially over the last two years enabling our company to provide new solutions for the UK's asphalt market. The Vulcan Dryer has been on the forefront of this research and now it will become a reality for 2019."

We aim to launch a wide range of Dryers from standard replacement dryers, capacity increasing dryers and RAP facility dryers which will be made from the highest quality

materials, include the latest innovative features, delivered, installed and commissioned using expert personnel and providing our excellent customer service and aftercare.



Developments such as this, shows the commitment we have invested into facilities and new technology for the industry over the last two years alongside the recently launched Surface burner and Batch series burners. Both burner models are leading in innovative technology and are ideal solutions for many out of date combustion systems that are operating in the current market.



The Batch Series burner provides the customer with a new highly efficient machine that can replace old mechanical non-automated type burners on Batch heater systems. It's an industry first to integrate the same innovative technology as the standard Vulcan range and incorporating it into the batch design burners allowing the same efficient features such as turn down ratio, minimal fuel consumption, ease of control the state-of-the-art burner control system and increased production rates. The batch burner also has a modulating flame feature which provides control of the maximum fuel output, this will provide huge fuel savings compared to the standard on/off flame cycling to current batch burners.

The Surface burner is the leading burner model of its kind, it extends the drying zone of the dryer, by up to half a meter thus enabling an increased in tonnage and higher efficiency. The system also benefits from helping with maintenance issues such as confined space working. The combustion chamber can be accessed without personnel having to enter the dryer. Entry into the dryer is also possible by simply rolling the burner away from the burner end box.

The unique patented concept of the Vulcan Surface burner enables the heat to recirculate back into the burner blower, this feature facilitates a higher efficiency level than standard burners in this area. Increased longevity is assured due to the chamber being located outside the dryer, so no expensive replacements.

A major development for Vulcan Burners that has allowed the extensive amount of R&D over the last two years has been relocating to our new premises, providing us with a new 12,000 ft² work shop plus extensive yard space that will allow for future expansion as well as recently constructing a full 1,000ft² testing facility. Within the premises we are also at the final stages of completion, of our brand-new state of the art offices and training facilities. We have spent a lot of time and effort considering our customer's needs and providing in-house training facilities for burner technicians, site fitters and operators.



The new training facilities will allow in-house training that can incorporate presentation, based training, hands on 1-2-1 breakdown basic training and general overall operator and efficiency awareness courses. We will also be able to provide bespoke packages based on our customer's needs.

Teresa Lewis, Managing Director explains, "Over the last two years, we have heavily invested in both our staff and our customer's needs, by providing new working facilities as well as introducing new exciting products to the market. The new Vulcan Dryer is of particular interest as this will be a brand-new product line, alongside our burner range it provides the perfect synergy and natural path for our company's expansion. With the two product lines combined we will be able to deliver an exceptional efficient option to our customers as well as provide the highest standard of service."

For more information on our products and services, please visit www.vulcanburners.com or contact our Sales department on 02879469501.

CK International balers partner with Blue Group in the UK

Day four in Co. Tyrone and we visited CK International in Dungannon. This successful baling machinery manufacturer began business in 1996 and over the past 10yrs has been supplying baling solutions to a huge selection of recycling companies, both big and small. With their machines evolving into industry leading designs they are now a global market leader producing fully automatic baling machines that can process up to 40 tonne per hour.



L-R: Mark Doherty, Head of Sales with Raymond O'Hagan, Sales Director

We met with Raymond O'Hagan, Product Specialist and Mark Doherty, Head of Sales. Raymond started by giving us an in-sight into the business "Our focus on product development and innovation are the two things that have made us market leaders in the industry and our commitment to our staff runs in tandem with that. We have grown with our people who are extremely

important to us and we place a lot of emphasis on training and development. We have a strong track record of developing graduates who have progressed through the organisation to take on key roles and help drive the business forward. We have increased the workforce on-site here in Dungannon by 10% in the last 12 months and continue to grow our UK base of field service engineers. These engineers are based strategically across the UK, all have mobile workshop vehicles and are fully trained across our whole range of balers to provide extremely high-quality servicing."



Mark Doherty commented "As a company we have seen significant growth over the last number of years and we have ambitious plans to continue to grow both the UK and international sides of the business. Our product range consists of vertical balers, horizontal balers, semi-automatic balers, channel press balers, twin ram fully automatic balers and compactors, and it's the twin ram fully automatic balers that are really gaining popularity in the recycling industry. Twin ram balers are typically used in waste transfer stations or as part of a larger recycling MRF system where high volumes of various waste materials including RDF, SRF, plastic, pet and cardboard are being processed and high throughputs up to 40 tonne per hour are achievable. Waste can be fed into the machines using conveyor, shovel feed or selector grab and a range of tying options is available. The fully automatic machines offer versatility, allowing an easy transfer between materials. The CK twin ram also produces a high density mill size bale, resulting in maximum payloads for our customers.

Blue Group become a CK International partner and dealer for the UK

Recently CK International have secured a long-term supply partnership with the Blue Group. This will see Blue acting as a UK dealer for CK International where they will sell the range of twin ram balers and channel press balers as part of all-encompassing turnkey recycling plants.

Raymond explained more "Blue know the waste recycling market very well indeed and with the CK portfolio supply of twin ram and channel press balers, we are able to offer the customer the best baling solution for their particular

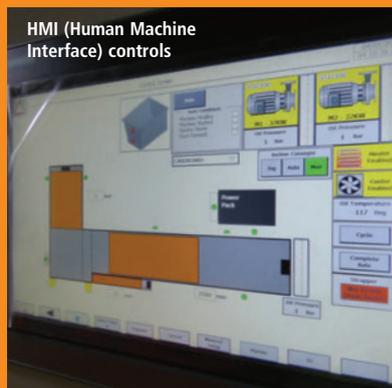
operation. We have invested time with Blue over the past few months on product training so that they are comfortable with the product and we will also be involved with our product specialists to ensure the customer's get the best machine offering. We are looking forward very much to working with them."



Blue Group Product Director Terry Hughes was keen to add "Blue Group has always taken great pride in partnering with high quality reliable brands to supply to the industries where we operate, and CK International fits seamlessly into Blue's programme. With first class design standards, extremely high build quality,



Replaceable Hardox 450 liners for extended chamber life



HMI (Human Machine Interface) controls

low operating costs and tremendous reliability, all backed up by a combination of the locally based aftercare teams from both Blue Group and CK, we are very proud to be able to represent the CK range of baling systems in the UK

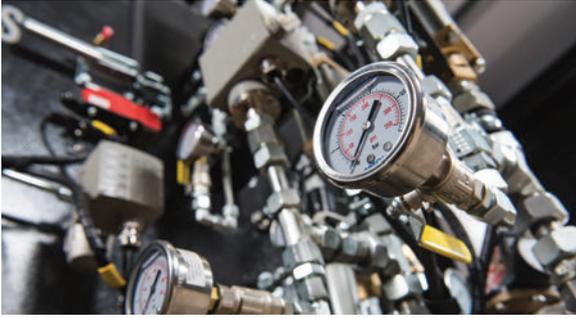
and look forward to playing a big part in expanding still further on the already successful CK story."

Telematics and HMI controls for the twin ram fully automatic balers

CK have invested heavily in applying new technologies to their range of twin ram fully automatic balers. They are all HMI (Human Machine Interface) controlled which offers huge operating benefit and they have developed a complete telematics package for the machines that will allow important data to be delivered to the client on number of bales processed, power consumption, number of straps used, and amount of downtime. They are developing a system where all this data will be automatically shared with all operational staff associated with the site. CK can also log into any twin ram fully automatic machine remotely via the internet to see what's happening at any time.

For more information on CK International and the range of twin ram fully automatic and channel press balers visit www.ckinternational.co.uk or call +44 (0) 28 8775 3966. To get in touch with Blue Group, the UK dealer please visit <https://blue-group.com/en/> or call them on +44 (0) 1606 261262.





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Dernaseer supply & install a new wash plant for Acheson + Glover at Crievehill Quarry, Co. Tyrone

Based in Dungannon, Co. Tyrone Dernaseer was established in 1988 and has grown to be a leading manufacturer of washing plant systems for the sand and aggregate and C & D recycling industries. The company has installed equipment throughout the world including Ireland, UK, Latvia, Russia, Sweden, Norway, Spain, Columbia, Chile, Belgium, Bahrain, Trinidad, Lithuania, Romania, Poland, Bulgaria, Morocco, Australia, and USA.

The company's founder and Managing Director Declan McKenna leads a team whose combined experience of both engineering and washing applications ensures a quality plant which is designed, manufactured and installed to the highest standard. All their plant is designed and constructed with the latest health and safety, maintenance and environmental issues in mind.

We met with Martin Conway, Sales & Marketing Director of Dernaseer who told us more about the company "Business is extremely buoyant for us globally and we have recently invested heavily in a brand new 38,000sq ft (3,500m²) production facility which will open in January 2019 allowing us to double our production capacity. Dernaseer can supply a single piece of equipment or a fully turnkey washing system anywhere in the world. Our services include plant design, manufacture and supply of equipment, electrical control systems, shipping and on-site installation. As well as offering new installations Dernaseer's extensive knowledge and expertise in the aggregate washing industry enables us to quickly identify and solve problem areas in existing plants, whether the customer needs increased production, improved grading, cleaner products or if they need to add a new product grade.



New wash plant at Acheson + Glover's (AG) head office at Crievehill Quarry

We then accompanied Martin to visit Declan McStravick, Works Manager at Acheson + Glover's (AG) head office at Crievehill Quarry, Fivemiletown, Co. Tyrone to look at one of their latest bespoke wash plant installations. Declan explained "We manufacture all types of concrete products across multiple sites in Northern Ireland, and this site is our head office where we have a working quarry and sand pit, and it's from here we supply all the aggregates to the rest of the AG group. We have a limestone deposit here with primary, secondary, and tertiary crushing and screening and we also have a deposit which is fairly contaminated with clay and silt.





Bespoke structure which holds the huge Matec filter press



Dernaseer's new 38,000sq ft (3,500m²) production facility



Dernaseer fabrication facility



Matec filter press

We produce a dirty crusher run daily which has also been building in large quantities since the quarry started. This is where Dernaseer got involved to come up with a wash plant solution for us to take the dirty fraction of our primary material and wash it to give us further aggregate that we can put into our concrete products. This washing plant is going to allow us to now recycle that previously waste product which is a huge opportunity for us and we are very happy with the plant, its working very well, and we have a great partnership with Dernaseer."

Martin explained a little more about the plant "With a feed material of crushed dirty limestone, this bespoke wash plant consists of a 40m³ variable speed belt feed hopper fitted with a remote-control tipping grid which is fed by a Volvo dump truck. The 0-120mm material which passes through the grid is then delivered onto the main inclined conveyor which feeds all the material into a 7m x 2.5m rubber-lined scrubber barrel. The scrubber barrel is the most effective solution for the difficult feed material in this quarry as it accepts an all-in feed removing the need to separate fines first and it can handle much larger particles than a log washer.

"The scrubbed material is discharged onto a 6m x 1.83m three deck washing screen which utilises eight individually controlled spray bars on each deck. The screen is fitted with polyurethane screen media on all decks. The top deck scalps off any material above 15mm which is fed by conveyor to a Hazemag horizontal impact crusher. The crushed material is returned to the washing screen by conveyor. A split bottom deck, 3mm and 5mm, with rubber-lined catch-box, provides the feed to the cyclone sand plants to produce the required two sands. The +5-15mm is fed by conveyor to a 5m x 1.8 screen to separate the three required aggregate sizes. All chute-work on the plant employs a dead-box system which results in a rock on rock set-up providing excellent wear properties.

"The water treatment system at Crievehill receives dirty water, from the washing plant and has two purposes. Firstly, the water is clarified and recycled the water and secondly the

sludge is concentrated in preparation for further pressing. The dirty water coming from the cyclone overflows are mixed with a polymer flocculent solution and fed into the thickener tank. The sludge settles quickly at the bottom of the thickener where it is concentrated and gathered into the pumping cone due to the slow movement of a scraper inside the tank. The concentrated sludge is then pumped into a mud buffer tank which homogenises the sludge before being pumped to a Matec 2000 x 1500 x 140 filter press where it is pressed to produce a dry cake. The water from the pressed sludge is recycled to the washing plant. The clean overflow water from the thickener tank is discharged into the clarified water storage tank, where the water pump delivers it back to the washing plant. The finished products are 3mm sand, 5mm sand, 6-9mm, 10-12mm, 13-15mm with all +15mm going back to the crusher and returned to the washing screen for re-processing."

For more information on wash plants and other products from Dernaseer please visit www.dernaseer.com or call Martin Conway on +44 (0) 28 8776 7646

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McCloskey International Picks up the Pace

On the first day of our visit to Northern Ireland the HUB-4 team visited McCloskey International at Moor Road in Coalsland. McCloskey International is the world's largest independent manufacturer of Screening, Crushing, Washing & Classifying equipment and over the last two years have been investing and developing their Northern Ireland operations.

It's a company that continues to invest and the recent acquisition of Lippmann-Milwaukee in the USA reflects that.

Demand for McCloskey products in general this year has been phenomenal, with increasing sales in many parts of the world including Australasia, Russia, China, France, Germany and of course the UK and Ireland. It has meant that around 200 additional jobs have been created at the UK locations over the last three years, doubling the company's workforce across all sites in County Tyrone.



The Granville operation:

A short trip brought us to the newest facility – the Granville factory - where we met Dominic McKenna – Operations Director who took us on a factory tour.

Dominic has been in the industry 15 years with 11 of them at McCloskey and he told us about the new operation.

Dominic, commented, “We opened the new installation last March and phased it all in over a period of six months, getting each section up and running before moving our final assemblies to Granville. We now have complete production lines, for crushers, screeners and wash plants on an increased footprint of 60%. When we had completed the installation here at Granville we turned Killyman into a fabrication and R&D centre. The whole project cost £17 million including very large 32-ton cranes.”

“The building was designed with a high roof space which enables us to assemble complete wash plants, which often require more height than crushing and screening machines. This is critical as we run and test every single piece of equipment before disassembling and packing for transport, making site assembly of the equipment a much more efficient task.”

“We can also configure the production in the sheds to suit demand, it’s a very flexible operation which has enabled us to increase our crusher production by 100% and our screen production by 30%.”

“One of the biggest advantages for us is that previously all the sub-assemblies were divided and made separately, but now all under one roof with one supervisor, it is simple to tie it all together under a single management system.”

“With 70% of our sub-assemblies done in-house, the remainder is sourced through a network of trusted local sub-

contractors which allows us to work very efficiently, while maintaining the high levels of quality we expect.”

We then sat down with Sean Loughran – Director of the Washing Systems Division - who with MWS’ expanding product lines is enjoying the company’s rapid growth as well.

“We originally started manufacturing our full range of Washing equipment here in Clonoe, Co. Tyrone. Last March, when we opened the new 120,000 sq. ft. facility at Granville, we were able to take advantage of the large assembly bays which handle the production for the S-line screens, the R-line screens, the crusher line and the washing line. Fitted with 28 overhead cranes, the Granville site is a final assembly and test facility and our fabrication is now completed between two of our other factories, all within a 10-mile radius.”

The McCloskey Washing division officially launched in 2016 and it’s been a busy few years for the team at McCloskey with incredible sales growth. The new assembly facility is at full capacity coupled with a strong order book and a host of new products in various stages of design, test and manufacture.

“North America has been a significant market for McCloskey Washing Division, with the Frac Sand market being particularly buoyant over the past 18 months. We now have 13 SandStorm™ wash plants working in this industry with many more on the books for 2019”.

Sean gave us more detail, “We also have a lot of equipment sold in the UK, in particular C&D and Waste Recovery Plants. This year we have installed three very large static & modular plants and currently installing a further four which will all be showpieces. These plants, which include full waste recovery & water treatment systems, have been demonstrated to many of our European clients, leading to successful deals across this region.”

Dealers & Market Strategy

With a global dealer network of close to 100 dealers and machines now working in all geographies, the global reach of McCloskey International is evident. Multiple recent dealer signings in Western Europe, Scandinavia, Australia and New Zealand indicate a fast-moving business.

With a large plant just installed in Germany McCloskey Washing Systems has plans to host an impressive open day in 2019. This will add to the already planned MWS open days taking place in the UK, Australia and Ireland.

In April 2019, McCloskey International will again be exhibiting at Bauma, Munich, the world's largest trade exhibition for this industry.

Product Portfolio

The primary focus in the company's products is design and build quality, ease of assembly, ease of operation and ease of maintenance and this can be seen on each and every piece of equipment made at McCloskey across the Crushing, Screening and Washing equipment lines.

On the washing side, Sean commented, "We started off with the Sandstorm™ as our flagship product, then introduced our Compact Sand Plant range with static screens, logwasher range, stackers and water treatment plants following. Today, we have a full range of equipment to cater for all material & mineral washing and classification applications".

As regards crushing and screening, the product portfolio is regularly being refined and updated to keep in line with market demand. Last year a new line of compact crushers was introduced to meet the evolving requirements of today's



projects, while maintaining the same high standard of McCloskey durability, reliability and quality. The J35 Jaw Crusher and the I34 Impact Crusher ranges are proving extremely popular, especially in the European market. Both ranges are the perfect solution for projects with small footprints but big requirements. These compact, mobile crushers are suited particularly to construction and demolition recycling, asphalt recycling and aggregates.

Future Growth

With the main focus on quality and growth, McCloskey still has 20% of the Granville site footprint to develop over the next three years and it's clear to see that the new production lines are flexible and efficient enough to expand and develop with their developing market.





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Sandvik invest in the future

Day three saw the HUB-4 team visit the large Sandvik Manufacturing facility in Ballygawley, Co. Tyrone. This impressive facility employs over 300 staff and produces a variety of mobile crushing and screening units.

Since our last visit two years ago global demand from their dealer network has increased and the production teams have made huge changes to accommodate this. Attracting new staff is a key to the future and apprenticeships are part of this with four new apprentices recently inducted.

Jesper Persson, Life Cycle Director for Sandvik Mobile Crushers and Screens comments:

"Our focus over the next few years will remain within our core businesses and investments in R&D will be the evidence of that with new products being launched in 2019.

We will be focusing our investment in the 'life cycle experience' which is about increased 'uptime' for the customer. The focus on service to build stronger customer loyalty throughout the life of the equipment will therefore be a fundamental part of our business.

We have seen an upturn in markets and our core markets are good. We are still developing our dealer network to give us greater coverage."

Sandvik have in excess of 100 dealers and have continually re-invested in them which has proved beneficial in developing the 'life cycle experience'.

Jesper said, "the sales managers sit down with our dealers and create a joint business plan; investing in training and people produces positive results which always brings increased product demand."



My Fleet:

At the recent Hillhead exhibition Sandvik launched their Telematic system called My Fleet - developed initially for the Premium (Q) range of crushers, this new digital solution is purpose designed to help operators max out on their investment. My Fleet has added a powerful monitoring, control and data collection tool, with access provided via a cloud solution, this new functionality is designed to eliminate guesswork and provide the hard data needed for informed business decisions.



Sandvik has invested in My Fleet and the development of the portal in order to enable their customers with multiple units to view all their machine's data. Jesper commented "It will be so much easier for our customers to manage their fleet more effectively with all the necessary data to hand in on location, and accessible at the touch of a button.

Hanging screens:

Introduced through the flexibility demanded by the Contractor sector hanging screens have revolutionised material processing allowing the screen to be interfaced with either an impactor or cone crusher. This has eliminated substantial additional costs when investing in two crushers and only one screen!



Working effectively into 2019:

Matching demand with the production lines. "It's a very positive outlook, forecasting into Q4 and looking at 2019 the overall economic data shows that business is going to be strong and we can take more share in the market, so it is very positive for Sandvik mobiles."

Our production schedule and capacity are driven by close cooperation with our sales channels on what is required in a given period. This all ties in with our suppliers who are fed the information, so they can supply and react accordingly if we see a change in demand."

Factory tour:

Since our last visit two years ago significant investment has been made to the production line. We met Austin Walsh – Manufacturing Engineering Manager who has been with Sandvik nine years tells us about the changes on the production floor.

"We have set up a dedicated machine test area where only authorised and trained personnel can test and run the machines to their maximum. All the Sandvik engineers were trained by Adrian Smith, Training Manager, who trains all service engineers worldwide, on electronics, electrics and hydraulics."

Here we saw a QJ341+ on test for a customer which had been set up. With an oil meter sampler continually checking the oil whilst the crusher runs under high pressure it checks the quality of the oil. The test includes warming up and cooling down, constantly checking all the hydraulics with numerous measurement checks on temperatures and pressures.

Austin, added, "We are continually improving this test protocol, with the quality team sitting in on warranty meetings and constantly providing feed-back; it has been a continuous improvement cycle."

"Demand for instance on the Hanging Screens has seen a production increase, so a massive market change that we are keeping up with. We have had to completely reorganise this manufacturing area to accommodate these demands."

Shot-blasting and paint investment:

Almost a year ago the shot blasting area for the larger components was completely rejigged. With the old system waste material had to be disposed of by a



contractor whereas now the waste from the new system drops through aperture panels within the floor and then is recycled. The investment has made a big environmental impact improving working conditions and a better-quality end product.

Recent developments in the paint shop involved investment in a powder coating plant to improve quality.

Austin, commented, "It was imperative that we increased capacity to handle the increased production. It was all about increasing quality which involved a move away from wet painting to powder coating. The plant consists of a load-area, a shot-blast, a primer-powder, a green-cure oven, a top-coat powder and a main oven and it utilises a high-tech vacuum system so that 98% of the unused powder is captured and recycled. With the powder process it comes out rock solid and all the edges are coated perfectly."

It is clear that the Sandvik team continually strive to improve on a culture that defines Sandvik in Ballygawley today. With their three priorities of Safety, Quality, and Production the company are clearly driven by customers challenges, making industrial processes more efficient, profitable and safer.

With exciting projects on the drawing board the future looks busy for the Northern Ireland team!

For more information please visit www.rocktechnology.sandvik





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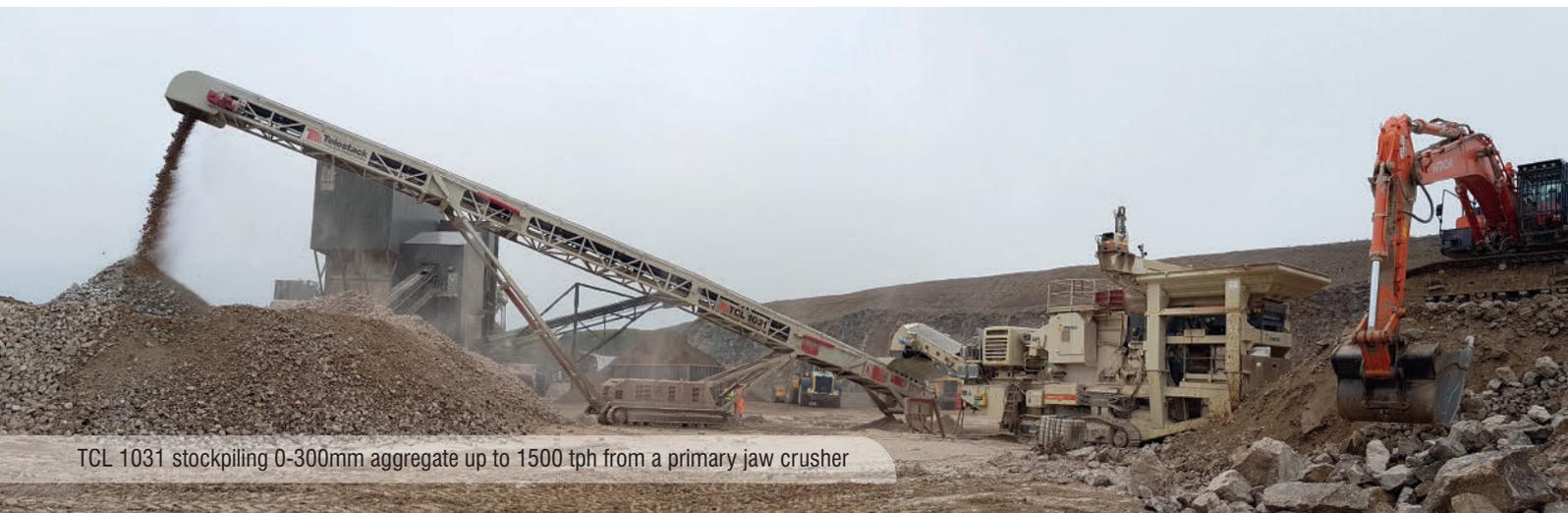


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The new £1.5m extension to the manufacturing facility where steel will be cut

Telestack Limited was established in May 1999, as the specialist materials handling division of Loughside Engineering which began business in 1985. They have grown into one of the key players in the manufacture of mobile bulk material handling systems in the coal, mining and quarry industries, stockyard management, ports & inland terminals, power stations, rail yards, steel mills, cement kilns and many other bulk material handling industries.

Now employing over 150 skilled staff members from the local area they are investing heavily in both facilities and more staff to take Telestack to the next level. We caught up with Jonathan Brown, Manufacturing Manager who gave us a production tour, starting in a brand-new extension to the factory "We are just about to commission this new high-roof 12,000 sq ft £1.5m extension to the Telestack production facility, this new area will handle the first phase of cutting the steel by means of a fully automated process increasing efficiency and speed whilst reducing costs. Our design engineers select the desired program in the system, then the steel is loaded into the building via a specially designed loading bay onto rollers and then into the new high-speed multi-spindle drilling-milling machine. We keep as much as possible in house in terms of manufacturing and design, cutting, bending and fabricating.



"We tend to over engineer our machines as we are so used to handling lots of bulk material per hour, so you will find that they are heavier and stronger than the competition. We assemble all machines on-site and they are fully tested and checked prior to dispatch. We design them so that they can be split into sections wherever possible so that they can fit in containers for cost effective transportation. We've also recently invested another £2m in a new shot-blasting and paint facility which opened in July 2017. Our high-tech shot blasting facility has 100% recycling capabilities and two new state-of-the-art paint booths which we believe are among the largest and most technologically advanced of our industry in the UK and Ireland.



Telestack ship loader with telescopic chute

"With the combined structure in excess of 10,000ft we are able to take assemblies out after shot-blasting straight into a large undercover area keeping them clean & dry before then going into one of the two paint booths. The shot-blasting process cleans the metal to a specified profile thickness allowing the paint to adhere much more effectively during the painting process, giving a higher quality finish to all our machines. We activate a paint cycle which preheats to 25 to 45°C. This is followed by a baking cycle of between 70 to 90° which will work harden the paint within 30 minutes. This allows us to increase our capacity by up to 400%. The second paint booth also has a centre splitter door that can be dropped so that we can divide it into two independent environments giving us the ability to paint 3 booths simultaneously.

After the production tour we sat down with Malachy Gribben, Commercial Director who explained more about their goals "We are in the business of moving material quickly from point A to point B and the UK market has always been very good for us and I see it becoming even bigger for us in the future. Right across the quarrying and aggregate industry we are seeing more and more of our end user customers wanting a reduction in cost per tonne processed, and traditionally they would buy another wheeled loader and/or haul truck to move the material around, however we can often propose a much more cost-effective solution for moving their material by using a mix of mobile conveyor systems whilst still using a smaller number of wheeled loaders and haulers. Typically, the cost of moving material around with just wheeled loaders and haulers would be in the range of £80ph and with combination of conveyor system and wheeled loaders it would be around the £25ph mark, so a very good saving to be made. Other benefits are that because all our equipment is mobile our clients don't have to worry about planning permission or the length of their project and our solutions can also help improve site safety.

"We're also seeing many more businesses moving bulk material by the coastal network, rivers and rail so there is huge potential there for Telestack. One of our latest projects has been to supply Bristol Port with ship loading equipment so that the local supplying Hanson quarry can load the material onto ships and it can be transported down the coast to Hinckley Point, saving on huge movements of material by road.

"Currently we are producing around 25 – 30 machines per month, with most machines being built bespoke for our clients to include customisations like dust management so these machines do have a longer lead time. We have doubled the business since 2015 and with the continued investment in the facilities and infrastructure we plan to double business again over the next three years.

Malachy explained about the education process "Education to potential clients and consultants is hugely important to us and we spend a lot of time explaining that there is always a different way to handle bulk material, allowing them to save on the cost per tonne of processing. One example was in West Africa where there was a project for loading iron-ore into ships. The company involved hired a consultant who wasn't familiar with our technology and advised the company that it wouldn't work. They did their own research eventually and ended up buying the mobile ship-loading equipment direct from us and they have since run 7m tonnes of material through it and have purchased 9 machines from us over the years. It's all about getting people to look beyond how they normally think about bulk material handling. By using our equipment, it also means that there is much less vehicle movement on site, so it makes it a lot safer for employees and eliminates any operator error."

Telestack mobile bulk material handling systems are available direct from Telestack or from their network of global dealers and agents. They also collaborate with many OEMs to offer complete solutions for the end-user clients. Telestack can offer resale support after a client has finished their project if they wish to sell the equipment on, as the global resale market for mobile bulk material handling systems is very strong and Telestack have the worldwide contacts to enable this. For more information please visit www.telestack.com or call +44 (0) 28 8225 1100



One of two new paint booths



Shot-blasting





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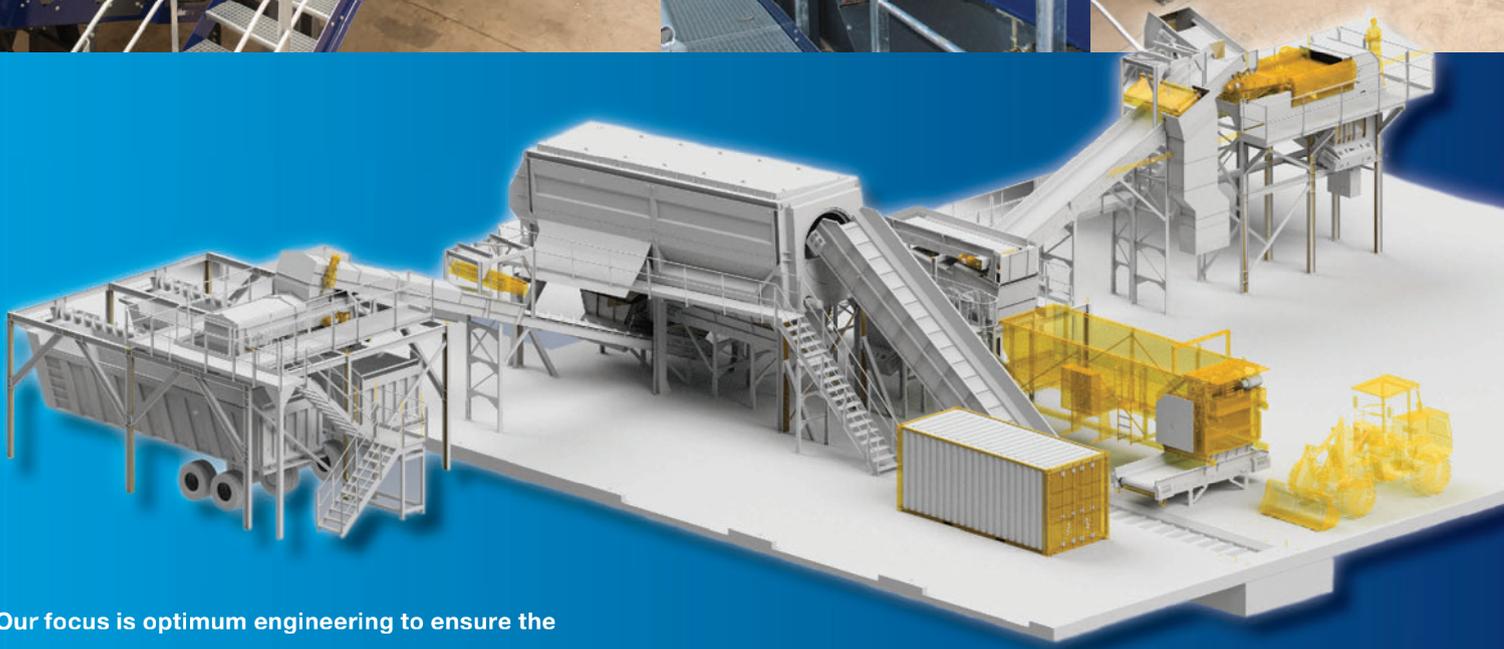


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Portafill shows its global strength in compact crushing & screening equipment

HUB-4 visited Portafill's 100,000sq ft manufacturing facility at Dungannon Business Park in Co. Tyrone. This state-of-the-art headquarters has been custom designed for Portafill to grow its business worldwide with its expanding network of dealers and took two years to design and build in this newly developed Invest NI business park.

Founded by Desmond Rafferty in 1993 and celebrating 25yrs in business, Portafill is still a family run and managed business now employing over 70 employees from the area, which is full of rich local expertise. Malachy Rafferty has been involved in the business for the last 16 years and now heads up the organisation.

Focussing primarily on compact crushers and screeners Portafill have developed a versatile range that has a superb reputation worldwide. We talked with Colin Rafferty, Director of Portafill, who gave us more insight into the business "We have over the last two to three years put a lot of hard work



New facility

into developing our global dealer network and recognising the potential in the Portafill brand. We now have an extremely strong network of dealers in the UK, Europe, Australia, New Zealand, Japan, China and more recently the USA. We especially look forward to developing the USA as there is huge potential for us there and we will of course be attending the next CON-EXPO / CON-AGG exhibition in Las Vegas in 2020.



SCG Supplies on location

"Our compact range of machines can easily be fitted into a 40ft container meaning that we keep shipping and movement costs to a minimum for our clients. As we've developed larger machines we have put a lot of resource into making sure that we design them so that they too can be folded down easily and quickly, meaning they too can also put inside a 40ft container, Portafill have many patents registered around this technology. This means that we can keep shipping costs to a minimum for our global client base and they in turn can easily transport them onto other projects if required. With the current global market now educated and much more accepting of compact machines we are very well positioned to maximise on this".

"Our current production capacity will be increased with the addition of a phase two extension to this current facility in 2019. This will enable us to ramp up production capacity as demand increases and we will eventually take our team to around 110 people over the next two years. We've also recently introduced some new machines into the range, at Hillhead this year we launched a new cone crusher and a new MR-6 scalper which were both really well received at the show."

Colin then took us on a production tour around the site "We've invested heavily in this new facility, including new jigs which can rotate the assemblies 360 degrees during the welding process making it much quicker and safer, along with a complete system of extraction torches for welding meaning that all fumes and smoke are extracted out through a series of extraction pipes making the environment much cleaner. We have also made sure that all welders have air-fed masks. Once welded the assemblies are placed outside to oxidise slightly, as this makes it easier for them to be shot-blasted. The shot-blast facility here has a mesh floor so that all the shot is captured and recycled after blasting making it much more environmentally friendly. Our paint booth can be divided into two with a middle roller door allowing us to paint in the first half and then bake, whilst they move to the second half to continue painting other items and then bake them. We can also accommodate larger assemblies by opening the middle door, which is ideal for items such as conveyors. We also galvanise our machines as much as possible giving them a much longer working life.

"Our final assembly area features our main line where all machines are assembled and quality checked before moving through to our dedicated testing and dispatch building. We thoroughly test every single machine here for an 8hr period making sure that it is tested against a 150point check-list to see how it performs. Only after passing this does it get prepared for dispatch. We can accommodate around 3-4 machines here at any one time and have purpose-built inspection pits to check all around each machine. Currently we have three machines being tested, one going to Japan, one to Norway and one bound for South Africa. As part of this facility we have a custom-built loading bay and ramp where we can accommodate both curtain side trailers and containers allowing for quick and easy loading of machines for dispatch as we have incorporated bays at 1.5m and 1.2m high."

UK Dealer

SCG Supplies Ltd are the dealer for Portafill Screens and Crushers in Great Britain. Director of the company, Paul Thorne is very pleased with both the Portafill team and their products "We were approached by Portafill just over two years ago and we have been amazed how well the product has been received by our customers. We put this down to three, obvious things; innovative design, the best build quality and an unrivalled level of customer backup from the manufacturer. This equipment will, inevitably take significant market share once full awareness of the brand and what it stands for is demonstrated through the growing number of machines around the country."

For more information on Portafill please visit www.portafill.com or call Colin Rafferty on +44 (0)28 8772 3505.



Fabrication area with rotating jigs for welding



Shot-blasting area



Custom built research and development area



Final assembly



Fabrication

Rapid International Discuss Their “Best Year Ever” on the Lead up to Their 50th Anniversary

We recently caught up with Rapid International at their County Armagh, Northern Ireland headquarters, where they discussed everything from upcoming new product launches to renovations and their approaching 50th anniversary.



L-R: Ashley Forbes, CNC Machine Operative celebrating 40 years with Rapid in January & Mark Lappin, Managing Director



In the lead up to their 50th anniversary, the company has recently invested half a million pounds into the renovation of their facility in Northern Ireland, to include modernised office interiors, additional office space and a brand-new façade. This modern and refined new look fits perfectly with the earlier company rebrand undertaken back in 2013.

Rapid is a trusted supplier of innovative mixing technology solutions to some of the world's leading concrete, construction and environmental companies, including CEMEX, Lafarge Holcim, Tarmac and many more. Rapid's innovative and ever-evolving product range includes super and compact sized mobile concrete batching plant, static concrete batching

Rapid International has witnessed huge growth in both mobile and static concrete batching and continuous mixing plants, declaring 2017/18 their best year ever. With a number of high value bespoke static concrete batching plants and several mobile mixing plants installed in the UK alone by Rapid this year, it's clear to see they're enjoying the benefits of a recovering UK construction industry.





We talked with Jarlath Gilmore, Sales and Marketing Director, "We've just had our best year ever in terms of sales, with a 25% growth year on year. A very buoyant UK market over the past 12mths has accounted for a large part of this growth. We've also seen growth for us in the Australian and US markets and as a company we have also diversified into other specialised mixing applications such as tunnel finings, mine back-fill, and port dredging. We tend to handle higher value



plant, mobile continuous mixing plant (both track and wheel-mounted options), pan, planetary and twin-shaft concrete mixers, high-pressure mixer washout systems and spare parts.

Rapid boasts an in-house team of highly qualified and experienced design engineers, using the latest 3D design software. Absolutely everything is produced in the company's recently extended 50,000 sq. ft. manufacturing facility, to ensure the highest quality standards. All machinery is manufactured using high quality components sourced from internationally recognised brands. Lean manufacturing is incorporated at every stage of design and manufacturing to reduce waste. Rapid manufactures a wide range of spare parts in-house and holds a large inventory with same day dispatch available on many items.

Originally known as Craigavon Engineering, Rapid was established in 1969 by the late Robert (Bertie) Pickering and Jim Lappin. The company originally manufactured agricultural equipment out of a humble domestic garage, not more than 7m x 4m. Later in the early 1970's, Craigavon Engineering moved into larger premises and diversified into the manufacturing of plant and equipment for the ready mixed and precast concrete industries. On commencement of exporting in 1984, Craigavon Engineering changed its name to 'Rapid'. Today, with a presence in more than twenty countries worldwide and a wide-reaching international dealer network, Rapid is a trusted partner to a variety of customers ranging from multinational construction groups to small concrete producers.

projects and have installed a number of major fixed plants in the UK and mobile mixing plants worldwide including our Rapidmix and Trakmix range."

"An exciting product moving forward for us is our re-designed Concrete Reclaimer. Back in the 1980's this product sold around 100 units worldwide and was featured on the BBC programme Tomorrow's World. This very innovative machine allows for any surplus concrete to be split back into sand, stone and grey water. They grey water can be treated further to allow any concrete sediment to be separated out to the bottom of the tank to create a cake, and further equipment such as a filter press can aid this process further. Alternatively the grey water can be agitated and put back into pumps which can handle a percentage of sediment in the water, allowing this grey water to be recycled for further concrete production. The first of this new product line has been sold into New Zealand and we are extremely excited about the potential of this machine. It will be officially launched a little later in the year."

"We pride ourselves on our staff loyalty, and now with 56 employees we see one team member celebrate 40 years with Rapid this year, a huge testament to the company and its ethos. Next year will see Rapid International turn 50 years old and we intend to celebrate that massive success with all our employees and clients."

For more information on Rapid International and their range of equipment please visit www.rapidinternational.com or call +44 (0) 28 3884 0671

Maximus Crushing & Screening give us a sneak preview of their innovative new 514T aggregate sizing screen



Neil Collins, Maximus Managing Director with the prototype 514T

It was two years since HUB-4 visited Maximus crushing and screening in Dungannon at their Coalisland Road 100,000sq ft production facility. Since then the business has seen many changes and continued growth, including a multi-million pound injection of funding from the Austrian based Rubble Master who became the majority owner of Maximus back in March this year. Already 2018 has seen a 30% increase in business and 2019 is set for another 50% increase, making this company one of the most dynamic in the Co. Tyrone crushing & screening manufacturing zone.

We met Neil Collins, Maximus's new Managing Director to get an insight into their success "With Rubble Master now involved their aim is to grow the business here in Dungannon by bringing the two companies together, leveraging best practice from both to give our customer base a more innovative offering whilst allowing them to engage even more with the Maximus brand. As we increase production we will eventually also need to add to the manufacturing space that we currently have and that was all part of the plan when we moved to this large 18acre facility two years ago, as the land gives us massive expansion potential.

"With manufacturing we are very well integrated into the local supply chain and we cut, fold and fabricate all our own



Ronan & Iain Herity of Maximus Crushing & Screening Ltd
- dealer for South West & South East England

steel on-site, giving us much more control over the production process. My background is working extensively in the manufacturing sector with a major global market leader all be it in a different sector. A fresh pair of eyes can always bring new ideas and work-flow to help with the transition to the next phase of Maximus. We have a talented team of 125 people already here, who we are looking to grow to around 160 over the next couple of years."



Taylor & Braithwaite, Maximus dealer for Midlands & Northern England



Maximus production facility

Hubert Watson, Sales & Marketing Director for Maximus was on hand to walk us through a new prototype "Today we are delighted to have our new prototype 514T aggregate sizing screen set up and working to show to our UK dealers. This machine comes with some excellent on-board innovation which includes an optional centralised greasing hub which is accessed from ground level and provides greasing to all major parts including conveyors, screen box, tail drums, head drums and all bearings. Also, on the power pack and other key parts of the 514T we have used steel pipework for the hydraulics rather than hoses, making it neater, tidier and much more efficient. Another first for us with this machine is that the bottom deck of the screen box has an additional 5° angle built into the screen box, giving a banana effect allowing it to screen right from the beginning of the deck, which means this machine will process around 10% extra through put.



Steel pipework for hydraulics and greasing

"We have developed this triple deck screen box machine to be much more user-friendly and to fill a gap in our range that we didn't have before. It's now our smallest triple-deck screen-box and will produce 4 types of final material or the 4th over-sized conveyor can be used to return the material to another crusher for further processing as it features an independent turntable. We've also integrated our traditional Maximus transfer conveyor rather than a chute meaning that we keep the material moving and it doesn't get stuck when it comes off the top deck of the screen-box, simple yet highly effective features are built into this latest screen from Maximus."



Maximus Crushing & Screening Ltd is a leading manufacturer of high performance, high quality Crushing Equipment & Screening Equipment for a wide range of applications.

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Maximus machines are available globally through their dealer network and more information on the product line-up can be found at www.maximusscreening.com, by calling + 44 (0) 28 8774 8873 or by email at sales@maximusscreening.com

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DERNASEER

Terex Materials Processing stands out in a competitive market by investing in R&D, Parts Facility and Telematics



Terex Materials Processing (MP) is part of Terex Corporation, a global manufacturer of lifting and material processing products and services that serve a broad range of industries, including construction, infrastructure, manufacturing, shipping, transportation, refining, energy, utilities, quarrying and mining.

The MP segment contains a portfolio of 10 different application-specific business lines and has a huge global footprint to include a significant presence in Northern Ireland (with locations in Dungannon, Omagh and Ballymoney, and a new location soon to be announced), so it is an obvious business to showcase in our 'Made in Northern Ireland' feature.

Terex MP has experienced growth in recent years. This growth, along with Terex implementing a tighter portfolio of businesses, has seen the segment play a much larger role in shaping the future of Terex.

A clear theme across the Terex MP business lines is that they invest heavily in product research and development to bring innovations to market that address their customer needs. We got to see and learn about the results of this during our factory visits, with all the new product introductions and improvements introduced this year.

Recognising that the sale doesn't end with the machine being delivered, Terex MP also places a huge emphasis on efficient and effective supply of spare parts, which we saw at the parts warehouse in Ireland, when we also heard about a large distribution hub in Hosur, just south of Bangalore in southern India.

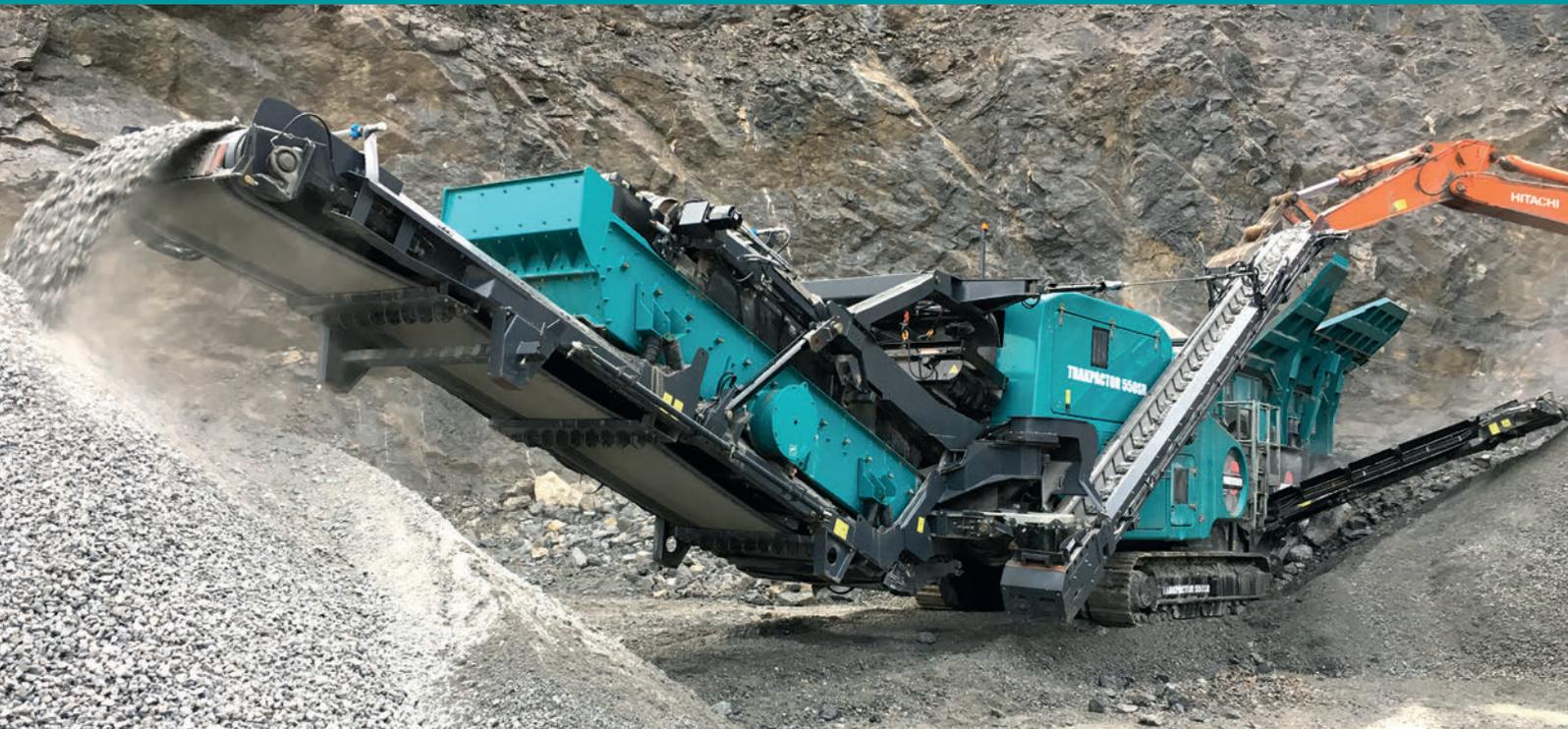
We also heard a lot about investment and developments in telematics—technology that goes beyond simply a list of statistics and numbers. In addition to regular reports on machine usage and fuel consumption to help customers manage their fleet, telematics is tied into predictive maintenance, where customers can know when their machine is due a service or when parts may need replaced.

The end result? Terex MP business lines are evolving their product lines and aftermarket service to best meet its materials processing customers' present and future needs.

As we delve into the success of Terex MP, we visit Powerscreen, EvoQuip, Terex Finlay and Terex Ecotec to hear about their growth, new innovations and core customer offering, as well as the all-important Parts Facility that plays a key role in driving the reliable, efficient supply of parts to customers, maximising their machine uptimes and return on investment.

POWERSCREEN® TRAKPACTOR 550SR

The Powerscreen® Trakpactor 550SR is a horizontal shaft impactor which is versatile, efficient and highly productive. It offers both excellent reduction and a high consistency of product yield in quarrying, recycling and demolition applications.



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Powerscreen—the complete crushing and screening package



Powerscreen Premiertrak 600 – XL Feeder

With a rich heritage of design and manufacturing excellence, Powerscreen is a leading force in the crushing and screening sector, so much so that Terex retained the formidable Powerscreen name when they acquired the brand in 2009.

Powerscreen—with a long history dating back to 1966—unites robust and reliable crushing and screening equipment, built and supported by passionate experts, with a vast legacy of experience and knowledge used to develop a safer, more efficient

working environment. This, married to the driving force that is Terex and its value-added customer offerings including telematics, a bespoke parts facility and complete aftermarket support, is a rare combination and is something that contributes to the global success of the brand.

We sat down with Neil Robinson, Product Manager, Joe Cassidy, Sales and Application Support Manager, and Michael O'Neill, Engineering Director, to learn more about Powerscreen's world-class customer offering.

Strategic Focus on Product Improvement

Historically, Powerscreen has gone above and beyond in its product development efforts, focusing on what customers need to be successful in their industries and applications across quarrying, mining, C&D and recycling industries globally.

Now offering a comprehensive range of machines to serve these markets, the team behind the all-encompassing product range are focused on improvements to offer even more customer value, namely, improving the efficiency of the product and making them easier to operate and maintain.

Neil Robinson, Product Manager, explains, "Since we have the most comprehensive range of machines in the market our focus is on improvements because we know what is most valued for our customers—making our machines easier to use and to be more effective."

An example of such improvements is Powerscreen's Premiertrak 600 which now has an extra-long feeder option, enabling the operator to implement loading with a 50-tonne excavator. This option—which will become available early 2019—matches the machinery with the loader.

The Premiertrak 400, that has become the Premiertrak 400X, is another example. Neil explains, "In addition to machine modifications, the 400X was refined to make it easier to operate, easier to adjust, and features automatic settings—again a big focus on easier operation and consequently more uptime."

"Our customers have trusted us and helped us to build and define the industry, as well as creating ways for people to work safely. It is through constructively working with our customers that we will continue to find new solutions and opportunities to better serve their needs."

Conveyor Range

Another sign of working with customers is the development of its conveying range, to help quarry owners better cope with bigger production levels.

Neil explains, "We have developed our conveyor range as the cost of using wheel loaders—such as the cost of diesel and operators to control them—has become extortionate. Our new tracked conveyor facilitates a higher stockpile, reducing the use of a loader so it is more cost effective for our customers. It equates to less downtime and more efficiency throughout the processing operation, as the loader can be employed elsewhere. It also improves site safety, through the reduction of loader and haul truck movements."

Global Brand—Local Service

One of Powerscreen's most important strengths is their Global Dealer Network of 120 companies who work tirelessly across the world to serve their customers. It makes sense, therefore, that Powerscreen invests heavily in supporting their dealers to both grow their businesses and provide aftermarket support—from machine purchase through to technical support, service and spare parts.

Powerscreen provides comprehensive training for all dealers' service staff, equipping them with the correct skills, knowledge, methods and practices to serve their customers in the field.

Joe Cassidy, Sales and Application Support Manager, commented, "The success of our dealerships is important to us. The combination of our global dealer network and factory service personnel gives us the ability to provide an extensive range of services—when our customers require them. Our highly skilled engineers are involved from commissioning a plant, inspections, through to regular maintenance to keep our Powerscreen products operational and performing to their best."

Powerscreen Premiertrak 400X



High Efficiency through Parts Backup and Precise Information

Machine uptime is critical to customer return on investment and Powerscreen knows it. As well as local service support through their huge dealer network, recent Terex investment is making sure their customers have the right parts available at the right time—through its bespoke parts facility that serves Powerscreen customers globally, and Powerscreen Pulse—technology to help monitor the machine's usage so that customers know in advance when they might need a spare part or plan for a service.



Powerscreen's range of genuine crushing and screening spare parts are designed specifically for use in Powerscreen equipment—parts that have proven to enhance performance and reliability, helping maximise machine uptime. Access to these parts is seamless thanks to the slick operation of the Terex Materials Processing Parts Facility, providing a reliable, efficient supply of parts to Powerscreen customers.

Michael O'Neill, Engineering Director, explains, "We use Powerscreen Pulse technology to make real-world benefits for our customers. We can also use the data to plan for when parts might need replacing, or when a machine might need to be serviced, which in turn maximises machine uptime and return on investment. When a report indicates that a part will be needed, customers can easily order it online, which is then processed efficiently through our parts facility."

As well as supporting predictive maintenance, Powerscreen Pulse generates frequent data on fuel consumption, output production tonnages, GPS machine tracking, operating hours—all to help Powerscreen customers manage their fleet, which is particularly useful for contractors and plant rental companies.



Facilitating Increase of Output

The improved products and aftermarket support along with the general global boom has contributed to an all-time demand for Powerscreen machines. Naturally, the discussion went on to delivery times which, due to this increased demand, have obviously extended. As well as two new assembly halls in the Dungannon factory to facilitate an increase in output, Joe explained how they handle increased demand as efficiently as they can.

"We do a lot of forecasting so that our dealers can get the machines they want when they want them. As well as that, since we have a large dealer network, we can also move machines around when required."

"Our production facility in India also helps, as it mainly fulfils local demand that side of the world, as well as producing two of our containerised tracked mobile screens, due to the ease of shipping from the Indian factory in a standard container."

Proud of its Past - Excited for its Future

With a rich heritage of design and manufacturing excellence, it is without doubt that Powerscreen offers the complete package and is a force to be reckoned with in the crushing and screening heavy plant sector.

Powerscreen operations worldwide are part of the Terex Corporation who are driven by their mission to delight their customers with value-added offerings that exceed their current and future needs. The commitment to this mission can be seen in everything they do, from their wide range of quality products, constantly evolving to add value, to a genuine focus on customer satisfaction.

Striving to deliver products that are safe, reliable, cost-effective, and improve the return on invested capital is clear to see here in Powerscreen, and the future looks bright for this ever-growing brand.



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36 Swinging Hammers
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Extra-large screening
area with kickback for
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Over 5m discharge
height at 35°



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Out of all the Terex operations in Northern Ireland, Terex Ecotec (an industry leader in the design and manufacture of wood processing, biomass and recycling equipment) would be considered one of the newer and fastest-growing brands, so for the HUB team it was a very interesting visit.

As we met with Conor Hegarty, International Sales Director, and Steven Aiken, Engineering Manager, it was clear that the growth of the recycling market is a trend not gone unnoticed by Terex, illustrated by its heavy investment in Terex Ecotec—into R&D to bring new products to serve the needs of these markets, as well as additional manufacturing space for the growing brand.

Recent growth and expanding dealerships:

Terex Ecotec has achieved significant growth and development in recent years and today offers a comprehensive product portfolio of mobile shredding, screening, handling, compositing and conveying equipment.

Conor talked to us about this accelerated growth and expanding list of dealerships around the world.

"Having originally started off with just two dealers in the UK, one in Ireland and one in France, we have rapidly grown our dealer network in a relatively short space of time. Today we have numerous dealers in Europe with representation in Southern Germany, Italy, Northern and Southern France, Spain, Portugal, Denmark, Poland, Norway, Finland, Belgium, and the Netherlands, not to mention dealers as far away as Australia, New Zealand, Singapore and Japan. Russia and China are now looming in our sights and we hope to have these two countries on-board shortly.

"With 100+ machines sold in the UK to date, sales have been buoyant with the key machines being the TDS 820 Slow Speed Shredder, TDS V20 Medium Speed Shredder and the TTS 620 Trommel. We expect these levels to continue as the machines have been a great success; in particular the TDS 820 has opened a lot of doors for us. We also have several machines that are new to the market so it's a very exciting time ahead for Terex Ecotec."



TBG 630 High Speed Shredder

New developments:

Steven Aiken, Engineering Manager, gave us the lowdown on recently introduced machines to the range.



TSS 390 Single Shaft Shredder

"We are continually striving to introduce new technology to the market and, as part of our new product development strategy, 2018 saw Terex Ecotec launch the TBG 630 High Speed Shredder as well as the Phoenix 1600 Trommel. We also have a number of exciting new projects in the pipeline - as we are growing rapidly in terms of dealerships, our machine range is following suit. While we are currently heavily focussed on the UK and mainland Europe, we are increasingly turning our attention to the USA, where although we are doing very well with trommels, we need to market the whole Ecotec range effectively. We see it as a massive growth area as they are turning their backs on landfill and becoming more recycling focused."

TBG 630 High Speed Shredder:

The ultimate processing machine for medium to large-scale biomass and green waste processors, the TBG 630 is powered by a 661HP V8 Scania engine and has been designed to give operators unrivalled production rates and ease of maintenance.

The open fronted feeder uses heavy duty drag chains, a powerful feed wheel and an unrestricted feeder design to effectively utilise the 1,100mm diameter x 1,750mm wide swinging hammer rotor. This robust rotor comes with a wide selection of hammer designs and customisable screens which ensures the required end-product material specification.

As metal contaminants are always a concern when using a high-speed machine, the TBG 630 has an intelligent screen opening system to quickly discharge such contaminants - reducing the risk of accidental damage.

The unique machine layout and maintenance catwalks offer unrestricted access to both sides of the engine, making servicing a simple task.

With an industry-leading conveyor discharge height of 5.1m, the machine maximises stockpile capacity and allows loader operators to easily remove processed material.

The TBG 630 can be offered with the options of an over-band magnet and various screen apertures.

Phoenix 1600 Trommel:

The Phoenix 1600 has been innovatively designed to provide excellent fuel efficiency and low operating costs, whilst also reducing emissions and noise levels due to the machine running at a low engine speed. With a 4.9m x 1.54m drum, unrivalled production throughput is guaranteed due to the screening area, the largest in its class.

Highly versatile, the Phoenix 1600 can easily screen a variety of material including topsoil, compost, sand and gravel, wood chip and C&D waste. Woven mesh or heavy duty punch plate panels can be fitted to the drum ensuring all application requirements are met.



Phoenix 1600 Trommel

Upcoming innovations and a new factory:

As the brand continues to evolve its range, Steven told us about a new machine planned to go into production in the foreseeable future, "We currently have a prototype TSS 390 Single-Shaft Shredder undergoing rigorous testing on-site in Ireland. This is a very versatile machine that can work on wood-waste, general waste, green waste and almost anything that requires reduction. We envisage that this product will do well when we start production in the coming months."

And looking forward, Steven continues, "It's definitely a very busy period; we have a good forward order book and are currently building an average of 15 machines a month. We've actually reached capacity in this factory, which we share with Terex Washing Systems. This led us to search for and acquire a new production facility, which will be able to cope with the increasing demand for our machines."

With a rapidly expanding dealer network, brand new facility in the works and on-going R&D projects to fill in the missing gaps in their growing product range, it's certainly 'all systems go' for this thriving business.





883+
TRIPLE SHAFT



The NEW 883+ (TRIPLE SHAFT) HD Screener

- Higher G-force and larger stroke of the triple shaft screenbox provides the optimal solution for high productivity in dry and sticky applications.
- Multiple media configurations including bofor bars, finger screens, woven mesh and punch plates are available for a wide range of applications, from fine screening to heavy scalping.
- All media configurations are compatible with both the standard and triple shaft screenboxes.
- The banana profile of the bottom deck maximizes the screening of fine materials.

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Terex Finlay-60 years of Passion and Innovation

Our visit to Terex Finlay was something of a milestone as the company is celebrating '60 years of passion and innovation'.

Originally started in 1958 when its founder, John Finlay, created a successful patent for the centre single-shaft screen box technology that today is widely used across the industry, such was the reputation of the Finlay brand that Terex retained the Finlay name when they acquired the business in 1999, to become known as Terex Finlay.



Terex Finlay 883+ Triple shaft

Today the range of innovative machines are an integral part of Terex's crushing and screening range, manufactured to provide efficient production, low operational costs and ease of maintenance, while the values of integrity, customer satisfaction and innovation that John Finlay instilled in the company remain key pillars of the business.

Our host, Nigel Irvine, Regional Sales Director for Terex Finlay commented, '2018 is an incredible milestone for us. Our business has grown on the core values and beliefs of delivering world class-leading products that our customers can depend upon. We are not only celebrating 60 years in business, but 60 years of building and supplying innovative products that serve a range of applications across the world.'



Terex Finlay I-120 Impact crusher

Power, Reliability, and Proven Performance

The Terex Finlay range of crushers and screeners are designed to meet the toughest demands of primary crushing applications with their impressive power, reliability and proven performance.

Today the diverse Terex Finlay range contains an array of jaw/impact/cone crushers, heavy-duty screeners and a grid, inclined and horizontal screens, conveyors and dual-power crushers and screeners, all of which are renowned for their capabilities in the reduction, sizing and conveying of aggregates for construction materials and recycling construction waste.

New Product Launches

I-120 Impact Crusher

A testament to their commitment to bringing new innovations to the market, Terex Finlay launched a collection of six new products at the Hillhead exhibition earlier this year.

One of the products is the new I-120 direct drive horizontal shaft Impact crusher. This second generation impact crusher incorporates the new Terex CR038 impact chamber that has features to help pass uncrushable material that enters the chamber. The machine - rigorously tested in quarrying, demolition and recycling applications - has lived up to the efficient material flow that is at the heart of the design ethos across the Terex Finlay range of crushers.

Nigel told us about its other features, "On this particular model we have incorporated curved corners on the feeder wear plate to minimise material build-up in the corners when running in sticky material, something that we have received a lot of positive feedback on. The machine is direct driven, and



Terex Finlay I-120 Impact crusher

has an advanced electronic control system that gives the driver optimal efficiency while at the same time, giving high material reduction ratios and a consistent product shape. For efficient and safer onsite set up and tear down processes, the hopper is hydraulically folded and locked from ground level."

For recycling and demolition applications, the options of an underpan feeder and autoadjust on the chamber secondary apron are also available for the I-120 impact crusher.

883+ Triple Shaft Screener

Another new product launched as part of the anniversary celebrations is the 883+ Triple Shaft Screener, an addition to the Terex Finlay 8-Series line up of heavy duty screeners. This machine was developed to operate in a variety of dry and difficult sticky applications including quarrying, mining, sand and gravel, construction and demolition debris and recycling applications.

The heart of this new model is the new triple shaft screenbox, featuring two “true” full size 16’ x 5’ screening decks, that generates an aggressive screening action—reducing plugging and blinding over the screen decks to provide a quality product with high tonnage output.

Nigel explains, “The aggressive screening action makes it ideal for fine screening a diverse range of materials. Even when we tested it under a heavy load, the screenbox consistently produced high tonnages across a range of difficult and challenging applications.”

New design features incorporated to maximise overall operational efficiency include an increased width of the fines conveyor to 900mm wide, an increased hydraulic power to the fines conveyor and an engine setting to run at a lower speed. These updates will be carried across the standard 883+ platform and will be a feature on plants configured with either the standard screenbox or Spaleck screenbox option.

The new 883+ Triple Shaft Screener retains key features of the current 883+ screener, including the ability to hydraulically raise the discharge end 500mm that facilitates easy and efficient media changing.

The Revolutionary Telematics—More than just Numbers

On top of new product innovations, T-Link—a remote monitoring and management system that is now across the full range of crushers—is also a huge innovation for the Terex Finlay crusher portfolio.

Nigel commented, “Saying a machine has telematics is one thing, but it’s how we help grow our customer’s businesses through the information pulled from T-Link that sets us apart.”



Terex Finlay 883+ Triple shaft



Terex Finlay I-120 Impact crusher

T-Link enables the owner to stay connected and keep track of their equipment, monitor work progress, manage logistics, access critical machine information, analyse and optimise machine performance and perform remote operator support.

Nigel further explains, “The benefits of T-Link are endless. Owners enhance their machine uptime through knowing their machine hours and planning predictive maintenance and servicing, have better security and visibility knowing the real-time location of their machines, and improve their fleet management and performance, through data including fuel economy reporting, idle/working time monitoring and engine load recording. Our team helps our customers interpret their data and make whatever changes or predictive maintenance necessary to maximise machine uptime and utmost efficiency, leading to what they want—highest return on investment.”

Looking Ahead

60 years on from when it started, Terex Finlay continues to thrive across the world. According to Nigel, “Global demand being what it is today, we are looking at every opportunity to try and increase our capacity to meet demand for our products. As recycling operations in Europe increase, for example, we are seeing demand for our machines that cater for those applications increase. Having said that, we are constantly expanding our distribution network and streamlining our services to our customers, resulting in all of our markets increasing worldwide.”

After learning all about this significant anniversary milestone and latest innovations to mark the occasion, the HUB-4 team were treated to a tour of the factory, where we saw the various departments in full production leading to the final assembly shop before dispatch. It’s a fitting tribute to John Finlay as today Terex Finlay reach forever skyward to their next goals.

COLT 1000

SCALPING SCREEN

The highly adaptable Colt 1000 Scalping screen is able to operate in both heavy duty scalping and precision screening applications and will manage the most difficult of materials.

Featuring an aggressive double deck screen, variable screening angle with numerous screen media options, broad fines conveyor, quick set up time and tall discharge heights ensures the Colt 1000 distinguishes itself amongst its competition.



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SPLIT**



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SCREEN THROW**



**VARIABLE
SCREEN ANGLE**

For more information please visit terex.com/evoquip/colt1000

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terex.com/EvoQuip

EvoQuip - A Versatile, Compact Machine Range

Our next step in Dungannon was to visit EvoQuip, a relatively new Terex brand that offers a simplified range of products to address the needs of the compact crushing and screening markets.

Establishing the EvoQuip range took several years of research and development. Since its inception, user friendliness has been at the heart of the brand, and as new products have been developed, the ethos has always been on simplicity, ease of maintenance, fuel efficiency and ease of transport.

Jamie Mairs - Territory Sales Manager gave us the whole story, "Terex identified a gap in the market for more compact machines that are simple to operate and maintain, and easy to transport. After much research and development, EvoQuip was launched, and we now offer a range of 3-30 tonne machines. The smaller machines give us the opportunity to meet end users who are working on smaller residential construction projects as well as plant and tool hire. Introducing them to our range and how our machines can

help develop their business facilitates the introduction of bigger machines within the Terex brands later."

The comprehensive portfolio caters for five key industries: Building & Construction Recycling, Quarries, Farming & Agriculture, Landscaping & Gardening and Plant & Tool Hire.

Jamie continues, "An example is in agricultural applications. Our machines offer agricultural contractors an opportunity to diversify in the off season, helping to retain staff and ensure a steady workload throughout the year. When customers are not farming they can use EvoQuip equipment to demolish old farm buildings, process material for lanes, driveways or drainage projects. Certain models in the range can even be transported on an agricultural trailer and can overcome access issues on narrow lanes and country roads."

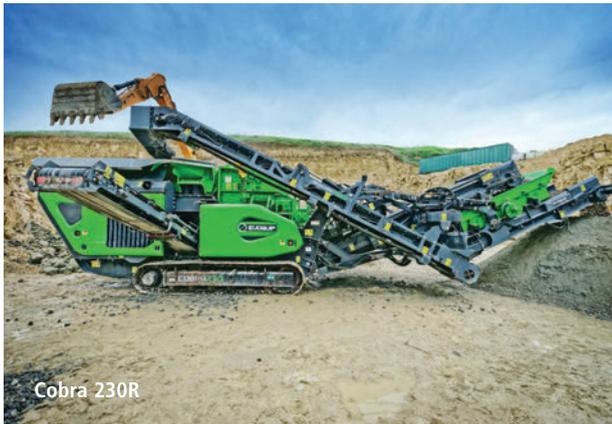
Starting with the Bison 35 crusher—capable of outputting up to 30 tonnes per hour, the EvoQuip range goes up to the Cobra 290R crusher capable of outputting 290tph (320 US tph). Today the Cobra 230 Impact Crusher, and the Colt 600 Screener are very well established and are now amongst the best sellers for EvoQuip.



Colt 1000

New Product Launches

This year has seen three new products to expand EvoQuip's compact crushing and screening portfolio that builds upon the success of its Cobra and Colt ranges—the Cobra 230R Impact Crusher, Cobra 290R Impact Crusher and Colt 1000 Scalping Screen.



Cobra 230R

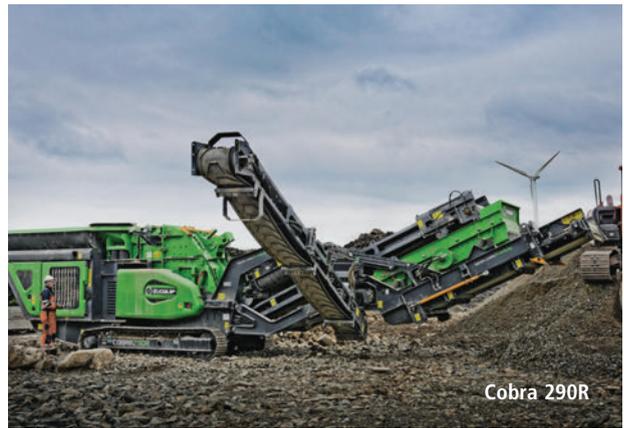
Cobra 230R Impact Crusher:

The Cobra 230R builds on the success of the Cobra 230. A closed-circuit version which incorporates a 2.44m x 1.2m (8' x 4') post screen, the Cobra 230R ensures the required product specification is achieved with oversize material either being recirculated back to the crusher or stockpiled. The ability to quickly detach the complete after screen system including the oversize conveyor, provides the option of either running the machine in standard mode or transporting it separately.

Cobra 290R Impact Crusher:

With throughput potential of up to 290tph, the Cobra 290R has quickly established itself as a force to be reckoned with in the compact crushing sector. It provides class leading productivity, unmatched versatility and excellent fuel efficiency. The quick set up times, simple intuitive operation and ease of transport makes this machine an ideal solution for all applications.

Features include: Patented hydraulic overload protection system, two independent hydraulic controlled aprons, excellent clearance from the rotor to the belt; the short distance from the crusher outlet to the magnet, and the ability to hydraulically raise and lower the conveyor all ensure optimal material flow through the machine and optional vibrating underpan feeder, which offers complete belt protection in heavy duty recycling applications.



Cobra 290R



Colt 1000

Screeners

It isn't by chance that having a range of screeners allows them to work hand in hand with the crushers. With each new crusher a screen has automatically been developed to work alongside the new model.



Colt 1000 Scalping Screen:

This Colt 1000 is the latest addition to the EvoQuip scalping screen range. This highly adaptable scalping screen can operate in both heavy duty and precision-screening applications and will manage the most difficult of materials.

Featuring an aggressive 4.1m (13'6") x 1.22m (4') double deck screen, variable screening angle with numerous screen media options, broad fines conveyor, quick set up time and excellent discharge heights ensures the Colt 1000 distinguishes itself amongst its competition.

Reversible side conveyors, or same side configuration, ensures the 20 Tonne Colt 1000 stays within the compact ethos of EvoQuip, allowing it to work on sites where available space is to a minimum.

Training and Support

While a relatively young brand, EvoQuip products come with the full backing of the Terex powerhouse, and the full suite of support that helps its customers maximise their return on investment.

High on the agenda for EvoQuip is training and application support, with all in-house technical support engineers assisting the ongoing efforts of dealer's service personnel. This team has a vast experience of skills which are refreshed on a regular basis, and are dedicated to providing support through commissioning, on-site training and back-up support for technical issues in instances where dealer service teams cannot resolve problems with the use of the helpdesk.

Jamie tells us, "We have the advantage of having Terex Corporation behind us, so we've got added-value for our customers, such as the parts facility here in Dungannon. Our full package offering adds to a positive experience for our customers which is often not found with new brands."

T-Link Telematics System

A further example of the full suite of support is the T-Link telemetry system that some EvoQuip models can be fitted with. Providing the customer with real time information on the performance of their machine, telematics maximises uptime, parts and service availability and provides factual up-to-date information from the field.



Bison 35

Market Growth

The robust product range combined with a full package of support leads to a young brand that growing rapidly across the world.

Jamie explains, "Sales in general are increasing and our order book for 2019 is looking very good. We are also expanding our dealerships; currently we are well established in North America, Scandinavia and Europe. We also have dealers in Australia, New Zealand and South Africa and we are engaged in establishing dealerships in across Eastern Europe, the Middle East & South East Asia."

"We have just returned from our first-ever US Open Event in Nashville, Tennessee. This exclusive event featured live working demos of the Cobra™ 230R and Cobra™ 290R impact crushers and the Colt™ 1000 scalping screen. It was an important event to engage with our dealers and customers and showcase our new products. We are delighted with the interest shown from the attendees and look forward to building on the momentum of event."

It's clear that EvoQuip are well equipped with their expanding machine ranges to supply the ever-increasing demand for compact machines that can work efficiently within several growth industries.



Cobra 230R

Dedicated parts facility gives Terex Brands a competitive edge

Our final stop during our visit to Terex Materials Processing businesses in Northern Ireland was to the Terex MP Parts Facility, located in Dungannon Business Park.

Opened in July 2015, the facility represents an investment of \$7.2 million by Terex Corporation, an impressive 5-acre footprint with the warehouse occupying 60,000 sq. ft and the main office block 10,300 sq. ft.

The relatively new facility - complete with a sophisticated parts operation - plays a key role in driving the reliable, efficient supply of parts to Terex MP customers, maximising their machine uptimes and return on investment.

Our host and tour guide, Kevin McCaffrey - Parts Operations Director, explains, "We know that having the right part available and delivered at the right time is essential for our customers. As well as this purpose-built facility, we have a full team in place, dedicated to the effective management and supply of parts globally for 227 machine models across six brands—Powerscreen, Finlay, EvoQuip, Terex Washing Systems, Terex MPS and Ecotec."

The vast parts operation employs over 70 dedicated staff, with five line managers to oversee Parts Technical Support, Warehouse and Logistics, Parts Customer Service, Supply Chain and Inventory and Parts Process and Projects.

Kevin continues, "At any one time there are approximately 14,000 individual parts in stock, with a value of \$19 million. As well as our current range of machines, we support



machines 10-15 years in the field and in some cases even longer—which is a testament to our machines' durability. We also have a Unit Down team who are committed to getting critical parts out within 24 hours to ensure our customers can get their machines back up and running as quickly as possible."

Global Parts Backup

Supporting six brands through a network of worldwide dealers, the dispatch operation completes approximately 21,000 orders per annum and also acts as a replenishment hub for the Terex Louisville, Kentucky facility that supports the whole of the USA.





The warehouse operates three shift patterns between 6am and 6pm, Monday to Friday serving two order type categories:

- Standard – (stock replenishment)
- Unit down – 24 hours (machine down in the field)

Seamless Material Flow

Oracle Warehouse Management System is utilised throughout the operation, with barcode scanning at point of entry, pick and dispatch, and integrated automated storage and retrieval systems in place to source the parts with consummate ease.

We entered the vast warehouse and were greeted by Connor Stringer - Warehouse and Logistics Manager, who told us in detail what makes this operation almost seamless.

“Goods-in is a two-stage receipted process where we manually count every single item we receive and check them against the Purchase Order. The parts are then labelled with the part number, bar code, weight, and country of origin before being put away in either fixed storage locators or dynamic locations. We have 14,000 Stock Keeping Units on site and around 80 percent have fixed default receiving locations, most of which are hard wired in the system, so it knows exactly where they should go. The remaining locations are used as dynamic storage, so the system will look at whether it has a default location, or shows a suitable field location.”

“The stockholding is split into eight different areas based on size of the part, the velocity of the part and value of the part. The small parts system is automated into three Hanel Lean Lifts, each with 60 shelves and with each shelf capable of holding 48 different components.”

Online Parts Ordering System and Helpdesk

Orders are received via an e-Commerce online ordering system, with the customer service team managing the open order book, communicating status with dealers and planning despatches. An online helpdesk is used to track and communicate with dealers.

Connor continued, “Our dealers place orders automatically through our online ordering system. The pick release operates automatically on the half hour every hour with a guarantee that if picked before 3pm, it is shipped the same day. We ship on average 5-600 lines per day, with approximately 50% same day shipment.”





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Safely or Not at All - Using Materials Handlers for Waste Operations



Industrial and commercial waste systems flow a continuous stream of material with the productivity and efficiency of a site relying heavily on the effective use of equipment. The materials handler is a vital piece of machinery on most waste and scrap handling facilities. It is proven that a safe site makes for a more productive site and workforce and the use of materials handlers forms part of that.

Materials handlers come with their own operational challenges. Evolved from 360 excavators, these machines are designed to provide sites with a method of transferring material from one location to another. Their raised cabs allow for enhanced visibility when working with stock piles, conveyor systems, loading and unloading ships, containers and lorries or bins, allowing the operator to gain a clear view of the material being handled.

Like all items of plant, this machine has diversified its operational capabilities with additional attachments being introduced to allow for compaction and shearing of the varying materials typically found on waste or scrap facilities.

Correct operation starts with basic training and support from the manufacturers; here we present some safety reminders to those who operate and those who are responsible for supervising the use of materials handlers.

The Right Attachment

Changing an attachment on mobile plant equipment can, on occasions, be time consuming resulting in shortcuts being taken. It is important that the operators on site are aware of how to choose the correct attachment for the job, understand how to safely and correctly change the attachment and appreciate the damage that can be caused to loads and machinery if handled incorrectly.

Knowing which of the attachments to use with different materials should be decided when reviewing the operational tasks and selecting the equipment. The manufacturers will support with this decision-making process and once selected, a risk assessment, SSoW and any manufacturers guidance should be used to ensure all operators work to the preferred guidance. This will then give the operator and site management a clear and concise route to take to complete their job safely and to the required industry standard.

Remember that all basic training should include at least one attachment type. Following basic training, where additional attachments are utilised, operators should also be trained to use these different attachments correctly via conversion training.

Compaction of Waste

This is something that, as a training provider, Mentor comes across regularly. Using this machine to compact waste by hammering the waste down in bins is incorrect; there should be no need to hit the waste with force as it damages the machine and bins and can cause shards of debris to be showered from the bin especially when compacting wood. Manufacturers have proven that by using the machine to apply pressure, the amount of waste in each bin can be maximised just as effectively and with no damage to the machine or danger from debris.

Three Points of Contact Rule

Every year, falls from height including from materials handlers, injure approximately 8% of people working in the UK.

It sounds simple, but it is surprising how many operatives do not follow this basic principle. By applying the three points of contact rule, risk of injury will be dramatically decreased. The rule simply states that when accessing or egressing the cab, there should be 3 points of contact until seated or fully outside the machinery. This means one foot and two hands, or two feet and one hand must remain in contact with the steps, grab irons or hand rails at all times; the rule applies in all working environments.

Understanding the machine, being confident in the principles of its use and following key safety measures will allow the operative to carry out safe operations on a waste site.

For more information on being trained to operate machinery on a waste site or finding out about how waste training could be beneficial to your operation, contact us today on 01246 386900 or visit www.mentortrainingsolutions.co.uk.



Engineering the tail end of tailings

By Adam Holland, Head of Business Development for Mining, CDE



My job is never boring. I have been traveling around the world for a year, visiting mining sites in Latin America, Australia and Africa and of course here in Ireland to discover what makes each of them tick and find the most efficient ways to bring optimal yield and minimal waste. When it

comes to tailings dams, I have seen the good, the bad and the ugly. So much has been written about the viability of dams and the dangers associated to their sheer existence, but there is still a long way to go in terms of stepping back from mere observations and consolidating empirical research to allow the development of fool-proof solutions. The more we understand about them, the more we can bring the perfect mining waste management solution to mining

operators, with a view to eliminate the need for tailings dams thanks to the advancement in materials wet processing technology.

The total number of active tailings impoundments was loosely estimated at 3,500 in a variety of reports circa 2012, but this figure is disputed and no up to date evidence-based data exists to allow solid comparative research of the actual impact tailings dams across the world have on the environment. Correlatively, this means piecemeal solutions are the norm until a global approach to mining pollution can be considered. But piecemeal is not good enough in times of crisis.

Alarm bells have been resounding across the mining industry for years as numerous tailings dams' failures have resulted in unspeakable damage to the environment and to the lives of thousands. Dam collapses have been affecting mining operations indiscriminately throughout the world from the Philippines to Russia, via Brazil and the United States to name just a few.





On a trip to Brazil in August to make the case for iron ore tailings management and beneficiation with CDE clients, I witnessed how the Samarco disaster has reshaped the environmental legislation in Brazil, now focused on active prevention coupled with remediation. The Samarco iron ore mine is a case in point when it comes to lessons learned from a disaster that was widely covered by the media in 2015. As the company took stock of the consequences of the dam's failure on the socio-economic and environmental make-up of the region, this initiated comprehensive solution-led research with a view to ensure this could never happen again.

The Renova Foundation, created following the Samarco disaster to make sense of the tragedy and provide a practical solution to human, environmental and industrial challenges, sets the tone of action: knowledge-based restoration, reconstruction, production, all three strands being addressed in synergy to allow for a comprehensive solution to be achieved. In the context of the Brazilian government's renewed focus on fighting waste pollution and turning every ounce of earth's resources into valuable materials, it is timely for CDE to contribute to the edifice of change by developing bespoke modular tailings management and beneficiation solutions that actively contribute to restoring faith in the benefits of mining operations on the local economy and

turning mining waste into revenue or materials for use in environmental rehabilitation.

In doing this, CDE seeks to repeat the success of its projects with Vallourec in Brazil. Ahead of the curve for tailings recovery and remediation in the region, Brazilian mining operator Vallourec and CDE have developed and successfully run a CDE dewatering system which has rehabilitated a tailings dam, helping to change the mindset towards tailings management by utilising recovered solids in ground remediation and road brick manufacture.

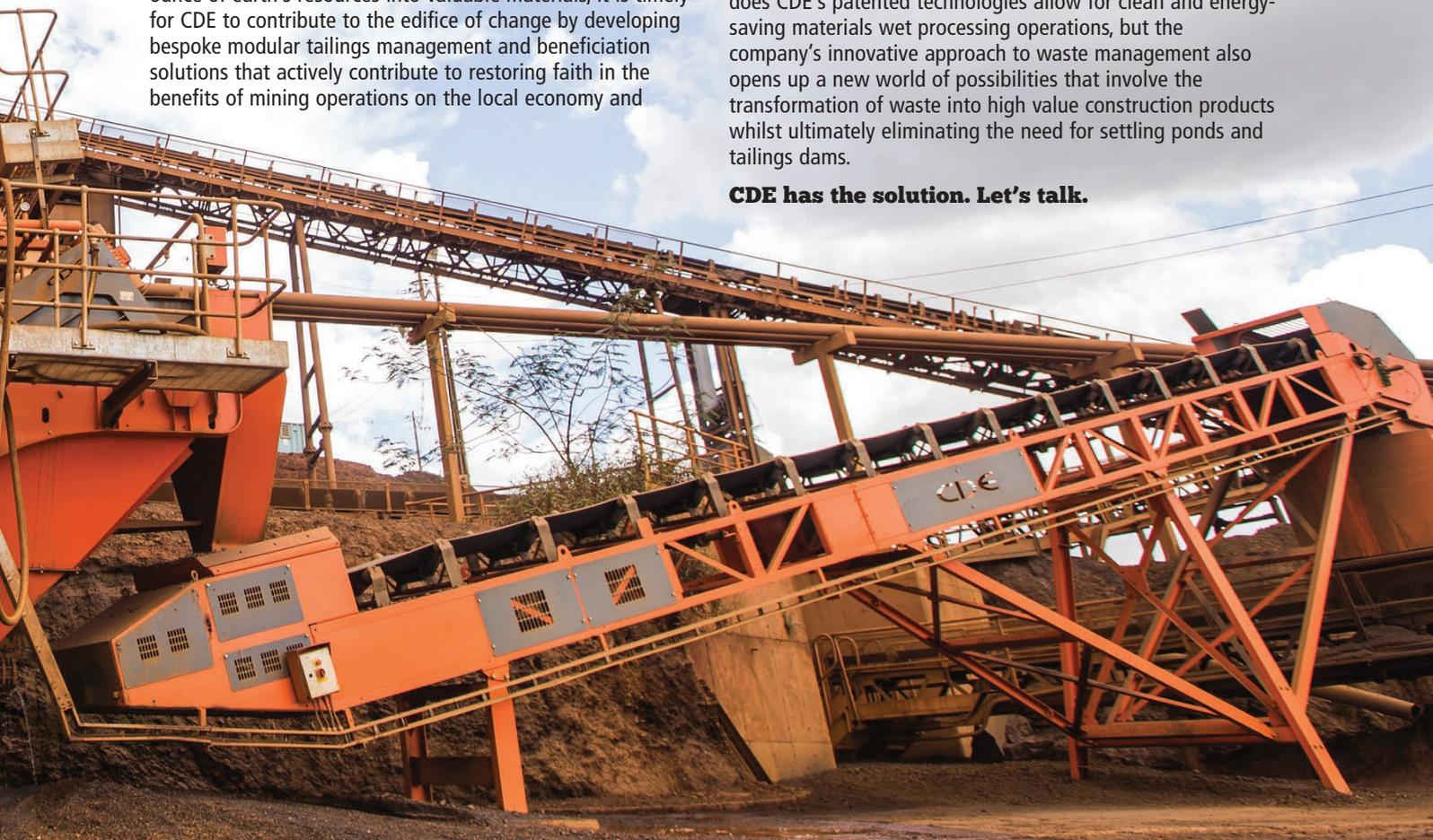
The proof is in the process: six EvoWash™ washing units dewater 30,000 tonnes per month of materials which are stockpiled as a dry product.

Two banks of cyclones remove 30% of the mass (15,000 tonnes per month) to a filter press. The resulting cakes are used in soil composition and road brick manufacture. Strikingly, this bespoke modular wet processing solution allows for 45,000 tonnes of material to be diverted from Vallourec's tailings dam on a monthly basis.

On the strength of this significant achievement in Brazil – the process being replicated with adequate materials and needs-based variations across the world – CDE is working on becoming a positive actor in the clean-up effort emanating from the Samarco legacy. As the business continues to develop ever more efficient means to manage tailings whilst adding value to mining operations, modular tailings recovery systems are set to become the next priority for companies under pressure to meet both their business and environmental targets.

CDE's 'New World of Resource' ethos runs through every strand of the business, embedding a commitment to reduce waste as well as remediate and turn it into value. Not only does CDE's patented technologies allow for clean and energy-saving materials wet processing operations, but the company's innovative approach to waste management also opens up a new world of possibilities that involve the transformation of waste into high value construction products whilst ultimately eliminating the need for settling ponds and tailings dams.

CDE has the solution. Let's talk.



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Mecalac reveals technical specification for MDX site dumper range

Following its global launch at this year's INTERMAT exhibition (23-28 Apr), Mecalac Construction Equipment UK Ltd has revealed the full technical specifications of its eagerly-anticipated MDX cabbed site dumper range. A Stage IIIB-compliant engine, all-new dashboard design and a ground-up focus on site safety features makes the MDX Mecalac's most innovative site dumper range ever.



Available in both six and nine-tonne payloads (6MDX and 9MDX respectively), each model pairs stylish design with impressive operator functionality. A curved glass isolated cab, inspired by the highly-acclaimed Mecalac MWR wheeled excavator, provides outstanding visibility while minimising noise and vibration.

For the 6MDX, an operating weight of 4,950kg ensures outstanding manoeuvrability, while boasting a top speed of 28kph for improved productivity. The 9MDX offers similarly impressive statistics, with a narrow body width for effective operation in tight spaces complemented by an operating height of 3,430mm for best-in-class visibility and ground clearance.

Both models adopt a highly-efficient 3.4L, 55kw Perkins 854 IIIB-compliant engine, generating 424Nm of torque. DPF exhaust after-treatment (with passive regeneration) ensures both models meet international emissions standards, while next generation Power Brakes, driven by the main hydraulic system, deliver significant improvement in pedal feel and braking effort.

While operator comfort is prioritised through easy-access controls, optional air conditioning and an all-new dashboard design, industry-leading safety credentials ensure the MDX range stands out from the crowd.

Alongside a forward-facing camera factory-fitted as standard, high-visibility access steps ensure safe entry and exit for operators. Flashing green seatbelt beacons, LED work lights and protected tail lights ensure each model is both visible on site and suitable for both day and night operation.

As with the standard Mecalac ROPS site dumper portfolio, each MDX model can be fitted with Mecalac's Shield technology packs to further enhance site dumper safety for operators nationwide.

Shield – Standard on all 6 and 9 tonne models from August, Shield is Mecalac's first-stage technology upgrade pack. Key features include:

- Start and drive interlock
- Seatbelt/handbrake/service warnings
- Speed limiter (factory set)
- Idle shut-off
- Stop/Start Control™
- Park brake test

Shield PRO – Building on entry-level features, Mecalac's Shield+ upgrade pack adds:

- Skip interlock
- Tilt limit
- Rollover lockout
- Fuel loss warning
- Custom speed limiter and idle shut-off (via Bluetooth and smartphone app)

Mecalac's Hazard Detection and Capture Telematics packages can also be specified for both the 6MDX and 9MDX.

Kenny Price, Business Development Manager for TDL Equipment commented: "The MDX range takes the cabbed dumper platform to the next level with its unparalleled integration of the cab design. By putting the operator at the heart of the design, Mecalac have produced a dumper with the best accessibility, comfort, and safety features in the market. The MDX range is now available to order through TDL Equipment in the Central Belt and Southern Scotland."

For more information about the Mecalac range, visit www.tdlequipment.com or contact Kenny Price on 07534 929405 or email kenny.price@tdlequipment.com



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Together with the unmatched properties of Hardox® Wear Plate, this network is able to offer a complete package in terms of wearparts to best solve your problem areas. There is a wealth of knowledge available to each centre, by talking with their designated Wear Service Managers, industry and segment experts at SSAB headquarters in Sweden, as well as discussing certain success cases amongst each other.

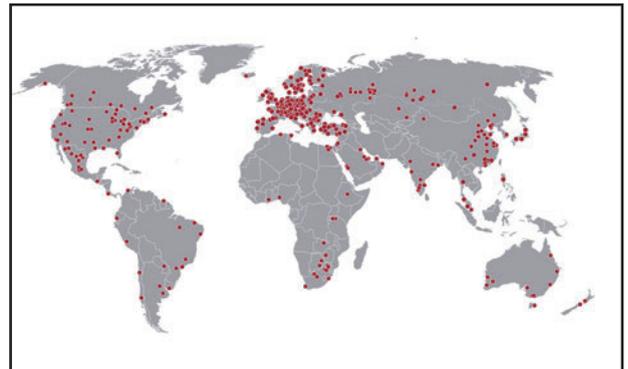
This was extremely evident during the early stages of October 2018, when the Global Conference for Hardox Wearparts® was held in Nyköping, Sweden. 330 participants took part in the event, and it was great to see just how much each and every one of them valued the experience. These participants came from far and wide, and were a true reflection of just how powerful this network has become. Comprising of a whopping 450 members to date, in as many as 88 countries, it is by far the largest network of its kind, and it keeps getting stronger.

Not only does this network provide the quality of Hardox® Wear Plate, but it has a number of complementary products on offer, to best suit every situation.

Products currently on offer through the network:

- **Hardox® Wear Plate** – The World's leading abrasion-resistant steel with its ability to combine excellent abrasion-resistance, together with toughness and workshop friendliness placing it streaks above the rest.
- **Strenx® Performance Steel** – Offering performance beyond any ordinary structural steel, to help you achieve stronger, lighter, safer and more sustainable products.
- **Toolox® Engineering and Tool Steel** – Pre-hardened Tool Steel, with unmatched hardness and toughness. Available in plate and bar, this product can work up to 590 degrees Celsius, guaranteed.

- **Duroxite™ Overlay Products** – The latest in overlay technology, tackles those severe sliding/erosive wear areas with guaranteed wear properties down to 75% of the overlay surface.
- **Duroxite™ Wire** – Hard Facing wire designed, and guaranteed, to match the wear resistance of our Duroxite 100 plates.
- **Bi-Metal Range** – A range of products such as chocky bars, buttons and wear strips, made up of a mild steel base for easy installation and, a chrome-moly white iron surface (700BHN) for excellent wear resistance.



We currently have 13 members in the UK today, scattered all over the country to best service the market. All of them have a wealth of knowledge, and capabilities, and would love to keep you up and running, minimizing your down time.

I encourage all of you to visit www.hardoxwearparts.com, for more information on the network, or to get a quote from your nearest member today.

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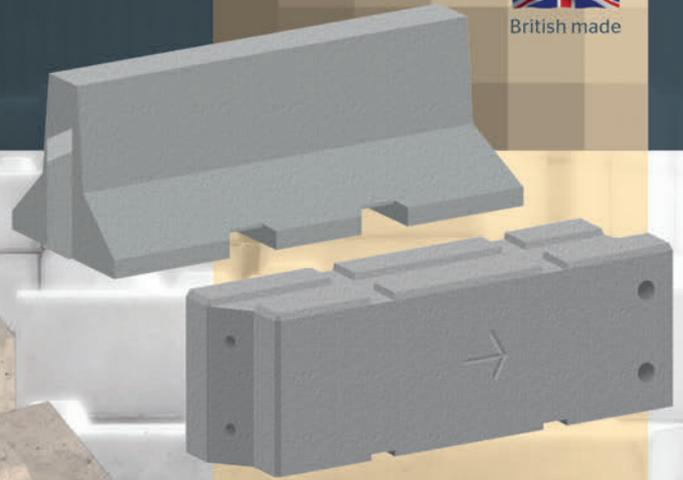
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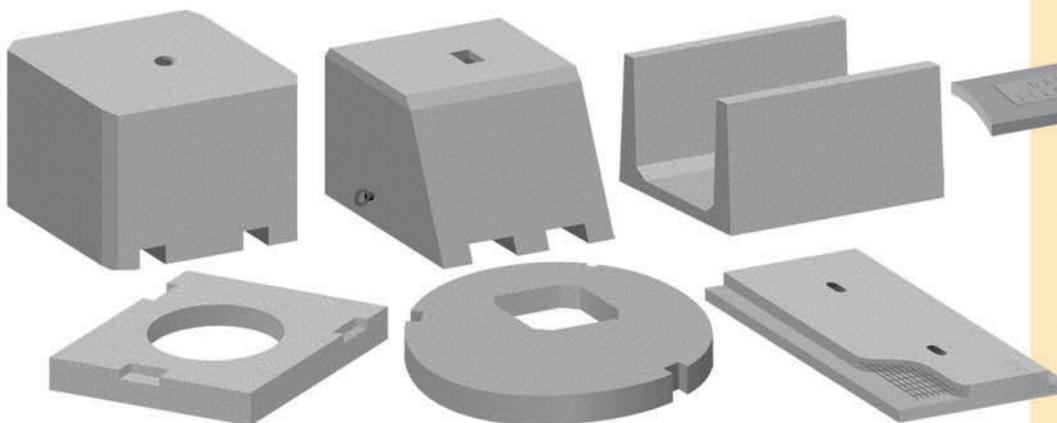
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CASE G-Series wheel loader - one year on

A year on from its launch, CASE Construction Equipment's G-Series wheel loader has impressed operators with its combination of comfort, visibility and protection; proving to be a valuable tool in the process.

A breakthrough in operator comfort

Operator comfort was central to the launch of the G-Series wheel loaders. Premium seats, fitted with automatic adjustment technology, use a combination of operator's weight and the external terrain to deliver perfect suspension balance. Much like an excavator, each seat also features two equally sized ergonomic joysticks mounted to the wide armrests to control steering and bucket movement. This decision has been hugely popular, with operators reporting to CASE that they find the controls highly intuitive and easier to use for longer periods.

Totally unobstructed view

One of the most exciting takeaways from the G-Series launch was the inclusion of a panoramic view – the first of its kind in this class – and the completely unobstructed viewpoint this offers. "The G-Series brought together 60 years of CASE innovation, and we are delighted that the added focus on operator comfort and safety has proven to be so effective and well received," said Anthony Holmlund Bouvié, CASE Construction's Business Director for Northern Europe. "Many new customers have labelled the panoramic view as a revelation within the wheel loader market and a key factor in their decision to choose the G-Series," Holmlund Bouvié went on to say: "It's great that that this new feature has had such an instant impact."

Reliable, clean and easy to maintain

CASE made sure to pay as much attention to the outside of the G-Series as the inside. This resulted in an engine that delivers high torque performance at low rpms while not requiring an EGR valve or DPF. Several fleet buyers across Europe have cited that having Tier 4 final engines without a DPF



significantly reduces their operating costs and improves reliability and thus has been crucial to their decision to purchase the CASE G-Series wheel loader.

Holmlund Bouvié concluded by saying that "CASE is delighted that so many respected and pioneering companies have decided to adopt the G-Series. We feel as though this is testament to its pioneering vision and decision to focus on people in the age of automation."

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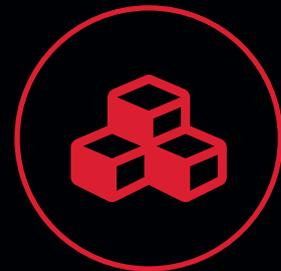
This project features a CDE dual pass EvoWash™ wet processing plant, which is processing 250 tph of raw feed to produce two sands simultaneously, ready for market straight from the belts.

*Patented slurry point pivot access: GB Patent No. 1305959.7



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Production flows at Angle Park Sand & Gravel Ltd

Thanks to the recent arrival of a 25-tonne Volvo L150H loading shovel complete with a 4.3m³ rehandling bucket and Volvo's patented Co-Pilot Load Assist feature.

Angle Park Sand & Gravel Ltd is an independent family-run business that was incorporated in 1961 by founder Frank Cuthbert and operates two sand and gravel pits close to Ladybank, Cupar, in the Howe of Fife.

Today, the business is run by father Ian and son Peter, representing the second and third generation of Cuthberts in residence at their Melville Gates and Mountcastle pits. "We've been working the Melville Gates site since 1971 and have owned and operated Volvo equipment pretty much from the start," explains Peter Cuthbert. "We moved into the adjacent Mountcastle site five years ago and as the development of the site has progressed, we saw the need for a large loading shovel to take care of our production requirements," he continues.

The new L150H is the company's largest loading shovel to date which was displayed at this year's ScotPlant event. The machine is in charge of all the main activities at the Mountcastle pit including digging at the face, feeding the plant and loading out road going wagons. "We specified the machine with boom suspension for long load and carry work but also, with the larger capacity bucket, we can turn vehicles

around much quicker too," says Peter. "Another important point for us was opting for the Volvo Load Assist feature and this is really paying dividends towards the machine's efficiency on site. There is less than 1% discrepancy between what the machine is loading to, to what is weighed on the weigh-bridge and this saves significant time when loading vehicles, forgoing the need for them to top up or discard excess loads which makes our production flow faster."

The L150H benefits from Volvo designed and manufactured driveline components designed to offer considerable fuel savings every shift with a 13-litre 300hp Volvo stage-IV engine. One of the key features is that a maximum torque of 1317Nm is achieved at just 1,450rpm with the resultant fuel savings further enhanced by the Volvo Eco-pedal, encouraging the operator to run the machine at its optimum rpm in the engine's torque.

"We certainly appreciate the reliability and performance of the Volvo loading shovels and, so far, our largest machine to date is doing a great job in our Mouncastle pit," says Peter.

Angle Park Sand & Gravel Ltd is a family-run independent supplier of quality sand and gravel and currently operates from two units in the Howe of Fife, allowing efficient delivery of its products throughout the Central Belt of Scotland and providing sand and gravel supplies to the domestic and commercial markets.





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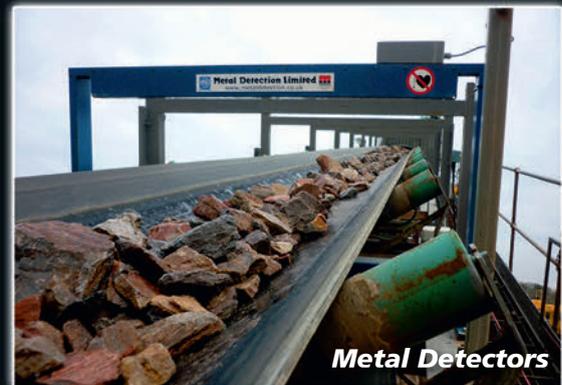
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SCS do not just do Screen Media but Linings too!

SCS is well known as one of the UK's largest suppliers of screen media but alongside that SCS is a respected supplier of linings. SCS supplies and installs linings made from different materials such as rubber, polyurethane, polyethylene, Brinell steels, steel backed rubber, etc.

The most common reason to install linings is to try to reduce wear. One way this can be achieved is by installing of linings with a longer service life. One of the most cost-effective lining materials on the market is rubber, as it has a good resistance to sliding wear and excellent impact resistance. Rubber comes in many varying forms such as pure rubber sheeting, rubber sheeting complete with a bonding layer, stabilized fabric backed rubber sheeting and steel backed rubber.

Although most rubbers look the same there are a few characteristics that control their quality and their suitability to an application. The normal way to qualify the wear resistance of a rubber is by abrasion resistance rating, a good quality rubber is normally a 120mm³ or less the higher this number the lower the abrasion resistance and hence the quality. The shore hardness of rubber has no bearing on the quality of a rubber, but different applications do suit different shore hardness's of rubber.

The installation in the photos is a typical screen discharge chute lined with steel backed rubber liner tiles. This installation utilises the standard 330mm square tiling system for the base of the chute and on the sides half size tile have been used. These tiling systems once installed are easy to maintain and stock spares for. The tiles are available from SCS in two different thicknesses 25+5 and 45+5mm thick.

SCS can also supply bespoke steel backed liners tiles made from stocked sheets of 2m x 1m steel backed rubber, that come in the following thicknesses 15+3, 25+5 and 45+5mm.

If you would like more information on Steel Backed Rubber Linings or any of our other products and services, please call our team on 01788 553300, or email sales@scsrugby.co.uk

McLanahan Modular Wash Plants

Experienced with modular wash equipment since the 1960s, McLanahan Corporation has the in-house expertise needed to develop wash plants that allow customers to meet their processing requirements. The company's new line of modular wash systems - called the UltraWash - provide the reliability, simplicity and efficiency that producers need from a modular plant.



All equipment that is part of the UltraWash Plants, including the vibratory screen, hydrocyclones, dewatering screen, sump and pump, is based on the company's well-known, field-proven designs. UltraWash Plants provide a quick, easy-to-install processing system. UltraWash Plants are ideal for producers facing criteria such as planning permits, multiple locations, short-term deployment, or an unknown/variable feed stock (e.g. C&D waste streams applications) that make implementing a customized processing solution difficult.



That is where smaller footprint, skid-mounted modular plants such as the McLanahan UltraWash come in. The UltraWash allows operators earlier permitting and fast set-up, resulting in earlier returns on investment. These modular wash plants come in preassembled modules

that are pre-wired and pre-plumbed for rapid, on-site deployment. They feature a fully integrated control system with remote operation.

Currently available in three sizes, the UltraWash can produce up to three aggregate products and up to two sand products. There is a single process water feed point, as well as a single effluent discharge point.

We currently offer several additional configurations and add-ons to the UltraWash, including:

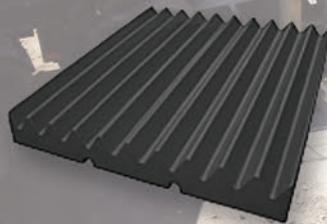
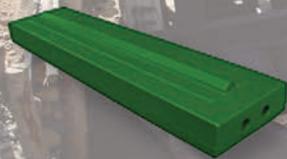
- Single or dual sand product
- Feed preparation (log washer, blade mill, coarse material screw)
- Attritioning module for specialty sand production
- Organics removal module
- Water treatment with high density or paste style thickener
- Filter press for complete wastewater treatment

While there are a number of modular plant solutions available in the market, McLanahan is one of the only companies offering both custom and modular washing solutions. This, combined with years of processing design knowledge, provides unmatched industry expertise in providing the correct solution for your application.

McLanahan Corporation was founded in 1835 in Hollidaysburg, Pa., USA. Today, the company is in its fifth and sixth generations of family ownership with offices that provide local service and support in Asia, Australia, CIS, Europe, Latin America and North America.

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Eriez Magnetics Europe Ltd celebrates 50 years of manufacturing excellence



The first order – April 22nd 1968

Eriez Magnetics Europe Limited, the leading manufacturers of magnetic separation, metal detection, vibratory feeders and fluid filtration technologies is celebrating 50 years of manufacturing excellence.

Eriez Magnetics Europe Ltd. was established when Bob Merwin, CEO of Eriez Manufacturing Co. in Erie, USA recognised the opportunity for a European manufacturing headquarters. In order to drive the company into the European market, Eriez North America collaborated with Sir Alfred Nicholas, founder and chairman of South Wales Switchgear Ltd. based in Wales, UK, to establish a European licensee. In 1968, John Lee and Son placed the first order for a lifting magnet.

South Wales proved to be the ideal location for guiding and evolving Eriez in the European market, thanks to the coal mining and engineering industries in the local area.

Since then, Eriez Europe has thrived in technological innovations, productivity and expanded their manufacturing facilities. By 1991, Eriez had outgrown the original factory and required more space to meet increasing sales demands. As a result, the factory relocated to a larger, more modern site whilst remaining in the South Wales region.

Following the relocation, the 90s was a pivotal period of growth for the company. By 1992 Eriez Europe became the first manufacturers of magnetic separators in the world to attain the BS5750 (ISO9001) international quality standard and developed an expansive range of pioneering magnetic separators, including the first concentric Eddy Current Separator for recovering non-ferrous metals and large diameter Rare Earth Roll Separators for non-metallic minerals processing. In recognition of their success developing business overseas, Eriez Europe received an award for Export Achievement in 1996.

Over the last fifty years, Eriez Europe has not only grown organically but secured key strategic acquisitions that have expanded the company's product offering, with opportunities to enter new markets and increase business prospects. In just a year, Eriez obtained metal detection specialists, Pulse Technology (1998) and manufacturers of sampling systems, Priset International (1999).

The most lucrative acquisition was obtained in 2001, when long-term competitor Boxmag Rapid was added to the product portfolio. Eriez was firmly established as the UK's premier supplier of magnetic separators, metal detectors, vibratory feeders and sampling equipment.



Andy Lewis (Chairman of Eriez Europe), Tim Shuttleworth (CEO Eriez Global Manufacturing Co.), John Curwen (Managing Director of Eriez Europe) standing in front of the new high-speed balancing machine.

In the late 90s, Eriez established a superconducting magnet division in response to the purification requirements of companies processing kaolin. This culminated in the development of the world's first cryogen-free, superconducting Powerflux high-gradient magnetic separator, of which the first production unit was installed in 2001. This was followed by the design and manufacture of the world's strongest suspended magnet, the SSE (Suspended Superconducting Magnet), where the company was rewarded the title in the Guinness Book of World Records.

To facilitate further growth, in 2007, Eriez invested in a new magnetiser, enabling greater productivity and increasing the magnetic strength of permanent magnetic separators.

Eriez soon outgrew the manufacturing base obtained in 1991 and in 2011, purchased the adjacent building and land. The second plant is now a dedicated manufacturing space for suspended permanent magnets and suspended electromagnets spanning 5000 square metres with a 50 tonne crane capacity.

As the cost of sending material to landfill continues to increase throughout Europe, the emphasis placed on recovering optimum, clean fractions of ferrous and non-ferrous material has never been greater. With generations of technical expertise and experience on offer, Eriez provide a full range of separation equipment to the recycling industry, serving all requirements and applications.

In 2014, as a result of the ongoing success of supplying equipment to customers in the recycling industry, Eriez Europe launched their innovative, purpose-built recycling separation test centre. The recycling centre welcomes customers to test their samples of material on Eriez recycling equipment in order to determine which combination of machinery is most suitable for their processing needs.

Eriez' continuous commitment to customer satisfaction has always been at the forefront of the company's operations. Since their first accreditation in 1992, the company has continued to meet the ever-growing customer demand for the highest levels of quality. In 2016, the company's ISO 9001:2008 certification was upgraded to the new ISO 9001:2015 standard.

Eriez have utilised their wealth of knowledge and experience, reaching beyond their manufacturing scope and developing business partnerships to assist in research and development in various sectors. Fault Current Limited was founded in 2012 as

a business spin-out from magnetic research undertaken by Dr. Jeremy Hall, at the Wolfson Centre for Magnetics at the local university in Cardiff, South Wales. A device was developed which protects power systems from disruption and damage to network infrastructure. The concept uses innovative magnetic technology that allows the existing power grid to manage excessive fault conditions. In 2017, Eriez acquired 30% in FCL, and was responsible for manufacturing the full-scale prototype.

Despite Eriez gaining manufacturing space of their second plant in 2011, further growth in sales and production activity necessitated an additional extension. The CEO of Eriez Global Manufacturing Co. Tim Shuttleworth officially unveiled the brand new 362 square metre manufacturing facility, which is dedicated to rotor manufacturing, light fabrication assembly and additional product line assembly.



The new Light Fabrication Bay in the 2018 extension

The investment to Eriez Europe includes a high-speed balancing machine and a filament winding machine to facilitate the intricate manufacturing of Eriez advanced range of Eddy Current Separators, designed to recover non-ferrous metals from a wide variety of waste streams. The new facility will increase the production capacity of ECS units by a third, per year.

In May 2018, certification was given to Eriez' MetAlarm EX range for ATEX 21 and ATEX 22 dust zones, providing a fully certified solution for customers looking to be alerted to the presence of metals in order to reduce the risk of explosions within their plants. The MetAlarm units already hold a market-leading position within the mining, quarrying, recycling and processing industries, offering reliable and user-friendly performance for ensuring machinery protection and product quality. The ATEX units will now extend the scope to applications in explosive dust environments where ignitable materials such as biomass, wood or coal are present. In environments where explosive dusts are present, sparks from undetected metal contamination could be a potential ignition source.



ATEX Metal Detector on-site, processing woodchip material.



Eriez Suspended Permanent Magnet

John Curwen, Managing Director comments – “Eriez Europe has demonstrated remarkable growth since 1968 and we are immensely proud of what has been achieved. The root of our achievements stems from Eriez Europe’s employees and their dedication to selling, designing and manufacturing high-quality equipment as well as our loyal customer base. The fundamental investments made to Eriez Europe have allowed

the business to grow exponentially – we are proud to have advanced from a £13 million company to £21 million in a short space of time. The past fifty years has witnessed a commendable journey for Eriez Europe and we are confident our growth and success will prosper into the next chapter.”
For more information visit www.eriez.eu



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Westminster Waste Streamline Their Processes to Build an Efficient Waste Business

Westminster Waste, based in the heart of London, have carried out major upgrades of their processing plant this year, in partnership with recycling plant builder, Kiverco. As an innovative and fast-moving company, one of their key objectives is zero waste to landfill. The recent upgrades have not only helped achieve this but also enabled them to create a more streamlined and efficient plant that produces high-quality end-products.

A Complete Overhaul of the Wood Processing Facility

At the start of 2018, refining their products for the biomass industry was a top priority for Westminster Waste. To do this they needed to overhaul their existing facility, so they consulted with the Kiverco team who were able to design a more efficient, streamlined plant. Where they previously used a selection of mobile machines to do the job, Kiverco recommended one processing line which extracts the fines and recirculates the oversize material, leaving perfectly graded wood chip which then passes over a metals separator to remove ferrous and non-ferrous metals. This has allowed Westminster Waste more throughput and helped them to produce a much cleaner product.

Keeping the Plant Operational



With the Construction & Demolition side of the business, Westminster wanted to increase tonnage and extract more recyclables. One of the key elements of this

project was that they needed to keep the plant operational during the upgrades, to ensure minimal downtime. Kiverco developed an installation schedule that enabled them to work over two planned weekends, thus, not affecting the incoming waste streams.

These major upgrades to the processing plant included a robust pan feeder, Spaleck screen, electro magnet and outside of the main building, a 4-bay picking station. Again, considering the zero to waste objective, anything that cannot be extracted for recycling is processed into Solid Recovered Fuel.



Dominic Moule, Managing Director of Westminster Waste says "Kiverco did a great job on the install and kept on schedule which had minimal impact on the yard itself. Recycling/recovery-wise, we are now reaping the rewards of these upgrades."

John Paul Devlin, Kiverco Sales Manager, says, "When we first met Dominic, we listened to the challenges he was facing and where he wanted to take the company over the next few years. Based on this, we were able to come up with a solution to help him grow the business and take it to the next level. Westminster Waste is an innovative company, who want to keep improving now that we've built up a good relationship and worked closely together this year, they know that Kiverco don't just talk about how we can help, we actually come in and do it."

For more info visit www.kiverco.com



Five signs of a good wheeled loader

David Banks, JCB's Sales Manager - Waste and Recycling Sector, offers guidance for sites seeking a wheeled loader

As waste and recycling throughputs increase and sites expand, demand for wheeled loaders is growing. But what should you look for when seeking a wheeled loader that will deliver optimum performance across your business?

There are really five key areas to consider: productivity, power, safety, operator comfort and reliability.

1. Productivity

Waste and recycling site operators demand that all equipment performs consistently at peak levels of productivity and that means keeping downtime to an absolute minimum.

It will help to limit downtime if the design of the vehicle allows maintenance or servicing work to be undertaken as easily as possible, so it is sensible to choose a loader with a single-piece bonnet that makes accessing the diesel and DEF (Diesel Exhaust Fluid) tanks straightforward.

Once under the bonnet a machine fitted with group test ports will ensure that checking brake, steering and hydraulic system pressures is easy, while an accessible main fuse box will also slash servicing time further.

Consider the loader's braking system too. Braking systems that use full dual circuit hydraulics with multiple oil-immersed discs will be virtually maintenance-free throughout the wheeled loader's lifespan.

2. Power

Wheeled Loaders used on waste and recycling sites will benefit from plenty of low-end torque, maintained over a wide power band. When such a power unit is installed into a machine manufactured from lightweight materials, you can expect an excellent power-to-weight ratio.

For fuel economy it's important that the wheeled loader has an engine idle shutdown feature that can safely apply the brakes and turn the machine off after a programmable amount of time.

Fuel consumption can be further reduced if the machine has a hydraulic cooling fan, which automatically reacts

to ambient temperature and adjusts the wheeled loader's fan speed to optimise cooling and reduce fuel consumption. An additional benefit is that it will also lower on-site noise.

3. Safety

On-site safety is paramount, so to ensure that you choose a wheeled loader that has been designed with the well-being of the operator and other site workers in mind, look for the following:

- Inclined and equally spaced access steps complemented by well positioned grab handles that ensure three points of contact at all times;
- Rear-view mirrors mounted in front of the A-pillars to improve visibility. Rear view monitors are worth considering on busy sites where wheeled loaders often work around pedestrian staff;
- Interior mirrors, heated exterior mirrors, and bonnet mirrors that combine to give views to every corner;
- Fender flaps designed keep spray to a minimum.

In addition, to reduce the risk of collisions, it is worth considering technology that alerts the operator to any pedestrian traffic that may be close to the area where the wheeled loader is working. For example, Proximity Braking Systems can be fitted to multiple machines on a single site and automatically sound an alarm in the cab and apply the vehicle's brakes if a person enters a pre-set exclusion zone around the machine. Some advanced Proximity Braking Systems also deliver a warning to the at-risk pedestrian via a vibrating transponder attached to their safety helmet.

4. Operator comfort

Wheeled loaders work long, hard shifts on busy, noisy and dusty sites, so it's important that the operator has a spacious cab that is comfortable, quiet, and designed to provide the highest levels of all-round visibility.

Look for an isolator-mounted cab, compliant with ROPS/FOPS standards, and positively pressurised against dust that offers excellent visibility, whether to the front down to the bucket or to the rear.

To reduce operator fatigue over the most demanding shifts, seat-mounted controls are hugely beneficial and it's also important that the driver has good visibility of efficiency data such as fuel use. Full colour LCD screens are ideal for providing operating menus and can also act as a monitor for a rear-view camera.

5. Robustness and reliability

A typical waste site presents an arduous environment for materials handling vehicles so look for extra guarding for the cab and lighting, underbelly protection for the driveline and transmission, and heavy-duty puncture-resistant tyres.

Robust design will be indicated by an articulation joint with a heavy-duty box section, a heavy-duty centre pin and oversized bush, as well as twin taper roller bearings on the bottom box joints. This setup can easily tolerate vertical and horizontal loadings. Hoses should be neatly routed and clamped through the articulation joint, well away from any pinch points.

A counterweight designed to be larger than the bonnet will protect the rear of the wheeled loader, including the rear lights and cooling pack, from damage.

Integral steel fluid tanks will offer a far superior solution to the plastic tanks that are used in some machines.

JCB's Wastemaster wheeled loader line-up extends from the 9 tonne 411 to the 20 tonne 457, which is designed to work in high output transfer stations and Materials Recovery Facilities, where large volumes of material need to be handled. Typically, the machine will be used to load hoppers and trucks and stockpile Municipal Solid Waste and other recyclables.

These wheeled loaders have been designed to meet the demands of working on arduous sites and feature front and rear light guards, belly guards, a full front screen guard, a carbon filter, a wide core cooling pack and an adjustable hydraulic reversing fan. They are available in a variety of model configurations – all designed to provide safety, efficiency, ease of use, ease of maintenance, productivity, performance, reliability and comfort.



Matpro Appointed Exclusive Ecostar Distributor for UK & Ireland

Matpro Machinery Ltd has been appointed as the exclusive distributor for Ecostar equipment within the UK and Ireland.



Matpro and Ecostar

The Italian based manufacturer, Ecostar, is synonymous with the most advanced technology in the mechanical separation of waste. Having undertaken over 20 years of research and development to create a range of equipment capable of screening all types of waste, they now boast over 500 machines delivered worldwide.

The Ecostar range includes a versatile mobile screener (Hextra), a compact modular static screener (Hexact) and an extractor hood that works in tandem with the Hexact to remove light materials and dust from the waste stream (Hextractor).

As their name suggests, Ecostar has a commitment to the environment. Their range of eco-friendly machinery uses their Dynamic Disc Screening patented technology to revolutionise the standards of screening equipment. Their screeners also benefit from a patented anti-wrapping technology that allows for continuous flow of material over the deck, without long fibrous waste becoming 'wrapped'.

Matpro Machinery, an established distributor of waste processing machinery, supply the UK and Irish markets with equipment from world renowned brands; Haas Recycling, Steelweld, Weima and Nihot.

With the addition of the Ecostar machinery to their offering, Matpro has been able to bolster their portfolio in the screener market.

Ben McQuaid, Director of Matpro Machinery

"We are excited to be able to announce the new partnership between Matpro Machinery and Ecostar. The Ecostar brand and their range of equipment is a great addition to our existing offering. The Ecostar range of screeners can satisfy a wide range of sizing requirements, as well as adding value in other areas such as energy consumption and footprint.

The versatility of the Ecostar machines is what really stood out to us, as many of our customers process various waste streams. This coupled with the eco-friendly and compact nature of the machines will make them very attractive to the market. We are not giving customers another option, we are giving them an alternative."

Filippo Cappozzo, Sales Director of Ecostar

"We are proud to announce this collaboration with Matpro, and we strongly believe they are the right partner for us. Ecostar is committed to producing innovative disc screen machines that, thanks to the revolutionary and patented Dynamic Disc Screening technology, ensure professional and economic benefits to customers.

It's crucial that local customers can rely on a distributor that can provide experienced technical support and after-sales service in a fast and reliable manner. The experience and professionalism that Matpro has developed over the years, working with important brands, represents the perfect match with our company values."

Matpro operate a comprehensive after sales service which includes an expert team based at their Cheshire HQ who can offer advice and remote troubleshooting, as well as a team of mobile service engineers who are strategically based around the country to respond to customer requirements as they arise.

For more information about Matpro and the Ecostar range, please visit <https://bit.ly/2RU5Oex>.



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Features for January / February 2019 edition:

- **CRUSHING & SCREENING** – screen media, wear parts, spare parts, static & mobile crushing & screening, grizzlies, feeders, stockpilers, magnets, H&S, lighting systems, bulk storage bays, dust suppression, weighbridges, belt weighing, contract crushing, plant hirers, rail services.

Editorial copy deadline 7th January 2019
Advert copy deadline 15th January 2019

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DP Cold Planing venture down new roads in the recycling market

DP Cold Planing Ltd is a family run road planing company that has maintained steady growth from 1985 to the present day. Situated in North Manchester they have depots in Lockerbie, Penrith and Warrington and are now one of the largest road planing companies in the UK. With an extensive fleet of machines, they are perfectly equipped to provide a professional service tailored to meet their clients' requirements.

The company pride themselves on selecting the best machines to provide efficient performance to the highest standards with environmental friendly attributes. With this at the foremost of the company's thinking, they ventured into the Mobile Crushing and Screening market to further process the material generated from their road planings.

Recycled Road Planings is a growing market in the UK. The aggregate produced by a cold milling machine which is used to remove the surface layer of a tarmac area, such as a road or footpath, is known as planings. This material is not suitable as a backfill for drainage trenches due to the high fines content and care must be taken when recycling them as older tarmac surfaces, which have been deep planed, may contain tars. The use of Road Planings is generally considered environmentally friendly as Bitumen is a natural substance. Using them also reduces pressure on quarried aggregate stocks. DP Cold Planing wanted to take their Road Planing to the next level.

DP Cold Planings MD Anthony Prescott takes up the story:

"We operate a fleet of Road Planers nationwide and we wanted to further process some of the material we generate. Our primary focus was on implementing a process where we could guarantee the quality, consistency and productions as to supply our customers an uncontaminated product. With this in mind it was important to make sure we selected the right equipment to produce and supply a high quality product to our customers. We looked at various machines in the market and discussed our requirements with some

suppliers but it was Taylor and Braithwaite who impressed us. Right from the beginning Jaime McGlenn (Crushing & Screening Sales Manager) has been working closely with us, advising us on how best to set up our process. After several meetings and discussions about other requirements we may have in the future, he suggested that having a separate Crusher and Screen working in a closed loop system would better guarantee the end product. It would give us greater production and also a flexibility to operate the machines independently when we needed to. A demonstration was setup at our site in Penrith to test the system. It was a very impressive demo and showcased the capabilities of the Maximus 522T Triple deck and the Rubble Master RM90GO!. The two machine setup performed exactly how we required it to and the fuel efficiency really stood out so the decision was simple really! We have been operating for nearly a year without issue and have been very Impressed with the all round service from Taylor and Braithwaite. With their excellent backup service, they are always on hand to support us when we need them."





Taylor & Braithwaite, based in Appleby in Cumbria, are dealers for Hyundai, Rubble Master Maximus & Pronar equipment in the North of England and Scotland. They have been continuously earning a very strong reputation in the UK market in the supply and servicing of Mobile Crushing & Screening equipment. Over the last 3 years they have seen a steady growth in sales of Maximus machines and in August 2017 they were appointed the dealer for Rubble Master for the North of England and Scotland. Their success in this ultra competitive crushing market coincides with the announcement earlier this year that Rubble Master had acquired a majority share in the Irish Screening manufacturer, Maximus. With both these brands now under one roof, so to speak, it has made business very straight forward for Taylor and Braithwaite from a supply point of view but importantly communication and strategy are unified.

Ian Burton, Director of Taylor & Braithwaite, states "The customers have definitely benefited by the move by RM to acquire Maximus. The structure and innovations which RM have applied to the Maximus portfolio will ensure continued growth and expansion which for us a company and for our customers is all positive."

This certainly proved the case for DP Cold Planing as they have been seeing the proof firsthand over the last 9 months. Jaime McGlenn, Sales Manager for Crushing & Screening at Taylor & Braithwaite comments:

"We had a number of meetings to confirm exactly what DP Cold Planing required in terms of flexibility of operation and after some very open discussions, we decided to demonstrate the RM90GO! and the Maximus 522T together. I was confident they would guarantee the quality they required. Both machines are leaders in their respective fields so putting them together is always a winning combination."

We already had RM90GO's working on Planing applications and C&D waste so we knew they would be the perfect choice. Another important point that came from our discussions with DP Cold Planing was the importance to them of the environmental aspects and as Rubble Master are also a very environmentally friendly thinking company, we were confident we had the best machines for their job."

The Maximus choice

Maximus Crushing & Screening Ltd is a leading manufacturer of high performance, high quality Crushing equipment & Screening equipment for a wide range of applications. Maximus Crushing & Screening has a portfolio that encompasses a variety of products essential for maximum productivity. The Maximus 522T Triple deck is among the leaders in its class. With the largest (single screen box) in the market, measuring 22ft x 5ft, it's a serious performer. The machine is built on an I beam philosophy which underlies all Maximus Screens making them very robust. The Maximus Screens are finished to the highest of standards. The 522T is offered in the UK market with a choice of power packs: the Cummings Tier 4 final with AdBlue or the Cat 3b option as standard. DP Cold Planings' choice of a Cat Tier 4 Final with AdBlue in the Maximus proves they remain true to their Enviro friendly principles.

The Rubble Master choice

RM crushers are the cost-effective, powerful solution for aggregate processing, offering multiple applications and excellent value retention. "No compromises" is the motto of the RM 90GO! Powerful, versatile and profitable, it transforms all mineral materials into high-quality cubic aggregate. It has an 860 x 650mm inlet, weighing 23.6 tons and boasting a very efficient diesel consumption. It has the ability to process up to 200 tonnes of material per hour. The machine is offered with a John Deere 6 Cylinder constant speed power pack running at 1800 RPM and operates a diesel over electric drive system making it very fuel efficient but also environmentally friendly. With all these features there's no doubt that it's the standout performer in the Compact Impactor Market worldwide.

Dave Cross from DP Cold Planing finished off by saying, "We carry out projects throughout the UK and emission levels are at the forefront of some of our clients' thinking. We believed that the Rubble Master Diesel over Electric drive system and the Maximus fitted with Cat Tier 4 Final with Adblue, the 1st of its kind in the UK, would put us in a strong position to carry out our work efficiently, reliably and in a way that we respect and protect the environment."

For more information visit www.t-and-b.co.uk



B&M's little green powerhouse

Long established recycling lead, waste management firm B&M Waste Services Ltd. take delivery of one of the first Sennebogen 817E material handlers in the U.K.



Established in 1954 by William Bagnall and Gerry Morris, B&M Waste Services Ltd. has become one of the U.K.'s leading business waste recycling companies thanks to their unique approach with the aim of diverting 100% of waste from landfill. With over 230 employees, B&M are able to manage customers' requirements from collection of waste through to a fully audited recycling service from sites throughout the U.K.

In addition to their headquarters in Bromborough they are also running from five locations strategically positioned around the country. With the ability to efficiently collect and process a wide range of Commercial and Industrial waste for clients using some of the latest technology, they can meet the toughest of demands from clients. Currently running over 70 waste collection wagons, B&M have the infrastructure required to deliver on these big promises.

Their focus on meeting client demands is highlighted by their latest fleet investment – a Sennebogen 817E material handler fitted with an NPK DG16 selector grab from Molson Green. The 817E is the smallest material handler in Sennebogen's popular 8 series machines, weighing in at 17,200Kg whilst boasting an impressive 8.2m reach to the dipper pin when fitted with the K8 ULM boom configuration. This configuration also packs a punch, with a load capacity of 2.8t at full extension.

The 817E is the only material handler in the 8 series that features a reduced tail swing making it a perfect fit for use indoors, or within a confined area such as a waste transfer shed. This compact working radius not only improves safety within the working area, but it also delivers a smooth and stable experience for operators thanks to features such as front and rear stabilisers keeping the machine controlled and balanced even when working cross-carriage and at full extension. This comfort and stability are also present with the operator makes use of the high-rise cab function. The cab can be elevated up, giving the operator an eye level of 5.2m which will allow for a clear view when performing tasks such as loading static plant or high sided containers. The clear benefit of the operator having this visibility is that containers can be loaded more accurately and any gaps in the load can be spotted and filled. This not only increased the volume of material in each load, but also decreases the amount of spillage when loading, all contributing to a more efficient process.





B&M chose to purchase the 817E because of these unique benefits. Working in a 3-sided shed, their 817E is working over 10 hours a day, 6 days a week as a primary sorting machine – picking out any large recyclable items, before loading their static plant for further separation. Because of the hard life a machine gets when working on a recycling application along with the high hours required each year, B&M did a huge amount of research into the maintenance requirements of the machines they initially evaluated.

Craig Wilson, B&M Operations Manager said; “We run a fast-paced business that is focused on keeping our customers’ needs fulfilled. Because of that, we can’t have machines offline for long as the waste soon builds up. When we looked at several different options when replacing our old excavator that pre-sorted and loaded the plant, we were not only focused on what machine could do the job, but also how reliable it would be and how well supported it would continue to be by the dealer”.

“Andy did a great job at putting our minds at ease on the build quality of Sennebogen machines, while also providing costs and quotations for both common wear parts and larger parts to prove Molson are very reasonable on the cost of parts and service. Subsequently, we had every confidence that we were not only buying a top-quality product, but that we would be supported all the way through its life by Molson”.



Andy Wilkinson, Molson Sales Manager said; “It has been great to work with Craig and all the team at B&M. I think they appreciated the time I took to come and listen and understand their business, what they needed and ultimately identifying the right product for their application. The 817E is a new machine in the range, but the rest of the Sennebogen 8 series has not only proved popular, but has also proved reliable. Because of this I had no hesitation in recommending the 817E as the perfect fit for B&M”.

Elite partnership tackles flood water

One of the UK's largest precast concrete firms has joined forces with a specialist hire company to create a long barrier wall to protect and defend a small village in Oxfordshire from flood water.

Telford based Elite Precast Concrete has supplied 55 of its Temporary Vertical Concrete Blocks (TVCBs) in partnership with Marwood Group Ltd, to create a lengthy 600metre wall in South Hinksey, Oxfordshire, as a proactive measure to protect the picturesque village from rising flood water.

Working in partnership with Marwood Group Ltd, a specialist non-mechanical hire company, Elite Precast Concrete was called upon by Lee Copping and the barriers were delivered and installed the following morning at the location almost two hours from its site in Telford, Shropshire.

Owen Batham, Sales and Marketing Director at Elite Precast Concrete, explained: "Recent flooding has caused massive devastation and disruption across the UK, and sandbags have been in extremely high demand to help people prevent any damage, or further damage, to their homes and properties. Our Temporary Vertical Concrete Barriers can be delivered and installed anywhere in the UK on next-day delivery, with no minimum order requirement, so they're a hugely useful product in the event of a natural disaster like this. Best of all, they can be uninstalled just as easily!

Over 80 soldiers, as well as personnel from Elite Precast Concrete and Marwood Group Ltd themselves, were on hand to help install the wall which was made from a range of Temporary Vertical Concrete Barriers and limited sandbags. As many as 18 out of the village's 80 houses were flooded last month and a speedy solution was needed.

"We'd urge anyone interested in finding out more about the TVCBs to get in touch 01952 588885, visit the Security Barriers tab on our home page www.eliteprecast.co.uk, or email sales@eliteprecast.co.uk," Owen concluded.

Lee Copping, Stock Controller of Marwood Group Ltd, commented: "We're thrilled to have worked in partnership with Elite Precast Concrete and were delighted to show our support by getting the blocks delivered and installed so quickly. Local residents were really pleased with the effectiveness of the wall and they have been eager to make the barriers a permanent fixture for each winter."

The TVCBs are cast from the firm's premium quality, high-strength (50N/mm²) concrete and measure 800mm in height, 450mm in width, 3,000mm in length and 2,500kg in weight. The barriers meet the full requirements of EN 1317 "Compliant Road Restraints Systems for Temporary Safety Barriers".

Founded in 2008 by a team with more than 40 years industry experience, Shropshire-based Elite Precast Concrete Limited is the UK market leader in manufacturing and supplying free standing interlocking concrete blocks. By adopting an innovative and forward-thinking approach, both in its production processes and sales and marketing strategy, the company's precast concrete products are now used by a wide range of UK and international clients including local authorities, recycling businesses, and waste management firms, to build durable waste storage bays. The blocks are also heavily used in industries such as outdoor hospitality, transport, and construction, where they are utilised as kentledge – a form of temporary counterweight – to hold scaffolding, security fencing, and marquees in place.



Powered by SAMSON - The new generation STORMAJOR®



The New Generation STORMAJOR® from SAMSON Materials Handling Ltd.

The new, updated design promises to improve handling and stability in the loading and reception of all kinds of bulk materials. The New Generation STORMAJOR® from SAMSON Materials Handling Ltd. is available in three models:

- STORMAJOR® 380 Series: for materials with a bulk density $\leq 1 \text{ t/m}^3$, such as cereals, fertilizer or alternative fuels
- STORMAJOR® 450 Series: for materials with bulk densities from 0.9 to 1.6 t/m^3 , such as additives, light minerals or fertilizer
- STORMAJOR® 800 Series: for materials with bulk densities from 1.5 to 2.1 t/m^3 , such as heavier minerals or ores, sand and gravel.

The new STORMAJOR® design is the result of decades of experience with the previous generations of these machines from SAMSON. It combines a mobile truck unloader with a moveable boom. This versatile unit allows the operators of ports, goods depots and stockpiles to receive bulk materials directly from trucks, front-end loaders or other loading equipment and to load them into vessels or railway wagons. As the new STORMAJOR® is fully mobile, it is also ideal for the efficient stockpiling of bulk materials.

In developing the machine, the engineers considered its suitability for dealing with the wide range of requirements in ports and terminals, as well as making it reliable and easy to maintain. The boom is attached below its centre of rotation, so that fines do not collect in the bottom of the machine. The feed section of the main chute is completely decoupled from

the conveying sections, which means that if necessary, bulk materials with particularly poor flow properties can be actively shaken to make the process more efficient. The standard angle of the transfer chute walls is already an effective measure to reduce the danger of bridging when handling different materials which do not flow well.

Each version of the STORMAJOR® has two travel and power options. A wheel-mounted STORMAJOR® will be towed, or a tracked machine will have its own drive. When moving the machine fully loaded, it can be equipped with additional outrigger support.

The new STORMAJOR® is offered with a choice of engine and drives. For example, the conveying sections can be either electrically or hydraulically driven. The self-driven versions can be equipped with diesel generator sets with various emission standards, up to TIR5. The main drive concept depends on off-site power supply or pumps and generators driven by the diesel generator sets. The "Power twin" sets new standards here with an additional distribution gear directly flanged on to the diesel generator set.

Thanks to a large range of extras, each STORMAJOR® can be further tailored to the specific requirements of the application. Examples of these enhancing features are additional transfer chute systems, various lining options for chutes and conveyor, dedusting solutions, additional enclosures for the conveying sections, operation and maintenance platforms, operator cabins and lighting packages.

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www.molsongroup.co.uk
E: info@molsongroup.co.uk

TEL: +44 (0) 1179 820 123 FAX: +44 (0) 8450 179516

WARRINGTON OFFICE:
MOLSON, ATHLONE ROAD,
WARRINGTON
WA2 8JJ