

## A ZERO WASTE SOLUTION FOR YOUR OPERATION

Smaller to medium sized crushing and recycling projects are just as important as large-scale applications. The **RubbleCrusher** range was created to offer those projects a zero waste solution.



**RUBBLECRUSHER**  
A McLanahan Company



# SOLID AS A **ROKBAK**



Carved by a lifetime of hard work, Rokbak articulated haulers are built to perform. Day after day. Decade after decade. From the heat of the desert to the cold of the arctic, you can rely on Rokbak.

# Why Rokbak?

## Read on to find out!

**Ever wondered what goes into launching a new brand? Jacqueline Reid, who led the team behind the award-winning Rokbak rebranding project, reflects on a successful first year and tells all about the renaming process - from how it came about to why it was needed.**



It's been just over a year since the strong, modern Rokbak brand entered the market – but it was about three years earlier that the team started working on the project. "In 2018, we did market research with current and previous customers, in markets where we were doing well and in those where we weren't so successful," says Jacqueline Reid, Global Director of Marketing Communications & Product Management. "We discovered that some legacy issues had left a few unpleasant memories with customers. They no longer thought of Terex Trucks as a brand for today, so it was clear we had to do something."



Jumping forward to the AED show in January 2022 – just over four months after the launch – and everything had changed. “That was a real highlight for us,” says Jacqueline. “Dealers were approaching us excitedly to represent Rokbak. For them to come to us and be so positive was a massive endorsement.”

Existing dealers had expressed similar sentiments right from the September 2021 brand launch, which produced lots of positive coverage in both the construction press and on social media. Pride and engagement rocketed back home in Motherwell, Scotland, too. “I think legacy problems had left some of our team feeling a bit flat,” explains Jacqueline. “One of the sales team hadn’t been 100% convinced on the rebrand but, after we launched, he could barely contain his excitement about all the emails and calls he was getting. He said, ‘I feel so proud standing behind the product!’ – that was amazing for me to hear. Another highlight was the positive feedback we received from dealers, customers, visitors and other manufacturers at Hillhead – everyone was saying that our haulers were the best-looking pieces of equipment on site!”

### **It’s what’s on the inside that counts too**

Of course, it takes much more than a new look to achieve this level of success. The rebrand followed huge investments and technological improvements after Volvo Construction Equipment’s (Volvo CE’s) acquisition in 2014.



In fact, reviving a Volvo Group legacy brand, or joining another brand’s portfolio, was an initial consideration when it came to renaming the company. But ultimately it was decided to use a new name, with something that would reflect the legacy of both companies being the initial angle. “We thought about our heritage, Volvo’s core values and reflecting what we stand for,” continues Jacqueline. “We came up with 250 potential names, many from Scottish Gaelic and Scandinavian sources to reflect our roots. We narrowed that down to 52 words, and then got a historian involved to provide more detail on each word before it came down to 12 and then the final five.

“We put an image board behind each name to see how we could make them work – for instance, SKOT, reflecting both the Scottish and Scandinavian elements, was all about black stallions. But there’s a company with a similar name, so we decided against it. Then there was STARK, like in the Iron Man films – that would have changed perceptions, but wouldn’t be ideal for search engine optimisation (SEO) purposes and, as an English word, it obviously has a meaning behind it.”





One of the other final options had no such disadvantages – ‘Rokbak’ came entirely free of legal baggage and was a completely clean slate in terms of SEO too. Workshopped alongside images of strength and true grit, such as rocks and strong backbone, the brand’s direction soon became clear for all to see.

“I was passionate about the name Rokbak – it was a strong, rugged word that represented our company,” says Jacqueline. “I could imagine how it would look and feel and what the merchandise would look like.”

### **A unique colour**

Finding a new colour scheme to reflect the new brand was another challenge. Many people appreciated the Terex Trucks white paintwork for its uniqueness in a sea of yellow and orange competition. The team were keen to maintain this differentiation by avoiding some of the industry standard colour palettes, originally looking at variations of greens, oranges and blues, before the Sand suggestion gained traction.

“We worked with Volvo’s product design team to come up with the Sand-colour,” says Jacqueline. “The first time I saw it on the iron I was blown away – it really came to life. It’s not a huge jump from white, but it’s distinctive, clean and modern, with great gloss levels.”

There was also a lot of administration work required for the rebrand. “We had to be mindful of legal requirements from IP to contracts, and carefully align timings – much of this was done while working from home due to Covid lockdowns,” continues Jacqueline.

Inevitably, the pandemic impacted the launch event too, which had to be held online. “With the launch being digital, I was worried people might not tune in,” admits Jacqueline. Those fears proved groundless, of course, with 600 invited guests in 22 countries watching the launch and feedback throughout the past 12 months providing more than enough proof that the years of research and testing were well worth the effort.

### **A strong, modern brand**

“People recognised we’d needed to embrace a strong, modern brand to reflect everything that had changed over the previous seven years, but our heritage is a massive element that we mustn’t lose,” concludes Jacqueline. “There’s a long line of experience within the team, and that reflects the huge amount of passion and pride that was at the heart of this. I am exceptionally proud of what we’ve achieved together.”

The rebranding team’s hard work was officially recognised by those outside of the construction equipment industry throughout the year. First came the CeeD Industry Awards in February, then the company took home five Marketing Society Star Awards – which included Jacqueline being named Inspirational Marketing Leader of the Year.



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# Welcome to issue 77

## Welcome to our last edition of 2022...

In this issue the team at Hub-4 present you with another bumper edition reporting on the latest news from the Recycling, Quarrying & Bulk Handling Industries, including a spotlight on **MADE IN N. IRELAND** which spotlights some of the leading companies and what they have achieved in the last two years.

Issue 78, our first of the New Year will contain a focus on **AGGREGATE CRUSHING & SCREENING** and a preview of all the companies attending the forthcoming **CONEXPO** show in Las Vegas.

## Onwards into 2023:

If you are starting to look at marketing in 2023 our new media file is now available on request from john@hub-4.com

Electronic advertising is also available on the website and on our weekly e-newsletter which is distributed to 8,000 readers which is on-line here: <https://hub-4.com/pages/newsletter>

Our increasingly popular social media packages are also available across all our Twitter [currently 9,000 followers], Facebook & LinkedIn pages all of which can be linked with electronic web and e-newsletter advertising – why not enquire about our extremely competitive packages.

Finally, our second edition of 2023 will focus on **Aggregate Washing & Screening**, and I welcome any editorial contributions for this issue.

**John Edwards**  
Editor

## JAN/FEB 2023

**AGGREGATE CRUSHING & SCREENING** – screens, screen media, wear parts, spare parts, static & mobile crushing & screening, grizzlies, feeders, stockpilers, magnets, contract crushing.

**CONEXPO CON/AGG CONEXPO PREVIEW**

**RECYCLING** - Open topics for this issue

**BULK HANDLING** - Open topics for this issue

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**Published six times a year.**

# McLanahan continues CMB's renowned service and support in Europe

**Since CMB International was established in 1996, its philosophy has been to provide effective on-site plant maintenance and to help customers get the best possible production from their plant. This carried through the evolution of its business to include CMB's own range of crushing and screening equipment designed and manufactured in the United Kingdom, as well as into CMB's compact crushing brand RubbleCrusher, which provides a zero-waste approach to the construction and demolition recycling industry.**

Now, as part of the McLanahan Family of Companies, that customer-driven focus has only increased, with unmatched service and support along with bespoke designs continuing to win sales for the company.

Some notable sales since McLanahan's acquisition of CMB was announced in May include screening equipment for various applications across the United Kingdom.

In Scotland, a major aggregate producer purchased a 2.2m x 4m double-deck primary Inclined Screen to replace a competitor's unit that had come to the end of its usable life. The Inclined Screen will be used to separate whinstone, a hard dark-colored rock, at 100mm and 45mm.

The producer already had two existing CMB vibratory screens, which have been working extremely well for them for the past two years. This positive experience with the CMB screens gave McLanahan an advantage during the sales process.

A unique feature of this screen is the condition monitoring function, which will allow the operator to check the bearings, vibration, temperature and speed of the screen. Monitoring the condition of the bearings will help the operator to identify any necessary repairs to avoid unexpected downtime.

While the condition monitoring is an optional feature, RubbleCrusher Business Line Director Liam Holland, who has been with CMB for several years, said it is something all prospective screen buyers should consider adding to their screens.

"Anyone can monitor it," Holland said. "You can sort it at home and check what it's doing, and you can send updates."

Another aggregate producer purchased a slightly smaller screen for processing asphalt in Cheshire, England. The 1.8m x 4m double-deck Inclined Screen will be used to make four products: 20-14mm, 10mm, 6mm and dust.

Again, CMB's prior relationship with the producer and bespoke equipment solutions brought back repeat business for McLanahan. For this project, McLanahan had to design the screen to fit into the customer's existing space, as it was replacing a competitor's existing screening unit. The customer also wanted the drive motor in a different orientation to allow more room for maintenance activities.

Additionally, McLanahan had to modify the screen design to accept a circulating oil system used on the existing screen for lubricating the bearings. The plant processes a percentage of recycled asphalt pavement (RAP) with its virgin aggregate, which requires the RAP to be superheated ahead of reprocessing. The temperature of the RAP increases the temperature of the working environment of the screen, so McLanahan needed to be able to accommodate the cooling system in its design.





"We work with the customers to give them a solution that they want, providing it's feasible," Holland explained. "It's not always easy, but if you're willing to work with them, go the extra yard for them and put the effort in, I think it does prove beneficial."

A third screen destined for western England also highlights McLanahan's versatility with the CMB product line. This four-deck horizontal finishing screen is designed to wash dust from the aggregate material, which will be used for surface dressing. The top deck removes oversize, the second deck washes 10mm aggregate, the third deck washes 6mm aggregate and the bottom deck prevents too many fines from ending up in the lagoon.

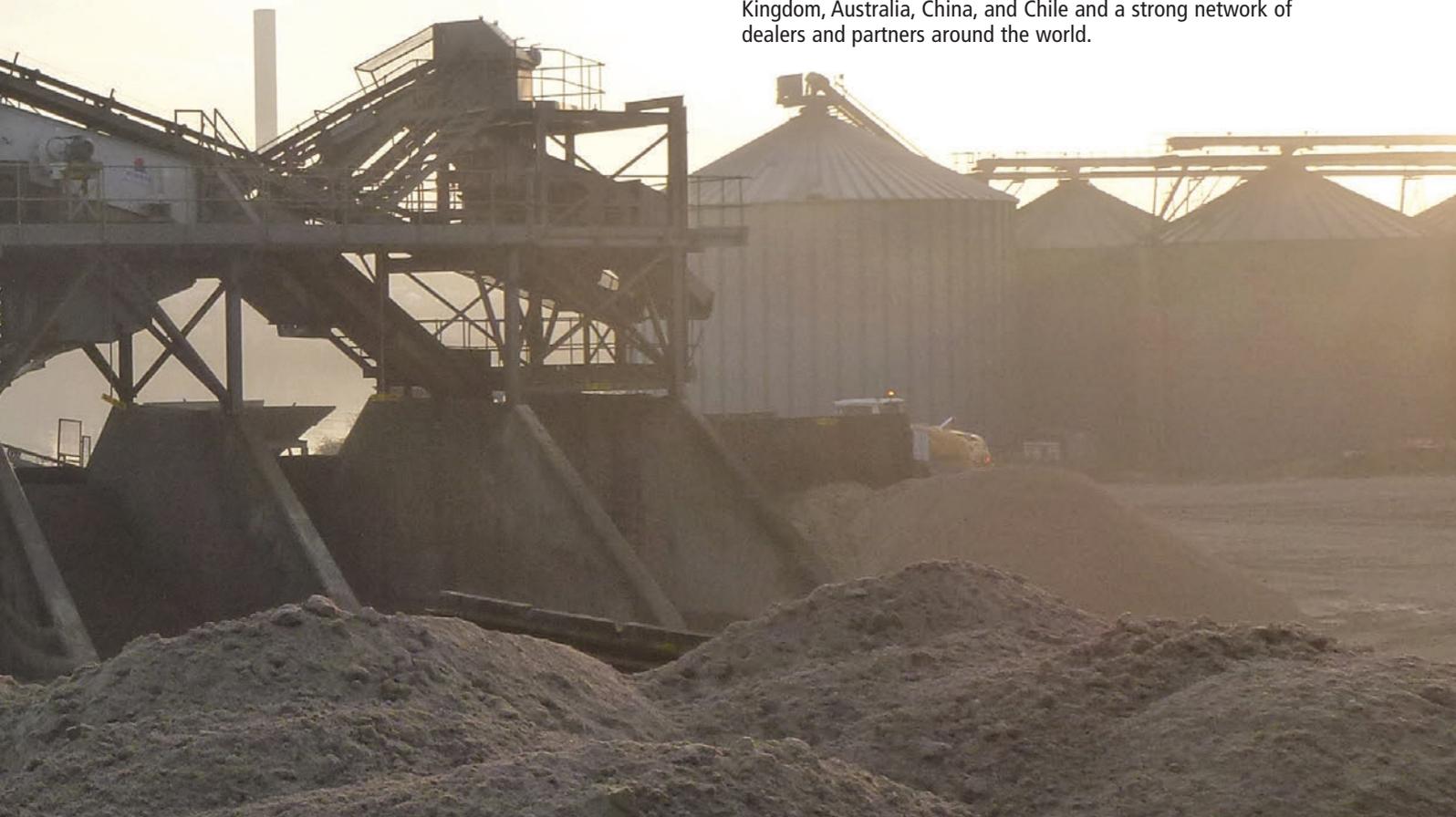
Further proving CMB's commitment to meet or exceed the requirements or expectations of its customers — a goal that aligns perfectly with McLanahan's own ethos, this screen is a repeat order from a repeat customer. The screen will be replacing an old CMB screen that has been dutifully operating at the customer's location for more than a decade.

The original screen had to fit into a compact area, a requirement that needed to be repeated for the new screen. This meant that the CMB team had to get creative with the placement of the washing feature, both then and now.

"Rather than having independent spray bars, we utilized the cross beams to act as the spray bar," explained Holland.

The original screen has performed well for the customer over the years, hence the repeat order. This is a common theme among CMB customers, who return to the company for their aggregate crushing and screening needs based on a good experience with the equipment and the team. As part of McLanahan, CMB's renowned service and support will continue, backed by McLanahan's 187 years of process knowledge and field-proven experience.

Headquartered in Hollidaysburg, Pa., USA, McLanahan is a global leader of processing solutions for a variety of materials handling industries. With the addition of the CMB crushers and screens to its existing product line, along with the combined resources, McLanahan is in a position to better serve its growing customer base across Europe. The company continues to provide unmatched local service and support for the lifetime of its equipment, with offices in the United Kingdom, Australia, China, and Chile and a strong network of dealers and partners around the world.



# Warwick Ward look to the future



**Warwick Ward (machinery) Ltd. was founded in 1970 by Mr Warwick Ward and has become one of the largest stockists and suppliers of new & used earthmoving and waste recycling equipment, and spare parts in Europe.**

As the largest independent CASE dealer in Europe and certified to ISO 9001:2015, the company offers an outstanding, comprehensive, and professional service with competitive pricing to cover all equipment needs. A strong belief of the company is that both customer service and technical back up are paramount to the success of any dealer/customer relationship and as such a specialist sales team can facilitate whatever the requirements are.

Over the past 10 years, Warwick Ward has continued to expand the business by adding premium complimentary brands such as TEREX Ecotec, KEESTRACK crushing and screening equipment and more recently TEREX Recycling Systems to their portfolio of products.

The company now have depots in the North, Midlands, and the South where resolute service teams can provide an outstanding aftersales support on all earthmoving and recycling equipment across the whole of England.

An extensive hire fleet for both long-and short-term hires, with the support of our fully equipped workshop and nationwide service team and transport facility, ensures the provision of a comprehensive service to all their customers in the UK offering a 'one stop shop' for all earthmoving and recycling equipment needs.



Recently the company opened a "Centre of Excellence" at new premises in Barnsley which will house the company's bespoke training academy and develop future employees. The academy will provide fantastic opportunities for both apprentices and qualified plant fitters.

So, to get a thorough understanding of how Warwick Ward have progressed the HUB-4 team went over to the new centre to meet Ashley Ward who is Joint MD.

#### **Growth Strategy:**

He explained the philosophy behind the company's growth strategy. "Business up to the start of covid was particularly good but like the majority of companies in our sector, sales of high value cap-ex equipment came to a grinding halt



overnight once Covid restrictions were imposed, albeit service and parts sales crucially continued. When we realised that it may be sometime before a return to normal, we decided to gamble on the recovery being more of a sharp 'V' shape and that stock availability would be critical to our ongoing success. With that strategy in mind, we were bold in difficult circumstances in placing substantial forward orders with our brands. Fortunately, that vision very much played out as restrictions lifted as in the end the demand was such that we

needed even more stock than we had ordered! We calculated high demand as our customers would need to freshen and replace their fleets having not done so for the best part of a year."

Warwick Ward have always had a strong position in servicing the waste recycling sector and during Covid continued to also see a strong demand for the hire of Case, Terex and Keestrack machines throughout that period, so for them there was never a slow-down on that side of their business. As demand then increased it was more a question of waiting for the OEMs to catch up!

Ashley, continued, "Like everyone, we did not have a crystal ball in the UK as regards the post-Covid world and although we appeared to be performing better than Europe, we just needed certainty and a plan. Our customer base across our existing geographical areas was thriving and there was no negativity in the market, which enabled us to concentrate on part of our growth strategy which is based on expanding the business into London and the Southeast. As a northern business we needed to get a foothold in the south and we knew that the Case and Keestrack brands were the vehicles to enable us to fulfil this. It was apparent that the expansion of our CASE territory was key to our strategic growth plan and the opportunity to take on the southeast was fantastic for us as this is where we could see a large proportion of our growth coming from.

"When we took on the additional territory for Case it was just pre-covid so although we knew it was an exciting opportunity, we are only in the last 12 months really seeing the rewards from the significant investment in our new depot in Harlow. Scott Bunting who has been with the business 12 years, agreed to relocate from our head office in Barnsley to head up the southern Case depot based in the south - a great demonstration of both his and our own commitment to the success of the project. We firmly believe there is a huge amount of potential over the next 5-10 years, now we have this foothold in the South."



## Building an equipment portfolio:

Ashley outlined the strategy, "From an early stage we decided to build our equipment portfolio and create a 'one stop shop' for all the industry sectors we represent. We only want to be associated with quality world renowned brands so with the CASE CE and TEREX ECOTEC brands well positioned and established, we then partnered with KEESTRACK to represent their crushing and screening equipment nationally. It is an incredibly exciting venture for us as the brand has enormous growth potential and there are lots of opportunities for us.



## Where we are now:

Over the last six years the Warwick Ward expansion has been rapid, with 4 depots and one to be opened soon in the North-East, added to the recent opening of the new Centre of Excellence this year. The swift progress has included significant enhancements at board level with a new Operations Director and Financial Director appointed to work alongside current Sales Director Simon Causier.

Ashley, expanded, "We opened the new Harlow depot and then followed in Barnsley with the Centre of Excellence. It has been a sustainable 'future proof' investment in the infrastructure within the business to ensure we can deliver what we need to deliver.

"The new depot in the North-East is opening to back up the sales process for Case and Keestrack. We continually maintain our service presence in the market with numbers of support

staff increasing every year. We currently have 25 service engineers in the UK and that number will grow. There is a huge amount of investment in the business with everything been ploughed back in to take us to the next level.

"Recruitment remains a challenge, good people are always hard to find. However, we are extremely focused on generating the next generation from within. So, we have apprenticeship academy programmes that have been running 4-5 years in every part of the business, which is reaping the rewards by installing the values that we have into the next generation. We need to open the eyes of the young people of the UK to look at the fantastic opportunities that our industry sectors can offer.

"We are very proud where we have come from and of where we are now – a £60+ million business employing 120 people."

## Investment in people:

Investment in people is a huge part of the Warwick Ward strategy as Matthew Godhard who is Operations Director explained.

"It is all about the future and it is one of the reasons we have opened the new Centre of Excellence which is the next step in our evolution. We need to invest in people and this site enables us to deliver the product to the customer and also how the customer perceives us. The other element is being able to deliver the training aspect. Take for instance our head-office, we have been there numerous years and it is a great site, but we have never had a facility where we could develop structured training programmes.

"This new Centre of excellence allows us to train our current team and apprentices onsite, as well as the regular visits to the Case, Keestrack and Terex factories for continuous product training. Covid did change our approach to training, and we had to embrace on-line training. The improvement we saw in the quality and engagement of on-line training I believe was quite significant in how we got the message across - this definitely did help! Along with this on-line and factory training, now, with our depots and this centre, we have the right training mix to deliver the future.





Product training is vitally important but its not just about the technical aspects, we need to understand how we work together, understand how we present ourselves together, and how we can continually improve. Constant team building is the essence with the use of Microsoft Teams meetings becoming a daily part of this to enable us to move forward.

“The challenge though is finding good people to support our growth. We have gone from a small business into this year with a £60+ million turnover – it is a massive figure. We do

not lose staff but as we grow, we need more great people to join the strong long-serving team we have; some of the team have been with us for over 30 years. I have only been here two years and I came to work in a family business with a great bunch of people with a great ethos. We are a big business which still maintains the same original ethos and family values.

“It is all about satisfying a demand, we can sell a machine, but it is imperative that we maintain the level of aftersales, so the object of this new facility is to bring apprentices into the business. We now have a considerable number of apprentices to train alongside our ongoing programme of training for all our team.

“We were promised by the Mayor and the Council lots of support and I am pleased to say that this has come through and they are planning a program for the apprentices to be trained locally along with at the Academy in York on a residential course for heavy plant.

“We are overcoming a specific challenge in that we are changing people’s perception of the business through our forward-looking investment and built upon our highly trained staff.”

## CASE Construction

CASE Construction is a leading global brand with more than 175-years’ experience and a long-standing and formidable reputation for manufacturing construction equipment with outstanding quality and built-in reliability. CASE Construction has an extensive history of producing equipment to service many industry sectors with wide and varied customer requirements.

Warwick Ward became a fully authorised CASE construction equipment dealer in 2006. Within a short space of time, they established themselves as Europe’s largest independent CASE construction equipment dealer, offering a full range of new CASE equipment, products, and services.

A wide range of CASE construction machines are available for purchase, operating lease, or short, medium & long-term hire.

### The range includes:

- Wheel Loaders
- Compact Wheel Loaders
- Crawler Excavators
- Midi Excavators
- Mini Excavators
- Short Radius Excavator
- Special Application machines
- Backhoe Loaders
- Skid Steer Loaders
- Compact Track Loaders
- Graders
- Telescopic Loaders

## Terex Ecotec & Terex Recycling Systems

Terex Ecotec is an industry leader in designing and manufacturing of wood processing, biomass, and recycling equipment. Terex Ecotec offers a range of innovative machines, including electric models, which provide efficient production, low operational costs, and ease of maintenance for each customer.

In 2016, Warwick Ward acquired the TEREX Ecotec franchise, and are now a UK distributor for the full TEREX Recycling Systems range. This has further strengthened the company’s position within the Waste Sector, and they have established a very strong working relationship with many of the UK’s largest waste recycling companies.

### The range includes:

- Slow, medium & high-speed waste shredders
- Waste Handlers
- Trommel Screens
- Recycling Screens
- Tracked Conveyors
- Metal Separators
- Modular Static Recycling Plants

## Keestrack Crushing & Screening

Keestrack are dedicated to delivering best-in-class results for all our customers, so they design every Keestrack product from the ground up to be highly efficient and cost-effective, with many individual innovations coming together to set Keestrack apart.

This commitment to consistent improvement and the highest standard of engineering gives their machines the edge, with the capacity to process more tonnes per hour than other machines on the market.

With a focus on sustainability at the core of the business, Keestrack have already electrified many models introducing electric drive systems (e-drive) back in 2012 and now produce ZERO-drive machines without any combustion engines on board.

### The range includes:

- Cone crushers
- Impact Crushers
- Jaw Crushers
- Classifier Screens
- Scalper Screens
- Dust Suppression
- Stackers



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# A truck for all seasons

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The verdict is in and it's unanimous...  
Liebherr's articulated dumptruck is a winner.

## LIEBHERR

### TA 230 Dumptrucks

It's just over a year since the first TA 230 trucks were delivered in the UK and since then they have been impressing owners at sites across the country on applications ranging from forestry road construction in the Scottish Highlands to site clearance for the extension of Liebherr's HQ in Biggleswade.

Michael Atkinson helped lead the truck's introduction to these shores and he says a vital first step in monitoring market reaction to new equipment is to put potential customers in the cab. 'When a new product is introduced to the market it is vitally important to capture feedback. Customers need to get in the seat, so our demonstration programme for the truck was crucial. The response and testimonies from those demonstrations were overwhelmingly positive and consistent,' says Atkinson, ADT and Wheel Loader Product Specialist at Liebherr.

Investment in expensive capital equipment must be justified on several levels – by the purchasing department, workshop manager, transport organiser and, more often these days, by the person entrusted to operate the machine on a daily basis. And as far as operators are concerned, the TA 230 has hit the target on controls, comfort and safety as they guide the vehicle and its 28-tonne payload across demanding terrain.

'Visibility from the operator seat has been hailed as unrivalled,' explains Atkinson. 'This is largely due to mounting the Liebherr Stage V D956 engine on a 7° incline under a streamlined engine hood. The inclined bonnet of the TA 230 allows optimal close-range visibility, even without mirrors. Generous glass and the lack of struts provide an unhindered view for the operator, further improving safety on site.'



As we enter the season of gloomy nights and mornings, the truck's comprehensive light package is proving its worth, illuminating travel routes and working areas. 'The operator has optimal visibility in all directions, even at night, and that means increased safety for the operator and other personnel on site,' Atkinson points out.

Top marks have also been awarded for ride comfort, where the driving experience is aided by a hydro-pneumatic spring cylinder on the front axle, layered springs on the rear axle and a "premium" suspension seat. Speed-sensitive steering allows for easy and precise manoeuvring, even at higher speeds, and fewer steering corrections are required during cornering. Rounding off the cab's creature comforts are generous storage space, automatic air conditioning and a cooler box as standard.

Atkinson says the TA 230's stopping ability has been highlighted by many operators, grateful for the electronically controlled continuous braking system consisting of a powerful engine brake and

# On the dot

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hydro-dynamic retarder. 'The automatic retarder setting prevents unnecessary brake wear caused by operating errors. Easy retarder control via seven detent positions on the right-hand steering-column switch to match any type of operation,' he adds.

Pulling power is fundamental for articulated dumptrucks and the phrase "it pulls like a train" has been used by several drivers. That's thanks to the new Stage V Liebherr D956 6-cylinder diesel that delivers 360hp and drives through an automatic powershift transmission with a maximum forward speed of 57km/h, making it one of the fastest trucks of its size on the market. To cope with that speed, the three axles have load-switchable diff locks and four-point hydro-pneumatic suspension to smooth out any bumps in the road.

Other highlights of the generous 'standard' specification are an integrated weighing unit, extended LED package, automatic greasing including tailgate, ascent/descent lighting, dump body control, air-cushioned heated seat and electro-hydraulic opening of the bonnet.

Soon after its launch, the TA 230 was awarded a Red Dot, an international accolade that acknowledges outstanding design.

Judges said...

“

**Power and agility are reflected in every aspect of its angular, dynamic lines. The development focused in particular on improving visibility from the cab and illuminating the truck's travel and working area, but also on ensuring a smooth handling of the vehicle.”**



# Blue Machinery expand Terex Washing Systems agreement across the UK



**Blue Machinery (Southern) and Blue Machinery (Central) will join Blue Machinery (Scotland) in distributing Terex Washing Systems standard products within their territories, in parallel with Terex Washing Systems 'Factory Direct Selling' approach for 'project' sales. This will provide the customer base with a best of both worlds approach to their sand and aggregate processing equipment needs.**



Terex Washing Systems (TWS) is the premier provider of advanced plant solutions for material and mineral washing needs in aggregates, recycling, industrial sands and mining. With more than half a century of washing experience already under its belt and a proactive Research & Development team that never stands still, TWS have a proud history and heritage.

Since Blue Scotland were appointed as dealers for the brand back in 2012, they have built a wealth of experience and expertise in the installation of wash plants, supplying solutions to customers including; Central Demolition, Miller Plant, Dolan Skips and many more.

With Blue Southern and Blue Central joining Blue Scotland as a distributor, Blue will now be able to supply TWS standard equipment across England, Scotland and Wales. The agreement means that specialist 'project sales for full solutions will be provided on a 'Factory Direct' basis to the

customer from Terex Washing Systems, ensuring sector leading applications knowledge is available directly to assist customers in technology selection and long-term plant efficiency. Sales of standard product within the TWS range will be supplied through Blue Machinery.

Blue Machinery will offer nationwide support for the TWS brand, with their comprehensive network of field based serviced engineers working across the various Blue regional businesses. Blue Spares will also stock genuine, OEM TWS parts in both their Warrington and Stirling depots, meaning that customers can benefit from same day/next day delivery to keep them up and running.

Commenting on the Blue partnership, Barry McMenemy, Terex Washing Systems Director, said: "We are delighted to welcome Blue Machinery (Southern) and Blue Machinery (Central) on board to supply our standard range of equipment throughout the UK. This partnership provides enhanced levels of sales, service and support to our valued customers to complement our existing 'Factory Direct' sales, service and support in the UK. The cornerstone of our success is our strong customer and dealer relations and how we work directly with them to bring mutual success. Alongside our Factory Direct UK sales program providing tailored factory solutions, as announced at Hillhead, the partnership enhances our product distribution and support in the UK Market".

Terry Hughes, Managing Director at Blue Southern, said: "We have always taken great pride in providing our customers with the latest cutting-edge technologies, and best practice service and technical support to back it up. Our primary focus is to help our customers develop their business efficiency to become as profitable as is possible. The addition of Terex Washing Systems to our portfolio allows us to be better placed to continue to meet our customers' ever growing commercial and technical needs. Terex Washing Systems' broad product offering, paired with our industry knowledge and market leading aftercare offerings, will give us and our customer base significant business opportunities. These are exciting times, and we look forward to the future with great optimism and enthusiasm".

# 150 Jobs up for grabs as JCB Apprentice and Graduate Scheme opens to applicants

**More than 150 new jobs for apprentices and graduates are up for grabs at JCB as the company today launches its application process for its hugely successful Early Careers Programme.**

The Staffordshire digger giant has from the 1st November begun inviting applications for its 2023 intake, with competition expected to be fierce after more than 2,000 people applied for places last year.

Opportunities for 2023 include graduate careers in Design and Development, Future Technologies, Electrical and Controls, Software Development and Sales and Marketing. There will also be degree apprenticeships in Business and Engineering alongside Level 3 apprenticeships in areas such as Manufacturing Engineering, Purchasing, Mechatronics and business-wide technician opportunities. In addition, Level 2 assembly and welding apprenticeships will be offered for recruits from age 16+, while the company will be partnering with The JCB Academy to offer new T-Level qualifications.

Group HR Director Max Jeffery said: "JCB is one of the world's largest construction and agricultural machinery manufacturers and we offer huge scope to develop very rewarding careers.

JCB has ambitious growth plans over the next five years and nurturing new talent will be a key to success."

JCB has invested more than £8 million in developing its Early Careers Programme, and since 2008 more than 1,300 people have joined the company through the scheme. Among them are Hannah Hurdley, who joined as a Business Degree Apprentice aged 18 after her A levels. She completed a degree in Professional Practice in Management and, immediately after coming off scheme, secured a job as JCB Government and Defence Contracts Manager.

Former Derby High School student Hannah, of Burton-on-Trent, said: "I am still only 22 and I have a very interesting and responsible job with great career prospects. What is amazing is that I continue to be supported by some of the most experienced senior people at JCB as my career develops. To anyone thinking of applying for the 2023 apprentice and graduate intake I would say one thing: go for it. It is a decision I have never regretted."

Anyone interested in applying for the JCB Early Careers Programme should visit [earlycareers.jcb.com](http://earlycareers.jcb.com)



# McCloskey unveils newest Jaw Crusher designed for versatility and productivity

**Agile and powerful J4 boasts innovative design features and new options**

McCloskey International has unveiled the new J4 jaw crusher, boasting powerful new features for hard rock applications.

The J4 builds on the robust features of the existing design, while adding new productivity with an exciting line-up of features and options aimed at boosting productivity and offering enhanced durability across applications.

Designed to withstand the toughest conditions worldwide, the J4 delivers high production due to its innovative jaw chamber design and enhanced material flow. The large 1060mm x

700mm (42" x 28") jaw opening accommodates large feed sizes, contributing to higher production in material processing.

The material path is enhanced with the 1064mm x 4247mm (41.9" x 167.2") grizzly pan feeder under the hopper that allows for better sizing of material with a variety of mesh options. Options of either a short pan feeder to suit the pre-screen or a double deck grizzly pre-screen are available, ensuring suitability and better sizing of material based on the required end product.





The J4 leads its class in size and number of decks offering a choice of either a two deck or one and a half deck system. The two deck delivers an extra product spec over the mid-size product conveyor. The J4 is the only jaw crusher that offers oversize recirculation for a higher end product specification.

The J4 also delivers industry-leading stockpiling, with wide main and side conveyors for enhanced material flow. The angle adjustable 1200mm (48") wide ToughFlex® main conveyor boasts a 3.912m (12' x 10") high stockpile, and with quick release and ground level access, with the belt being easy to maintain and service. ToughFlex is constructed with a special weave of 2 fabric plies and an additional binder warp (without the need for steel wire) resulting in reduced belt weight. The plies are reinforced to resist puncturing and are protected with heavy duty wear resistant top and bottom covers. At the end of its lifespan, ToughFlex belts can be easily recycled unlike belts reinforced with a metal ply.

While a side conveyor remains an option for many jaw crushers in its class, the J4's integral folding conveyor is standard and has an 650mm (26") adjustable speed belt fueling a stockpile height of 3.44m (11' x 3.6"). In addition, the recirculation conveyor can be rotated 90 degrees to be used as a stockpiling conveyor.

McCloskey engineers have designed the J4 to meet the evolving requirements of today's projects and operations. Despite the position of the J4 as a powerhouse, portability has not been compromised. Mobility on-site and between sites

continues to be a feature with remote control tracks to easily move and position the crusher and maximize the efficiency of any project site.

As with all McCloskey equipment, safety is paramount, and the J4 is equipped with a number of features to ensure the workplace and the operator are secure. Engine safety shutdown systems, start-up alarms, full safety guarding, external maintenance access and a tagout capability on the isolator all contribute to the safe operation and maintenance of the equipment. Ground level access also promotes safety, and allows for quick service and maintenance, reducing the downtime for the operation.

"The J4 continues the momentum for our jaw crushing product range, as we continue to develop new products that meet the evolving needs of our customers across industries," said Toni Laaksonen, Senior Vice President, McCloskey International. "We have always designed our equipment to ensure it contributes to the productivity and business success of these operations. As a company that is involved in the handling and processing of the earth's resources, we also have our sights set on sustainability. Our next commitment to an environmentally responsible strategy will be the introduction of our electric crushers, scheduled to be available in 2023."

The crushers are suited particularly to aggregates, construction and demolition recycling, and site preparation.

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# Blue Machinery appointed as new dealers for Morbark

**Blue Machinery are delighted to announce that they have been appointed as the exclusive distributors for the Morbark brand across the UK and Ireland. The new agreement means that Blue Scotland, Blue Central, Blue Southern and Blue Ireland will now supply Morbark's industrial product range within the regions in which they operate.**

Based out of Winn, Michigan, Morbark LLC has been innovating and manufacturing durable, high-performance equipment since 1957. With more than 60 years of ideas, invention, and phenomenal growth, Morbark is now widely recognised as the number one brand globally.

Morbark's industrial range includes a wide collection of premium horizontal grinders and chippers which complement Blue Machinery's current portfolio of world leading brands, including Doppstadt and Fuchs – A Terex Brand. These new product lines will help Blue Machinery to bolster their offering to customers within existing recycling markets, who require machines with higher horsepower and throughput, whilst also enabling the planned expansion into the forestry sector. As well as being able to supply Morbark's range of mobile machines, Blue Machinery will also be able to offer static, electric grinders and chippers.

Blue Spares now become the authorised supplier of genuine OEM parts across the UK and Ireland for the full Morbark industrial range. They have parts stocked, ready to service existing Morbark customers from both their Warrington and Stirling depots, which collectively hold an inventory of over £5million. Their dedicated team of parts experts offer customers with 24/7, 365 availability to keep their machines up and running.

Blue Machinery acquired the dealership from previous distributors Steel Viper and are working closely with them throughout the transition period. The teams from sales, service and spare parts are all undergoing a training programme on the Morbark product range. Director at Steel Viper, David Harper, comments: "It's been a pleasure supplying the world leading Morbark brand over the last 6 years, however we recognise that Blue Machinery provide an opportunity to take the brand to the next level within the market. Our existing

Morbark customers will benefit significantly from Blue Machinery's localised service, sales and spare parts. I would like to thank all our customers for their continued business and support over the years, and we wish Blue Machinery every success for the future".

Managing Director at Blue Scotland, Austin Carey, comments: "We are delighted to have concluded commercial terms with David Harper at Steel Viper, to become the new dealers for Morbark. In October Blue Machinery's regional directors had an excellent visit to the very impressive 1,000,000 square foot Morbark facilities in Michigan. We met the Morbark senior Management team and had time discuss where the opportunities exist in UK & Irish markets. Our strategy is to expand our existing customer base by entering the forestry and sawmill markets, where we will be adding additional products to complement the Morbark range. Our six regional depots provide a national footprint, meaning that we are well positioned to stock a large inventory of machines and spare parts to give maximum uptime to our customers. We have an excellent opportunity to heavily penetrate the market, and we plan to allocate extensive resources towards establishing the brand and fulfilling its potential in the UK and Ireland. We are excited to meet all the existing Morbark customers and welcome some new ones along our journey."

Michael Stanton, VP of Sales and Marketing at Morbark, adds: "The addition of The Blue Group, which has a long history of offering premium support for both sales and aftermarket, aligns with our desire to be partnered with the very best organisations globally. We look forward to working closely with Blue Group, who will provide the opportunity to grow our brand across the UK and Ireland".

Our four regional business are now taking orders for 2023. We currently have a machine in the UK and available for demonstration, so be sure to get in touch with your Blue representative if you're interested.

Blue Scotland: 01786 469444 Blue Central: 01606 261262  
Blue Southern: 01275 285285 Blue Ireland: +353 14319839

For any spare part requirements, contact Blue Spares on 0345 130 0669



# KKB Group inaugurates Volvo hybrid excavator fleet

**Demonstrating its commitment to CO2 reduction, KKB Group invited customers and representatives from the Lower Thames Crossing management team to witness the launch of its new fleet of Volvo hybrid excavators from SMT GB and learn more about the fuel efficiency technology behind them.**

On 27th October, KKB Group hosted an event for customers and other stakeholders at its depot in Hoo, Kent, to celebrate the inauguration of 10 new Volvo hybrid excavators from SMT GB.

Like Volvo and SMT GB, sustainability is a core value for KKB, and the contractor is continuously looking for new ways to limit environmental impact and establish itself as a leader in sustainable construction.

KKB's three Volvo EC300E Hybrid and seven Volvo EC350E Hybrid excavators are the first in a new fleet of alternatively powered construction equipment that will enable the contractor to significantly reduce greenhouse gases from its operations.

## **Higher fuel efficiency, lower carbon emissions**

By harvesting free energy from the downward motion of the boom, the hybrid excavators deliver a 17% fuel efficiency improvement over a fully diesel powered equivalent, which translates to up to 12% lower carbon emissions from the EC300E Hybrid and up to 15% from the EC350E Hybrid.

For KKB, this will generate fuel savings of around 11,000 litres and prevent three tonnes of CO2 from being emitted into the atmosphere per 1,000 operating hours.

"We strive to improve the environmental performance of the regeneration and built environment process for each and every one of our clients – and investing in these new Volvo hybrid excavators from SMT GB will make a big difference to the carbon footprint of the projects we work on," said KKB's Managing Director Del Bhanot.

## **Part of the bidding process**

KKB was keen to showcase the new hybrid excavators to its customers, who are increasingly considering environmental impact in the tender process, demonstrating both its commitment to decarbonisation and the reliability of the Volvo hybrid technology.

Bemo Tunnelling, for example, is currently considering KKB as a partner for a major civil engineer project and looks for suppliers that can help meet its sustainability goals. Bemo's Commercial Manager Daniel Curtis said: "Environmental performance is majorly important to us. The schemes we are bidding for have got to be as close to net zero as possible, and we can't achieve what we need without our partners and their technology. Seeing the investment KKB has made shows how serious they are about the future we need to deliver."

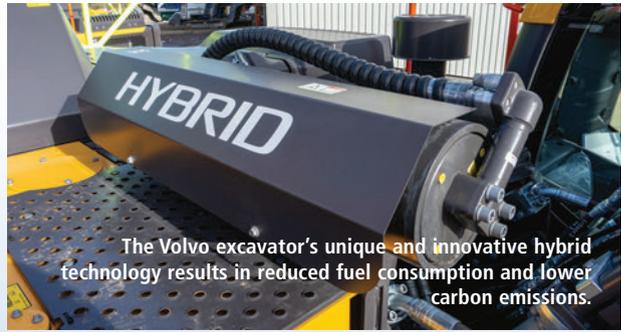


The teams from KKB Group and SMT GB celebrate the culmination of a successful event.





Guests at the event look on as one of KKB's new hybrid excavators is shown in action.



The Volvo excavator's unique and innovative hybrid technology results in reduced fuel consumption and lower carbon emissions.

## Simple and reliable hydraulic hybrid technology

Representatives from SMT GB talked KKB's customers through the unique hydraulic hybrid solution, where stored hydraulic oil in the accumulators, coming from the boom down motion, drives an assist hydraulic motor to support the hydraulic pump and engine.

This innovative technology enables the hybrid models to offer the same levels of controllability and performance as standard machines, including being able to work in ECO mode and Hybrid mode simultaneously, with the benefits of lower fuel consumption and lower carbon emissions.

"Compared to some competitor electric hybrid excavators, it's a simple and reliable hybrid solution. Because it consists of just a handful of add-on components, it will be easy to maintain and repair, and ensure high uptime, helping us keep to production targets or project deadlines," explained Craig Hore, Plant Director at KKB.

After the presentations, there was excitement in the air as the guests watched one of KKB's new hybrid excavators spring into action.

Shane Trim, Contracts Manager for Soilfix, which has been using KKB as its main plant and equipment supplier for remediation and earthworks projects for a decade, was thoroughly impressed: "I think it is fantastic that KKB is making these investments and the Volvo hybrid technology is great. I love the innovation. It shows that Volvo is looking into the future and is making gradual steps toward where we need to be. I can see a good future in it," he said.

Steve Wallis, Area Operations Manager at Tarmac, which has also worked with KKB long term, especially in asphalt recycling, was equally as enthusiastic: "It was great to see some of the kit that is coming to my sites and understand the technology, which is very impressive. I'm looking forward to seeing them working. It's early days yet but we are on a journey together," he said.

## Delivering net zero together

Overall, the event was an excellent opportunity for KKB to strengthen relations with its customers, demonstrate its commitment to helping them achieve their sustainability goals, and show off its ground-breaking new machinery.

Dale Nicoll, Area Sales Manager at SMT GB, concluded: "It was a fantastic event that really communicated KKB's energy and commitment to environmental performance. I have worked personally with Del and KKB's Chairman Colin Basi for about 15 years and when they have a vision, they go for it! So, we are incredibly grateful for their investment in our hybrid machines, and are excited to help them and their customers on their decarbonisation journey."

Please visit the SMT GB website to learn more about the Volvo EC300E Hybrid and Volvo EC350E Hybrid excavators.



KKB's new hybrid excavators will help limit their environmental impact and lead the way in sustainable construction.

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# Anaconda has grand opening for new factory

**Anaconda Equipment, a global manufacturer of material processing equipment, has completed phase one of the development of a new state-of-the-art manufacturing facility in Ardboe, Co Tyrone, Northern Ireland. The facility covers 31,330 sq. ft. and is home to a new paint shop, blast area and assembly fitting area. The new facility will allow for an increase in production capacity by up to 30%.**

The increased capacity will lead to the creation of a number of job opportunities in the region to support the speed at which machines will pass through production.

The new facility will be home to the state-of-the-art paint shop and blasting processes. The addition of a new blasting and paint shop will allow Anaconda to further improve the quality of the machines produced with a superior paint finish. As a company dedicated to satisfying customers and dealers, Anaconda places emphasis on the quality of the machinery produced. The investment into new, innovative, and high-tech painting and blasting machinery will aid with further ensuring an outstanding high-quality finish.



With an increasing customer demand for the Anaconda Equipment portfolio globally, the expansion to the company facilities will be welcomed. Quality enhancements, environmental benefits, shorter lead times and increased productivity will all help Anaconda meet one of the company's core goals – Customer Satisfaction.





"Over the last few years Anaconda has been deep in development of its tracked crushing equipment line with the launch of its open and closed circuit J12 Jaw and I12 Impactor models to add to its current full line of tracked screening, scalping, recycling, and conveying equipment.

We have an aggressive design plan to bring to market several additional tracked jaw, impactor and cone models, and a huge part of that strategy has been the work behind the scenes in finishing our new 31,300 sq. ft. state-of-the-art production facility adjacent to the current Anaconda facility," said co-Managing Director Alistair Forsyth.

"We are extremely proud of the growth that Anaconda has seen since its launch on the market in 2009, and this new facility will allow us to better serve our customer base for years to come. Furthermore, this expansion will bring several additional employment and supply opportunities to the local economy that has supported us throughout our journey," said co-Managing Director Martin Quinn.

Phase one of the development is testament to Anaconda's routes and will facilitate further growth over the next 15 years. Anaconda Equipment will build on this to then move on with phase two of the development plan focusing on infrastructure and people. Over the next few years Anaconda have plans to introduce new factories, new offices, and new technology. This is all to build on advancements with Anaconda's manufacturing processes whilst also creating a better working environment for employees.

Headquartered in Co Tyrone, Northern Ireland, Anaconda Equipment is part of the McLanahan Corporation family of companies. In 2019, they joined McLanahan's 185-years of history to help expand the company's product offering and reach a wider dealer network. Both companies have a strong commitment to innovation and long-lasting customer relationships. For more information, visit [www.anacondaequipment.com](http://www.anacondaequipment.com)



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# McLanahan Corporation opens new facility in Northern Ireland

**McLanahan Corporation is pleased to announce that it will be opening a new facility near Dungannon in Northern Ireland. The facility will cover more than 21,000 sq. ft. (1951 sq. m.) and will be used to manufacture crushing, screening, and wet processing equipment for McLanahan. The new facility will further support McLanahan's expansion and growth plans in the region.**

The increased capacity will lead to the creation of a number of job opportunities to support this ever-expanding area of the McLanahan business. Coupled with the recent acquisition of CMB International, the new, larger facility further reinforces McLanahan's ability to manufacture and supply a complete range of world-class equipment.

With an increasing customer demand for the McLanahan Aggregate Systems Equipment portfolio globally, the expansion of the company's facilities will be welcomed. Quality enhancements, environmental benefits, shorter lead times and increased productivity will all help McLanahan meet one of the company's core goals – customer satisfaction.

"Over the last few years, McLanahan has been deep in the development of its modular washing, crushing and screening equipment line with the launch of the Ultra range," said Business Line Director David Hunter. "We can now offer both standalone modular units or complete modular plants that allow you to wash, scrub and classify your material. We can also offer a full range of tailings solutions, including water treatment and filter presses, as well as the ability to crush your oversize material to maximize production. We are bringing more than 187 years of knowledge and experience in the materials processing industry to a whole new customer base."

Founded in 1835, McLanahan Corporation is a global leader in the design and manufacture of wet and dry processing solutions for the aggregate, mining, and agricultural industries. With decades of process knowledge and field-proven experience, McLanahan backs each piece of equipment with local lifetime service and support. For more information, contact [sales@mcclanahan.uk.com](mailto:sales@mcclanahan.uk.com) or visit [mcclanahan.com](http://mcclanahan.com)

# High Speed, High Performance with Terex Ecotec's TBG 530T High-Speed Shredder

**With an eye on innovation, leading environmental equipment specialist, Terex Ecotec, earlier this year expanded their world class range of mobile equipment with the launch of the eagerly awaited TBG 530T. A robust track mounted high speed shredder, the TBG 530T is ideal for medium scale producers requiring an accurate and consistent end product.**

Speaking about the latest innovation, Tony Devlin, Business Lines Director for Terex Ecotec said, "The TBG 530T enhances our high speed shredder offering and allows our product range to further meet operators' needs. Inspired by the successful TBG 630, the TBG 530T has been purposefully engineered to maintain the same key features in a smaller package. Easy to operate with excellent serviceability we are proud to have it in our portfolio and look forward to it dominating the market."

The TBG 530T has been rigorously tested and proven in the field processing a range of different applications in the UK & Ireland. Commenting on its performance Edgar Watt, Engineering Manager for Terex Ecotec said, "We are thoroughly impressed by the consistent performance and throughput of the TBG 530T, a 493HP swinging hammer high speed shredder. Extremely versatile, it excels in many applications and is particularly suited to waste wood processing and green waste shredding. Having worked closely with our dealers and customers we believe we have developed a machine that is right for the market, giving the end users exactly what they require."



## Intelligent Shredding

Powered by a 493HP Scania DC13 engine, the TBG 530T has been expertly designed to give operators unrivalled performance, ease of maintenance and superb fuel efficiency. With a rapid set up time the TBG 530T is ready to work in a matter of minutes with no tooling required. The open fronted feeder enables the TBG 530T to be fed quickly and easily from the rear. The intelligently controlled feed system, comprising of heavy duty drag chains and aggressive feed wheel with unique lift/downward assist, ensure optimum material flow resulting in class leading performance.

## Robust Rotor

At the heart of the machine is the 1,100mm diameter x 1,490mm wide swinging hammer rotor. This robust, direct drive rotor rotates at 1000 RPM and incorporates 30 up-swinging hammers. A wide selection of hammer designs and interchangeable screens are available allowing the machine to be configured to suit the ever-changing product requirements. The TBG 530T also benefits from the added protection of a screen kickback system. Should an unshreddable object enter the shredding chamber the screen will release allowing the material to quickly pass through, reducing the risk of accidental damage.





Processed material is removed from the machine via a modular product conveyor with an impressive discharge height of 4.6m. This conveyor also lowers to ground level for inspection and maintenance. An optional overband magnet with hydraulic height adjustment can be fitted to remove ferrous metal from the product.

### Unrivalled Service Access

Whether performing daily checks or carrying out maintenance, the TBG 530T offers unrivalled service access to all key areas of the machine. The electric/hydraulic raise/lower of the screen and interlocked chamber access door allow the rotor and anvil to be inspected with ease. Designed with the operator in mind, the TBG 530T offers the perfect blend of performance, efficiency and serviceability.

### Telematics

The TBG 530T is fitted as standard with the industry leading T-Link telematics solution designed to improve productivity, efficiency and profitability for the customer. T-Link is a remote monitoring, fleet management system that combines the machines' inbuilt CANbus control system with satellite positioning and telematics software. Available online anywhere and at any-time, T-Link provides instant access to key data including comprehensive information on GPS location, start and stop times, fuel consumption, operating hours, maintenance status and much more. Analysing this data can improve machine operation, increase uptime and allow in-depth reporting and fleet management.

### World Class Manufacturing & Distribution

Manufacturing of this latest high speed shredder will take place at Terex Campsie, a dedicated state of the art facility which will support the ongoing growth and development of Terex Ecotec's ever-expanding product portfolio. The TBG 530T is available to purchase now via Terex Ecotec's world class dealer distribution network that provide the sales and aftermarket service demanded for in the market. Sales Director for Terex Ecotec, Pawel Kononczuk commented, "The reaction received to the TBG 530T from our dealer network has been fantastic, with numerous orders already secured. Having had the opportunity to see first-hand the machines' capabilities they fully appreciate the benefits it will bring to businesses."

The addition of the TBG 530T will further enhance an already significant portfolio of products offered by Terex Ecotec and demonstrates their continued passion and commitment for new product development and innovation, positioning them at the forefront of the recycling market.

To learn more about the New TBG 530T and to locate your nearest dealer visit [www.terex.com/ecotec](http://www.terex.com/ecotec)



# Since 1969 Rapid International Ltd have provided innovative mixing technology solutions to the world

**Rapid International Ltd are County Armagh based leading Manufacturers of bespoke designed concrete plants, Mobile Continuous Mixing Plant, Mobile Concrete Batching Plant, Concrete Mixers, and concrete truck mixers.**

Here at Rapid International we have been striving to exceed our customers' expectations in quality, delivery, and cost through continuous improvement and customer interaction.

We pride ourselves on developing products that are driven by the needs of our customers with products that do not overpromise and under deliver.

Rapid's aim is to offer all the high quality, personalised service elements of a Northern Ireland based family run business in tandem with an outstandingly reliable and innovative product range.

Established in 1969, Rapid has supplied innovative mixing technology solutions to some of the world's leading concrete, construction, and environmental companies, including CRH, CEMEX, Lafarge Holcim, Heidelberg Group and many more.

**Rapid's innovative product portfolio includes:**

- Mobile concrete batching plants (both super and compact sized)
- Mobile Continuous Concrete Mixing Plant / Pugmills (both wheel and track mounted)
- Pan, Planetary and Twin Shaft Concrete Mixers
- High Pressure Concrete Mixer Washout Systems
- Static/ Bespoke Concrete Batching Plant
- Concrete Reclaimers
- Truck mixers

**Countries covered:**

Rapid International have a foothold in over 20 countries, with a strong portfolio of well-established machinery dealers including in the United Kingdom, Ireland, France, Australia, NZ, Mexico, Canada, and USA.

We are currently working towards expanding our existing sales network, and further developing our product portfolio for the ever-changing world.



Developing an innovative product portfolio is at the heart of our current vision and aims for the future. In today's world the focus is on preserving the environment around us. For Rapid it is extremely important that our new product drive is for machinery that can help clients and contractor's alike produce the right product, in a cost effective, environmentally conscious, and efficient way. The shift towards on-site mixing and processing is growing and Rapid's product range is offering customers more and more effective options.



**One example is our Trakmix and Rapidmix ranges, which include continuous weighing plant options and are appropriate for a wide range of mixing applications, including, but not limited to:**

- Roller Compacted Concrete
- CBM/CBGM – Cement Bound Materials/Cement Bound Granular Mixtures

- Soil Recycling (including clay soils)
- Bentonite Enriched soils
- Contaminated land treatment
- Coldmix – foamed Bitumen/ Bitumen Emulsions
- Tunnel Arising/Findings
- Marine Dredging
- Mine Backfill

And many more mixing applications...

**All Rapid our products are a superior choice for a wide varying selection of concrete, construction, and environmental projects including:**

- Ready-mixing, pre-Cast and Pres-stressed concrete
- Environmental stabilisation projects
- Waste management
- Aggregate recycling
- Road building
- Mining

**Plans going forward:**

Rapid International will continue to focus on growth through offering our clients pioneering and competitive products. We want to deliver on the growing demands of high-volume throughput machinery, fast mobilisation, energy efficiency, low cost running and low maintenance.

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Trevor Heatrick, Director at Skipway & Tracy O'Kane, Technical Innovation Lead at CDE

# CDE and Skipway open day showcases latest trommel fines solution

**Dunmurry plant showcases recycling technology**

**On Wednesday 16th and Thursday 17th November, Skipway opened its doors to its latest trommel fines wash plant to demonstrate how CDE wet processing technology is supporting the waste management firm to divert over 95% of its trommel fines from landfill.**

The event commenced with a guided tour of CDE's world-class manufacturing facility in Monkstown.

Guests were shown the 300,000 sq. ft. facility in operation, where CDE's advanced wet processing solutions are commissioned for customers around the world, from Creagh Concrete in Toome, Northern Ireland to Posillico Materials LLC on Long Island, New York; Repurpose It in Melbourne, Australia to Feiring Bruk, Norway.

As part of a long-term investment strategy in its manufacturing capabilities, CDE recently commissioned two new Bystronic high-speed sheet metal laser cutting systems. The systems integrate with a new 400-tonne steel storage and management system incorporating fully automated loading and offloading of the laser cutters.

Following the tour of CDE's facility, guests were invited to tour its latest trommel fines solution, designed and engineered for Skipway.

The new 50tph trommel fines plant has been commissioned at the waste management firm's processing site in Dunmurry, one of three recycling facilities it operates in Belfast, Lisburn and Portadown.

It diverts trommel fines from landfill and converts the material into a resource by producing recycled products with the same specification and quality as quarry grade sand, therefore making it suitable for concrete and building products while also improving the quality of other recycled aggregates such as pipe bedding and recycled hardcore.

Skipway director Trevor Heatrick said: "By putting trommel fines through a wet processing plant the clean sand and aggregates recovered can be resold and reused in the secondary aggregates market. This minimises disposal costs, as well as closing the loop on challenging waste streams to create a more circular economy and generating additional revenue for our business."

CDE business development manager Fergal Campbell added: "We enjoyed guiding our industry colleagues through the entire CDE process as part of the open day event. From fabrication through to the commissioning of a plant, this event will highlight the engineering excellence for which CDE has become renowned over its 30-year history."



CDE trommel fines plant designed and engineered for Skipway

# Four decades of Axon Power & Control



**For almost four decades have been at the forefront of electrical system design and installation for the materials handling industry in the UK and Ireland.**

Based in Dungannon, Northern Ireland Axon have a strong history built on servicing the needs of the mobile machinery equipment manufacturers in Tyrone. Axon Power & Control have provided solutions ranging from initial design and manufacture through to installation and commissioning.

With a 'can do' attitude to problem solving Axon have the industry experience, technical expertise and a track record that reflects their consistent, efficient, design and management of complex projects.

As an ISO accredited company and approved members of NICEIC and Avetta the highest standards can be assured with every project, providing the right system design after detailed consultation for the most appropriate and straight forward optimum solution.

**Purpose-built facility:**

Working from a purpose-built 25,000 square foot manufacturing facility provides Axon with the capability to manufacture and test control panels to the latest standards. Axon can provide a wide range of services from a simple machine panel to modular motor control centres with the ability to meet international control requirements and upgrade/modify or modernise existing control systems.

Each system built is subject to a stringent in-house functional test procedure to ensure correct operation in-line with customer requirements and adherence to standards.

**These include:**

- Form 2 & 4 Construction
- Conventional and Intelligent Starter Options
- Bespoke Enclosure Design

- Bespoke RAL/BS Powder Coating Options
- Containerised Solutions
- CE/UKCA/UL Certification
- ISO Accredited Manufacturing Process





**In-house design team:**

Axon stands apart from many others in the sector in that they offer the services of a highly experienced in-house design team who have full control over the delivery of a project from initial concept through to execution and delivery of final as-built documentation.

Project engineers take time to gain an understanding of the requirements of the process or system to design a bespoke solution including motor control, energy management, electrical distribution to meet a client's needs. Each system is tailored to the specific needs of the project whether this is a single machine build or a complete plant wide control system.

Axon engineers will consult with third-party equipment providers where required to provide a fully integrated process control solution bringing together all available information into a single central plant control system.

Axon can provide systems based on the hardware and software platforms of all of the leading equipment suppliers including Schneider Electric, Siemens, Allen Bradley, ifm and Mitsubishi.

**These include:**

- PLC Software
- HMI Software
- SCADA Systems
- Industrial Wi-Fi networks
- Mobile & Tablet Solutions
- Remote Access & Data Gathering



# Omega Crushing and Screening's electric jaw crushers offer simplicity, fuel savings and low emissions

**Hailing from County Tyrone, Northern Ireland's 'home of crushing and screening', Omega Crushing and Screening has developed a range of plug-in, dual power, electric-drive jaw crushers which deliver reliability, fuel savings and low/zero-emissions operation.**

Omega Crushing and Screening was founded by its three current directors, Colin Daly, Anthony Carlin and Robert Douglas. Sales Director Colin Daly has spent 25 years in the industry selling used crushing and screening equipment. Technical Support Director Anthony Carlin and Production Director Robert Douglas both gained an in-depth knowledge of the technical aspects of the equipment through many years spent in service roles in the field.

## Simple design

The Omega project was conceived when the team became aware of an interest in the market for a more simply-designed machine which contained fewer complex electronic and hydraulic components, and which would be straightforward to both operate and maintain.

While the Omega machines themselves are powered by either the mains electrical supply or an on-board generator, all of their main components are also electrically driven, such as the head and tail drums of the conveyors and the motors that run the feeders.

Anthony Carlin, Technical Support Director, elaborates on the crusher's simple design. "Many quarry machines today have become very high-tech, whereas the user often wants a simple, user-friendly machine. The control panel is very straightforward – there are no parameters or PLCs that you need to look at. It also uses a three-phase electrical system which is quite easy for electricians to work on. We have also

done away with the complicated hydraulic toggle tensioning system on the crusher and gone back to the single drawback rod tensioning system. This, combined with hydraulic wedge adjustment makes it simple and reliable", he says.

## Fuel savings and reduced emissions

With other manufacturers now offering diesel-electric hybrid machines, Omega Crushing and Screening has chosen to take the next step in this direction and make its offering fully electric. The crushers can be plugged into the power grid and run without any diesel power input. Alternatively, when an external power source is not available, the wheeled and tracked models share a dual-power option. This means the machines can run off an onboard 220 kVa powerpack with a Stage V/Tier 5 Deutz engine.

Among the benefits of electric power is the ability of the machine to run without producing exhaust gases. Sales Director Colin Daly describes how the clean-running crushers have found a niche with some customers in urban applications. "As all three models in our range can run on mains electricity, all three are being used in metropolitan areas where emissions are an issue. For example, we recently sold a machine in Bulgaria. The company that bought it was going to work on a government project where particular emissions targets had to be hit. Our machine was a perfect fit as it could work on mains power and produce zero emissions", he says.





Another strength of the Omega machines is the dramatically lower fuel consumption they offer in comparison to conventional hydraulic machines. When running on mains electricity, fuel burn is reduced to zero. Even when using the onboard diesel generator, the J1065 range consumes fuel as low as 10 litres per hour, a saving of approximately 10-12 litres versus a similar hydraulic-drive machine.

Lastly, the electric drive is capable of operating efficiently in the world's most extreme climates. Omega has recently completed a sale of a machine to the United Arab Emirates, where daytime temperatures can exceed 40°C and hydraulic machines can only run at night. In contrast, another Omega customer is operating a crusher in northern Norway, where lows of -20 °C are experienced.

### The Omega range

Omega's machines all use the J1065 single toggle jaw crusher unit. The J1065 has a large feed opening of 1,000 x 650 mm (39.4 x 25.6"). It is driven by a 90kW (121 hp) electric motor and uses a simple drawback tensioning system. Some other noteworthy points are the heavy-duty shaft installed with premium bearings, the large jaw ejector cylinder, and the bolted mainframe, which provides strength and durability. The crusher achieves an output of approximately 200 tonnes (220 tons) per hour.

The Omega range currently includes three models: the J1065S – a modular, static plant; the J1065M – an easily transportable, wheeled model; and the J1065T – a tracked machine.

- The J1065S static crushing plant consists of the J1065 jaw crusher fitted in a modular assembly which includes a vibrating feeder with a stepped grizzly section and galvanised walkways and handrails. The J1065S is suited to applications such as municipal recycling and C&D waste recycling, or can be used as part of a quarry or mining installation. The plant can even be set up inside a building, thanks to its ability to run emission-free on mains power.
- The wheeled J1065M delivers the benefit of being easily transported from one site to the next. With transport dimensions of 12.16 m (39' 10") long and 2.55 m (8' 5") wide and a weight of 32,000 kg (70,548 lbs), it can be transported like a normal trailer, without the need for a permit.
- The most recent addition to the line up is the J1065T tracked crusher. Weighing in at 30,000 kg (66,139 lbs), the J1065T features a 3.8 m<sup>3</sup> hydraulic folding, Hardox-lined hopper and a 900 mm (35.4") discharge conveyor and a 600 mm (23.6") fines conveyor. The main conveyor can be raised and lowered hydraulically for rebar clearance and is also fitted with an overband magnet separator.

The introduction of a second crusher unit model is scheduled for late 2022. Based on the same design as the J1065, the J1275 will have a larger 1,200 x 750 mm (47.2" x 29.5") jaw opening, a more powerful 110 kW (148 hp) drive motor and will be part of a machine weighing 48 tonnes.



# EDGE Innovate: A Family Company with a Global Reach

**When County Tyrone based KMC Engineering opened its doors in 1994 no one could have known that 14 years later the family owned company would evolve into EDGE Innovate to become one of the world's biggest manufacturers and exporters of sophisticated equipment for the quarrying, waste handling and recycling sectors.**

Today, as it increasingly focuses on the growing environmental sector, EDGE Innovate employs around 170 people directly, and currently exports more than 99% of its products from its state-of-the-art manufacturing facility, having developed a strong presence throughout overseas markets such as North America, Australia, and Middle East.



So, what has contributed to its rapid and impressive success? Comments Managing Director Darragh Cullen: "There are many things that have come together to make the company what it is today, not least our staff and employees – from the shop floor to our sales people, to our marketing department and to our management team.

"We have some excellent managers here, some have been with us for a long time, others are relatively new, providing us with an excellent mix of management skills; it is good to bring in new people with expertise in different sectors who can provide a fresh outlook.

"Our workforce is very loyal and everyone is proud to work here; we have a lot of committed people who believe strongly in the company and the brand we have created. They will go the extra mile for us and for our customers. We are not afraid of change. We don't stand still, we are always moving forward, questioning our processes and procedures, always open to fresh ideas and suggestions, always flexible in our approach."

Ever since those KMC Engineering days when the company was sub contracted to a number of major exporters and manufacturers, the management team has been good at keeping costs under control, keeping overheads to a minimum and moving forward in an efficient and productive way.

"Our people have always had a flair for good design and KMC Engineering provided us with a solid base to grow and evolve into EDGE Innovate. Our customers are our sounding board in terms of new ideas and new products; we are very customer driven in everything we do," says Darragh.

"We have a strong marketing team both locally and internationally and consequently our brand is known and respected in many countries. We are not called 'EDGE' for nothing. We strive to give our customers an 'edge' in the marketplace over their competition."

## Award Winning

No one, then, perhaps should be surprised that this year has been somewhat special for the company as it was presented with the Queens Award for Enterprise recognising its excellence in International Trade for the second time, having won its first Queen's Award in 2019, becoming only one of



seven companies to achieve two such Queen's Awards.

"Given the sad passing of Her Majesty the Queen, the awards will always be treasured," adds Darragh who earlier this year met the new King. "When we were invited to Buckingham Palace for the awards presentation, it was the then Prince Charles who hosted the ceremony, as he did back in 2019.

"We view this latest award as recognition of the hard work and resilience of all our stakeholders over the last three years, especially during the time of the pandemic. With staff suffering from covid, isolating and with enforced lockdown, it has been an extremely challenging period. I want to thank our entire team for their help during this time. To our suppliers who have been faced with their own difficulties, thank you for your support. To our customers who have had to deal with long delivery times and increased costs, thank you very much for your patience."

We mentioned earlier that EDGE Innovate is flexible in its approach to business – and that extends to its product designs; in fact, much of its equipment is produced with flexibility in mind. "Bringing new products to the market on a regular basis is very important, no more so than in the environmental sector where demands, standards and legislation are changing all the time," explains Darragh, "which is why we are able to tailor existing products to specific customer requirements; what suits one client in one country may not necessarily so in another, so being able to 'tweak' our equipment designs makes it a lot more efficient and cost effective for both us and the customer."

Of course, the company has a very proactive R&D department, constantly working on new designs and innovations, utilising latest technologies to do so. "R&D has always been an integral part of our business from the very beginning. At the moment, there is a big focus on electrification of equipment, but requirements differ from one country to another in terms of recycling needs and demand for carbon neutral products, so it is always a balancing act. Ultimately, I look forward to the day when there is no diesel



powered equipment leaving our facilities.”

### Dealer Network

Turning to the dealer network; that is the lifeblood of any company, and comments Tom Connolly, territory sales manager: “Our partners across the world are hugely important. Currently, we have 70 dealers and partners around the world and we maintain and foster a strong positive relationship with all of them. We work as a team, which is another reason for our success.”

Tom has been with the company for over 15 years and has established solid working relationships throughout the dealer network. He is always seeking out new emerging territories and new partners who would be a good fit for EDGE Innovate and much of his time is spent abroad.

“The big selling points for Edge is the versatility of the machines we have in our portfolio, and being able to focus on a diverse range of applications, especially in the waste and recycling sector – from small operations to multi-nationals, we have equipment that can perform in a variety of different environments and tasks and meet different regional levels of legislation and standards.”

The company’s long term goals is to ensure that EDGE becomes one of the biggest names in the waste and recycling sector in the UK, as it already is in other countries. That process is already underway, with the appointment of Red Knight 6 Ltd (RK6) as their exclusive distributor for England and Wales. RK6 are distributors of world leading crushing, screening and recycling equipment for the quarrying, demolition and waste recycling industries throughout the UK & Ireland.

“We have been looking for a partner that will work with us on a long term basis and help drive greater sales throughout the UK. The experience RK6 has and the way they want to work with their partners fits perfectly with what we are looking for to grow our UK business,” said Tom.



Adds Paul Donnelly, Managing Director of RK6: “The EDGE Innovate product range compliments the brands we already work with perfectly. We recognise the opportunity for EDGE Innovate in the UK is a huge one and we look forward to delivering similar success to that already seen by our other partners.”

### Ongoing Investment

Three years ago EDGE Innovate embarked on an £8m investment plan to cope with growing demand for its products. A new paint shop and stores facilities have been added, increasing production capacity by 30% and a new Customer Welcome Centre is being established to house its ever-expanding sales, marketing and aftersales departments.

“The new centre will be well utilised as we are constantly welcoming customers here from all over the world, sometimes for product training, other times to let them see our production processes and to get to know them on a more personal basis.”

So, what does the future hold for EDGE Innovate? “We want to continue to grow at a controlled level, placing strong focus on product development, product support and service excellence. As I said, the only real difference between any business is the people who work in it and I believe we have the very best.”



# Red Knight 6 for all your crushing, screening & material recycling needs

**Red Knight 6 are distributors of world leading crushing, screening and recycling, equipment to the demolition, quarrying and waste recycling industries throughout the UK and Ireland.**

Founded in 2015 the company represent several NI OEM's including MDS, Nordmann and Rubble Master® Dungannon, the latest edition to their equipment portfolio is EDGE Innovate who are based in Dungannon and manufacture a stunning range of machines that can shred, screen, separate, stack and size for the quarrying and recycling industries amongst others.

Red Knight 6 also have a number of other brands within their portfolio including Komplet, General Kinetics, SIMEM and the CMB Rubble Crusher which is a trailer mounted jaw crusher which is ideal for low to moderate crushing projects being perfect for builders and now available on tracks.

Red Knight 6 was formed by MD - Paul Donnelly, originally from Tyrone, who has had 20 years industry experience gained in the UK and Australia, with stints in Powerscreen, where roles ranged from working in the parts department through to European Dealer Manager. After working as General Manager at Blue London Paul decided to strike out on his own, launching the RK6 dealership with the Rubble Master® brand.



Paul, commented, "Right from the start we wanted to be different, and we knew we had the right tool in the Rubble Master® Impactor. At this point the impact crusher was not very well understood in the UK and we realised with Rubble Master® we had a well built and developed brand that we could sell to the UK market. The machine was more versatile and had more applications than a jaw or a cone crusher. There was so much to gain from an impactor as you could easily reduce 40mm down to more saleable 10mm and 20mm and then set the machine on another application.





“At the time we used social media to spread the word on how to use an impactor and we developed the business very rapidly. Eventually the other brands started talking about impactors, but we had a machine range that was far more versatile than other brands.”

**Growth over the last three years:**

Red Knight 6 has experienced excellent growth over the last 3 years and now have a strong sales team covering the UK and a fleet of service engineers who can tap into a vast network of parts manufacturers to manage the maintenance of the portfolio of brands. Back in 2019 pre Covid the company had a £5-6 million turnover and Paul had discussed with the team and set a target of a turnover of £10-12 million within the next five years.

As Paul points out no one saw it coming but after the first few weeks the construction industry started up and demand slowly came back in.

Paul, commented, “We could see the demand was going to grow so rang Rubble Master® and asked them if they had any machines in stock due to the Covid situation; they did, so we asked them to send them over to us. It did provide us with a massive advantage as we continued our sales by phone and delivered and commissioned machines under the new site rules!

After things settled down RK6 then looked at the market to see what could be added to the equipment portfolio. Shredders seemed an obvious choice and after looking at the list of manufacturers we felt EDGE produced the best machines combined with the best opportunity for growth in the UK market.

EDGE had never really concentrated on the UK market so after a factory visit and discussions it was agreed that RK6 would be the sole UK dealer in June of this year.

**About Edge Innovate:**

With over 25 years’ experience in designing and manufacturing; EDGE Innovate has quickly become a global leader in the design and distribution of a range of equipment used in the recycling, materials handling, and quarry industries. With a central ethos of “Innovation at Work” EDGE Innovate have consistently challenged the boundaries of design and manufacturing to produce hard working, quality machinery that bring operational benefits to their customers right across the world. Their products are built with one common central design principle; to minimise operational costs whilst improving production efficiency.

From the start, EDGE Innovate quickly gained a foothold into the competitive material handling and recycling equipment manufacturing sectors through implementing an aggressive product development programme, creating an ever-increasing annual turnover, and employing over 170 people directly. EDGE Innovate’s equipment can be seen working in over 52 different countries in a wide range of different industries with the brand being supported via a 50 plus strong distributor network.

Their material handling and recycling range of products can be seen working in quarries, mines, port terminals and municipal refuse facilities throughout the globe. Their dependable, durable, and cost saving product portfolio of mobile stockpilers, tracked stackers, tracked and mobile feeders, trommels, slow-speed waste shredders, picking stations, material classifiers, roll-sizers and truck off-loaders allow customers to shred, screen, separate, stockpile and size a vast array of materials.

Paul concluded, “EDGE is a fabulous addition to our portfolio the range of products have been designed to provide the most efficient and cost-effective material handling and recycling processes possible. We see EDGE as quality and value for money and a big advantage for us is they are family owned like Rubble Master® so any communication is directly to the top. They push the boundaries of design and manufacturing to produce hard working, quality machinery to fit any materials handling requirement from recycling to quarrying.”



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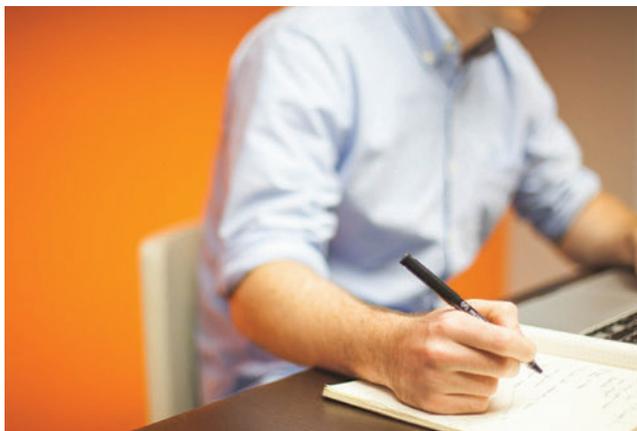


# Why the CIWM (WAMITAB) VRQ route is right for you!



**CIWM** Undertaking your CIWM (WAMITAB) route to competence may be a daunting and overwhelming thought. Since the Pandemic we have seen a huge change with the increase of virtual training and online assessments taking over from the physical training aspects and face to face contact.

However, we are here to make your training as seamless as possible, offering both virtual and physical training routes to suit your individual needs.



## Why Choose a Vocational Related Qualification (VRQ)?

All permitted waste sites must ensure they comply with the Environmental Permitting (England and Wales) Regulations. This means that there must be a Technically Competent Manager (TCM) on site. The TCM must demonstrate primary competence by completing one of the CIWM (WAMITAB) Operator Competence Scheme Qualifications.

The Level 4 VRQ is an ideal route for those who are new to the industry and working on a low or medium risk site, or simply prefer a "taught and tested" method of learning. The qualification is a 5 day in depth learning route that provides the delegate with the relevant skills, knowledge and understanding needed to work confidently and competently in the waste industry.

Once the delegate has completed the training course element of the VRQ, they will then complete 6 question papers all relating to the knowledge they have gained on the training course. Once they have successfully achieved the 6 question papers then they will be issued with a certificate demonstrating their primary competence.

The course can be completed virtually from the comfort of your own home, or alternatively one of our trainers can come to your site. We also have a VRQ course that we have tailored to cover Scottish Legislation Requirements.

## Choosing your Qualification Route

The required qualification will depend on your site activity, your permit will determine the risk level of your site and will help in selecting the correct qualification route. The VRQ route is one of the most cost-effective and efficient routes to achieve the required level of competence. We can offer a range of units under the VRQ including Physical Treatment, Metal Recovery and End of Life Vehicles to name a few. The VRQ offers a total of 10 optional units, and you can undertake as many of these as you like alongside the 5 mandatory units. Have a look on our website to see a full list of the optional units available.

If you are unsure of the qualification you need to take, then one of our specialist team, can give you a call to discuss your permit requirements and help you plan the best route to obtain your competency with the VRQ.

## Achieving your VRQ with Certora

We work closely with the team at CIWM (WAMITAB), our trainers and the companies we deliver training to so that we can ensure the VRQ is as interesting as possible, providing our delegates with the knowledge needed to successfully achieve their qualification, whilst ensuring the content is as up to date as possible.

Did you know that in addition to the VRQ, we provide a full remit of CIWM (WAMITAB) qualifications. Visit our website to see the full range of waste qualifications and training courses available.



For more information on the VRQ or any other training needs please call 01246 386900 and speak to one of our dedicated sales team.



## Gallagher's Hermitage Quarry reduces their carbon footprint with the help of PowerX Equipment

By John Vincent

**Hermitage Quarry is located in Maidstone, Kent and is one of only two processing operations actively quarrying Kentish Ragstone. Owned and operated by Gallagher Aggregates Ltd who are at the heart of the Gallagher Group. Hermitage Quarry has the capability to produce up to 1 million tonnes of aggregate per annum, which are processed into more than 70 different construction materials. Gallagher also operate six concrete plants, supplied mainly by their own indigenous aggregates. Additionally, Gallagher operate a modern recycling facility at Hermitage Quarry which processes construction and demolition waste into a range of recycled aggregates in addition to an active Landfill facility that accepts inert waste which cannot be recycled to fill the void left by quarrying back to original levels.**

Hermitage Quarry features two benches, which are drilled and blasted by conventional techniques and the as blasted material is loaded and hauled to the processing plant that features a Hercules trommel, which efficiently segregates the interbedded nature of the deposit. The material is then processed and washed into aggregates through a series of crushers, screens, log washers and cyclones.

All these operations including drilling and blasting are conducted by the in-house Gallagher team.



### The new conveyor installation:

Having previously visited the quarry almost twenty years ago to view the then new wash plant [which had been installed by PowerX Engineers] it was interesting to view the recent changes in operation today.

I met Dave Scanlan the Quarry Manager who took me on a tour of the quarry.

Recently modifications have been made to the stockpile feed from the wash plant.





Dave, commented, "We had recently installed a new state of the art concrete plant on-site and we made the decision to move the aggregate closer to the new plant to make the process more efficient and most importantly reduce our carbon footprint. We were using dump trucks and wheeled loaders to haul the washed and rinsed aggregate from the wash plant to the concrete plant bins, so we decided to make some changes and turn the second screen to feed off on the left-hand side onto three transfer conveyors. This eliminated one dump truck and one loading shovel from the process"

We had previously engaged PowerX Equipment on several projects over the years and we viewed them as a tried and tested company, very skilled in what they design and offer. Subsequently they were given the order to design and commission the three new conveyors, feed hoppers and supporting structures complete with safety walkways, improving access and egress."

At this time, new aggregate storage bays and the concrete foundations for the new transfer gantries were completed by the in-house Gallagher team.

Installed and commissioned within a time frame of two weeks the three 800mm wide transfer conveyors, each approximately 30 metres in length are supported by a modular galvanised support structure and feature fully guarded 800mm steel emergency walkways and include head and tail drums with maintenance platform.

Specifically in line with Gallagher's philosophy on Air and material quality, the conveyors are also fully covered.

On an average day, the wash plant processes in the region of 2,000 tons with the new no 1 transfer conveyor handling the sharp sand, with washed 10mm aggregate on conveyor no 2, and washed 20mm aggregate on conveyor no 3. The finished 3 products are generally consumed within Gallaghers concrete business or supplied to the external market for pipe bedding and block manufacture.

Dave, concluded, "Pat Gallagher and the family always invest in the best equipment, and it is credit to PowerX Equipment that the installation does "exactly what it says on the tin." If you look at the original wash plant [Since installation has processed 9 million tonnes] we have only had to upgrade two screens in the last 8 years and apart from the usual wear and tear the 20-year-old plant is solid. An adjacent logwasher which had reached 'end of life' was replaced two years ago and again PowerX did a thoroughly competent job with the supply and installation!

"The PowerX team are first class with a huge commitment to Health and Safety, with all their team well trained, competent and knowledgeable. The project was completed easily within the time frame, and we are very pleased with the final outcome."



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## PowerX Equipment offer plant installation through to aftersales support and rapid response

**PowerX Equipment is the next generation in aggregate and mineral processing. With over forty years' experience in the industry, they have been the driving force behind aggregate mineral processing within the UK. They have been able to establish themselves as a trusted partner to all major leading producers of aggregates within the UK market supplying spares and service engineers on a regular basis. PowerX Equipment combines an experienced and dedicated team with well-known and respected brands.**

They offer customers ongoing site support and guidance, through their Spares and Service Division. Their dedicated Spares Division team is on hand to assist sites in ensuring continued running and minimised downtime. PowerX Equipment has its own fully stocked warehouse at their HQ in Coventry, offering a wide range of genuine OEM spares, wear parts and filters from major manufacturers including Terex® Washing Systems, Terex® MPS, Matec, AMP, MS and Powerscreen®.

Managing Director, Luke Talbot, explains, "Our in-depth knowledge of, and ongoing relationships with our equipment manufacturers has been vital to our success as it means we are able to access plant build information directly from the OEM source. This ensures that the required parts are delivered quickly to our customers."

From plant installation through to aftersales support and rapid response, PowerX Equipment's customer first approach has enabled them to become the leading provider of OEM spares across washing, crushing, and screening equipment. They also offer full servicing on equipment, backed by original manufacturer parts, to keep operations maintained and running to their full potential. Only genuine parts guarantee the safety, proper functioning, and reliability of the equipment, and ultimately delivers outstanding performance of the



installations come with a recommended spares list to make it as easy as possible for customers to order the correct spare parts. They have a customised parts system to record all the parts their customers' order. This makes reordering easy and problem free for their customers and with their extensive range in stock, most parts can be delivered next day. In addition, PowerX Equipment can fabricate and fit bespoke parts, chutes, structures, pipework and more.

Luke Talbot, says, "PowerX Equipment are committed to supporting our customers long after their plant installation. We understand that the key to their success is having reliable, fully operational equipment to keep productivity flowing and downtime to an absolute minimum. This is why we have invested in our Spares and Service Division to ensure we not only have a wide range of parts, but also an expert team of fully qualified and experienced engineers available to help our customers with advice, maintenance, and fitting in a timely manner."

For more information or to order your spare parts email [parts@pxequip.com](mailto:parts@pxequip.com)

# Identifying and addressing conveyor idler issues



"Knocking" an idler with a mallet to change its position

**On any belt conveyor system that moves bulk materials, the belt must run straight and true to maximize its life, minimize fugitive material and safety hazards, and achieve high system efficiency. There can be many consequences of a mistracking belt, but all result in higher costs and increased maintenance. Even a slight belt misalignment can lead to a variety of issues, from small annoyances to full-blown catastrophes.**

The most obvious effects include spillage and dust that require personnel to do cleanup, which is unproductive work that introduces risks from activities in close proximity to the moving conveyor. Spillage from non-centered cargo often gets into idlers and pulleys, reducing bearing life and causing them to seize, leading to friction damage on the belt and potentially starting a fire.

A misaligned belt can also come in contact with the stringer, causing fraying, shredding or splice damage. Great lengths of valuable belting can be destroyed with surprising speed, and even the support structure itself can be damaged. A

compromised bracket or support can cause a catastrophic idler failure, which could damage other components of the system and require extensive downtime to repair. Further, there is potential for injury from a damaged belt or loose idler not to mention the increased exposure to injury from too frequent a need to clean.

"I've been working around conveyors for 20 years, and I've seen thousands of belts," observed Martin Engineering Process Engineer Dan Marshall.

"I've seen just about every problem that can be caused by a mistracking belt, but one thing I've never seen is a belt that runs true right out of the box. All conveyors, no matter how well designed and built, have some belt wander."

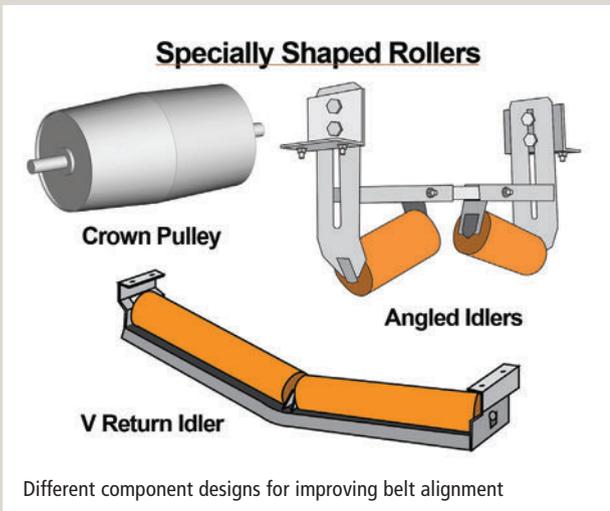
A wide variety of circumstances can lead to mistracking, and operators have tried many things to correct the alignment. Some have elected to place an obstacle such as a block of wood in the belt path, so it won't travel too

far out of line. This occasionally improves the situation, but more often it's just temporary and the belt will eventually slice through the obstacle.

Many operators have realized that pivoting an idler is a quicker and more effective way to steer a belt. This common approach is called "knocking an idler," striking it with a hammer to move it slightly and realign the belt.

Equipment manufacturers have also designed components to help align a belt, and these solutions can be successful in specific applications. They include specially-shaped rollers, angled idlers and devices that apply pressure to the belt edge to push it back in line.

"While these mechanisms can improve a belt that's consistently off-center in one direction, they do not react to dynamic belt movement, meaning that they don't correct intermittent belt wander," Marshall continued. "To combat such changing conditions, engineers designed the tracking idler. Unlike the edge correction approach, the device senses belt movement in either direction, and pivots the idler slightly to steer the belt back into position. It doesn't apply a great



tracking idler to limit its movement. While the practice can help preserve the belt, it doesn't address significant mistracking.

To overcome the limitations of existing belt alignment devices, Martin Engineering has invented and patented a Multi-Pivot Belt Tracker, which employs sensors, pivoting idlers and geometry to align a wandering belt. The sensors avoid pinching the belt, and the engineered geometry amplifies any detected misalignment to create a greater pivot.

Multi-Pivot Belt Trainers use longer arms than other designs, positioning the guide rolls further from the pivot roller, as well as closer to the belt edge. The closer proximity allows guide rolls to sense very slight misalignments and make



immediate corrections. Rather than waiting for a powerful mistracking force, the longer arms require considerably less pressure to move the pivot roller. The result is better correction with no pinch points and less wear on conveyor and tracking equipment, for longer and more efficient service life. Specific designs are available for both the load-carrying belt path and the return run.

"Installing trackers is the economical solution, but operators should do a full analysis and consider also addressing other causal issues," Marshall added. "By focusing solely on belt alignment, plant personnel may miss other opportunities to increase production and relieve some of the burdens on their system."

Keeping the belt centered and moving quickly is the key to high production, controlled operating cost and a safer workplace. "Misalignment causes downtime and costs money," Marshall concluded. "But nothing causes more downtime and expense than a destructive belt fire or other catastrophe as a result of inattention to mistracking problems."

Author: R. Todd Swinderman, P.E. / CEO Emeritus / Martin Engineering

deal of force to the edges, which can damage a belt and splices. When the belt is running true, it remains centered, and when it senses a misaligned condition, it gently corrects the belt."

Unfortunately, to accommodate limited space availability, tracking idlers typically have short sensing arms. This requires a fairly large belt displacement to create a small movement of the idler. While these designs do tend to improve tracking, there are limits to how much correction they can deliver, and short sensing arms can actually pinch a belt if the idler pivots too far. To combat this, some operators choose to "tie off" a

# New Wheel Loader slashes fuel costs per tonne of sand

**Doosan DL420CVT-7 provides new operating efficiencies in sand pit**

**Since 1920, the company, Müller und Töchter GmbH & Co. KG, has been operating various sand pits in the Franconia region of Bavaria in Germany. Now the arrival of the company's first Doosan wheel loader, a new DL420CVT-7 model, with a Continuously Variable Transmission (CVT), has significantly reduced fuel costs per tonne of sand produced.**

The new machine is being used in the sand plant at the company's headquarters in Wilburgstetten. The Doosan wheel loader is working exclusively on feeding material into the washing plant. The latter is unique in Germany and was recently awarded second place in the German Sustainability Award 2022.

Here, the DL420CVT-7 transfers more than 1000 tonne of sand into the washing plant every day. One of the main factors for the low fuel consumption is the variable transmission. Marc Glesius, Sales Manager for wheel loaders at Doosan in Germany, explains: "This transmission combines the advantages of a mechanical and hydrostatic transmission and eliminates the disadvantages underlying both systems. The variable transmission changes smoothly from hydrostatic drive to mechanical drive as the speed increases and depending on the requirements of the application.



"The advantages of this system include in particular the excellent traction offered by a hydrostatic transmission and the ability to drive over longer distances with a purely mechanical one. The fuel savings of up to 30% are due to the lower engine speed required to achieve maximum speed or traction compared to conventional transmissions."



## More Efficiency Not Only in Reducing Fuel Consumption

Especially for the quarrying and mining industries, where the productivity in terms of tonnes of materials per litre of fuel is crucial, the faster loading cycles and higher bucket capacity of the new generation DL-7 wheel loader series from Doosan provides more efficiency as well as lower fuel consumption. At Müller und Töchter, the DL420CVT-7 wheel loader is used with a 4.7 m<sup>3</sup> bucket, working in both loading and travel modes, allowing the advantages of the CVT transmission to be fully exploited.

Managing Director, Georg Müller, bought the machine from the Doosan dealer, Rühle, with whom he has had a close relationship for many years. One of the decisive factors behind the purchase decision was the performance of the wheel loader in a one-week demonstration at the sand works.



## Two Generations Working Together

Müller und Töchter was founded in 1920 and is now a medium-sized company with 180 employees. In addition to the 11 quarries that Müller und Töchter operates, they have 85 trucks in their fleet to move all kinds of materials for their customers. The company is a successful and growing family business both in sand extraction as well as in transport or earthmoving. Müller und Töchter is managed by father, Georg Müller, who is actively supported by his two daughters Laura Müller and Bianca Müller.

Georg Müller comments: "It is fantastic how the two of them are involved in the company. That is no longer a matter of course in this day and age. I am really proud of them and don't have to worry about my succession in the company."

The company recently drew attention to itself when it was awarded second place in the economy category of the sustainability prize of the federal association, MIRO, for its washing plant. The latter is equipped with a sludge dewatering system for water recovery, which was developed entirely by the company's own employees.

For more on Doosan construction equipment, please visit the website: [www.eu.doosanequipment.com](http://www.eu.doosanequipment.com)



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# Switch to JCB Electric shreds emissions

**Shred Station has switched from diesel to electric for its brand-new fleet of JCB materials handling machines.**

The company - which shreds over 55,000 tonnes of paper per year - is replacing six of its diesel powered JCB Teletruk models with six new electric models. And by making the switch the company estimates it will save around 62,000 litres of diesel per year.

The leading shredding services provider has taken delivery of three of the JCB 30-19E electric Teletruk models at its Norwich site. The performance was so impressive that it immediately bought three more.

Supplied by dealer Watling JCB, the JCB 30-19E electric Teletruk will be used to transport bales of shredded paper around Shred Station's depot, stack them safely and maximise depot space. They are also responsible for loading the bales onto trucks ready to be transported to Shred Station's recycling facilities.

Shred Station's Norwich Warehouse Manager, Lloyd Quinton said: "At Shred Station, reducing our environmental impact is a key pillar of our ethos. We've been carbon neutral certified for four years now and we're always looking for ways to reduce our emissions even further. Our forklifts are running constantly, and as a result of that, use a lot of fuel. Making the switch from diesel models to the new electric models will not only save our diesel usage, it will also reduce our overall carbon emissions.

"There are many reasons the switch to JCB electric models makes sense for us. Firstly, they are better for the environment

and will help us to reduce our carbon footprint even further. Operationally, the electric Teletruk models are very similar to the diesel models which our warehouse operatives are already familiar with. We felt it was important for safety reasons to implement heavy machinery that our staff felt comfortable and confident to use. There is also the added bonus of less noise with the electric models too.

"We have always chosen JCB for our forklifts because we need our machinery to work dependably under heavy use. We move large paper bales around our depots all day, every day and therefore need forklifts that run like clockwork. The quality you get from JCB is absolutely the best. If we were to have forklift issues it would have a massive effect on our day-to-day operations, so using JCB gives us true reassurance of reliability."

In 1997, JCB developed a unique forklift truck with a telescopic boom instead of a conventional vertical mast. The JCB Teletruk provides unrivalled forward visibility, forward reach and large lift capacity, dramatically improving safety, while saving time, space and money. 11 models are available including LPG or diesel options plus the new electric 30-19E.

Shred Station is the world's largest independent shredding service provider and has been destroying confidential materials for over 14 years. While the company mostly destroys paper-based materials, other services include textile shredding, hard drive and media storage destruction, product shredding and much more. Shred Station's services are fully accredited, environmentally friendly, and nothing it shreds goes to landfill.



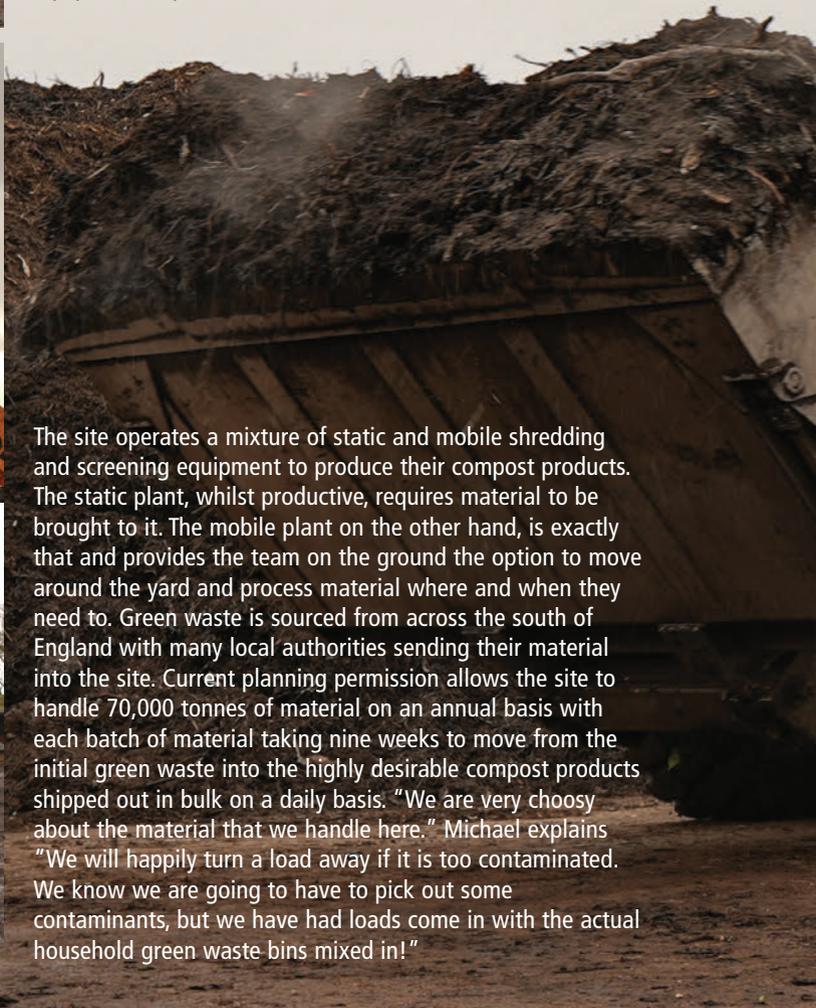
# Hyundai wheeled loaders prove themselves in the Waste Recycling Sector

**A native of South Africa, Jody Scheckter enjoyed success in Formula One between 1972 and 1980 and remains the only driver from the African continent to win the World Championship which he did in 1979 with Ferrari. On his retirement in 1980, he was snapped up for commentary work with various broadcasters including CBS Sports, ABC and ITV.**

Jody now spends his time as a biodynamic farmer having bought the 2,500 acres Laverstoke Park Farm, near Overton, Hampshire. Laverstoke Park Farm is now seen as the UK's premier producer of organic Buffalo Mozzarella, Ice Cream and a range of biodynamic sparkling wines. The farm's aim was to become self-sustaining and self-sufficient, producing the best produce available, the best-tasting, healthiest food, without compromise, and this is something they have achieved thanks to creating the most ideal, natural, healthy environment that will enable their animals and crops to thrive.

Whilst buffalo cheeses and sparkling wine are a major part of the farm's output, the production of high-quality compost is now a massive part of the drive to biodiversity for the farm.

Michael Kolinek is the farm's Managing Director and looks after both the production and composting facilities with his small, but very experienced and focussed team. "The 7-acre composting site is run by just three operatives. We like to try and keep our whole operation simple and cost effective." Michael explains "We also want the whole operation to be run as environmentally friendly as possible and this means using a combination of highly productive and fuel-efficient equipment as possible."



The site operates a mixture of static and mobile shredding and screening equipment to produce their compost products. The static plant, whilst productive, requires material to be brought to it. The mobile plant on the other hand, is exactly that and provides the team on the ground the option to move around the yard and process material where and when they need to. Green waste is sourced from across the south of England with many local authorities sending their material into the site. Current planning permission allows the site to handle 70,000 tonnes of material on an annual basis with each batch of material taking nine weeks to move from the initial green waste into the highly desirable compost products shipped out in bulk on a daily basis. "We are very choosy about the material that we handle here." Michael explains "We will happily turn a load away if it is too contaminated. We know we are going to have to pick out some contaminants, but we have had loads come in with the actual household green waste bins mixed in!"



To handle the huge amount of material, the farm has used a variety of loading shovels since they started, settling on Volvo machines for the last few years and still with a single machine in the fleet. But, following an open day held by Bristol based dealers Molson Green, part of the Molson Group, two years ago, a pair of Hyundai loading shovels have entered the fleet. "We looked at the loading shovel Molson brought to the open day and had the chance to use it for a week or so against the Volvos we had." Michael explains "We were very pleased that in the short time we could evaluate it, it outperformed our existing kit and used less fuel too. As we are constantly looking to reduce our operating costs, this was an eye-opener for us and as we were looking to start replacing our fleet, we started talking to Molson about taking the HL970 as a permanent fixture into the fleet."

The three loaders are all required to undertake the same work around the yard whether that is feeding the screening plants, moving the raw material to the windrows, or turning the windrows on a daily basis and are equipped with bespoke Ulrich toe-tip buckets to undertake this work.



The largest of the two Hyundais, the 24 tonne HL970 carries a huge 10m<sup>3</sup> bucket for quickly relocating the material from screener stockpile and during its first 12 months on site has performed exceptionally well according to Michael. "We have had no issues with the first machine at all, Sylwek likes the comfort and driving position far more than his old machine."

The second machine from the Hyundai stable is a new HL960AHDXT model. With an operating weight of just under 20 tonnes, the HL960AHDXT is the latest generation of StageV engined machines with a compact 6.7 litre Cummins delivering 168kW.

As a dedicated waste sector specification loader, the HD designation gives the HL960A more robust axles, additional under-body protection plates which are all removable for maintenance and an array of additional protection measures such as rear radiator guards, light cluster protection, bucket cylinder protection and windscreen guarding. The XT part of its name relates to the additional load-over height from the machine's longer arm set-up and gives an increase in load-over height from the standard arm configuration of 430mm.

The HL960A carries a similarly manufactured Ulrich toe-tip bucket but this time with a smaller 6m<sup>3</sup> capacity. "The smaller bucket is ideal for loading some of the smaller mobile screening equipment we have on site." Michael explains "Our regular operator of this machine, Przemek, loves the new cab. It's very quiet, comfortable and the view from the seat is added to by the addition of Hyundai's AAVM 360° camera system."



Not only has the addition of the Hyundai wheeled loaders enhanced the operator's working days, but they have also decreased the composting side of the businesses fuel use. "We are using at least 10-12% less fuel per day with the Hyundai shovels." Michael comments "Over a three-year operating life, that will add up to a huge saving for us. We are also benefitting from less downtime too as the Hyundais are far more reliable than our other shovels were." On the subject of increased uptime, Michael and his team report that whilst the shovels have been totally reliable, when they have required a tweak or servicing, Molson have been on the ball.

# How innovation is reshaping what's possible with metals recycling



**According to the British Metals Recycling Association (BMRA), 12 million tonnes of metal are recycled in the UK every year.**

**In fact, the scrap market represents one of the most established 'circular'**

**concepts to exist in the material recycling industry - smelting old metal to manufacture new. But that doesn't mean waste contractors must be reliant only on traditional handling techniques and conventional recycling machinery.**

**The technologies and equipment available have significantly evolved over the years - changing the face of what is possible for operators.**

Gary Moore, sales director at UNTHA UK, explores this topic in greater depth.

### **An evolution of metal recycling technology - and sector mindset**

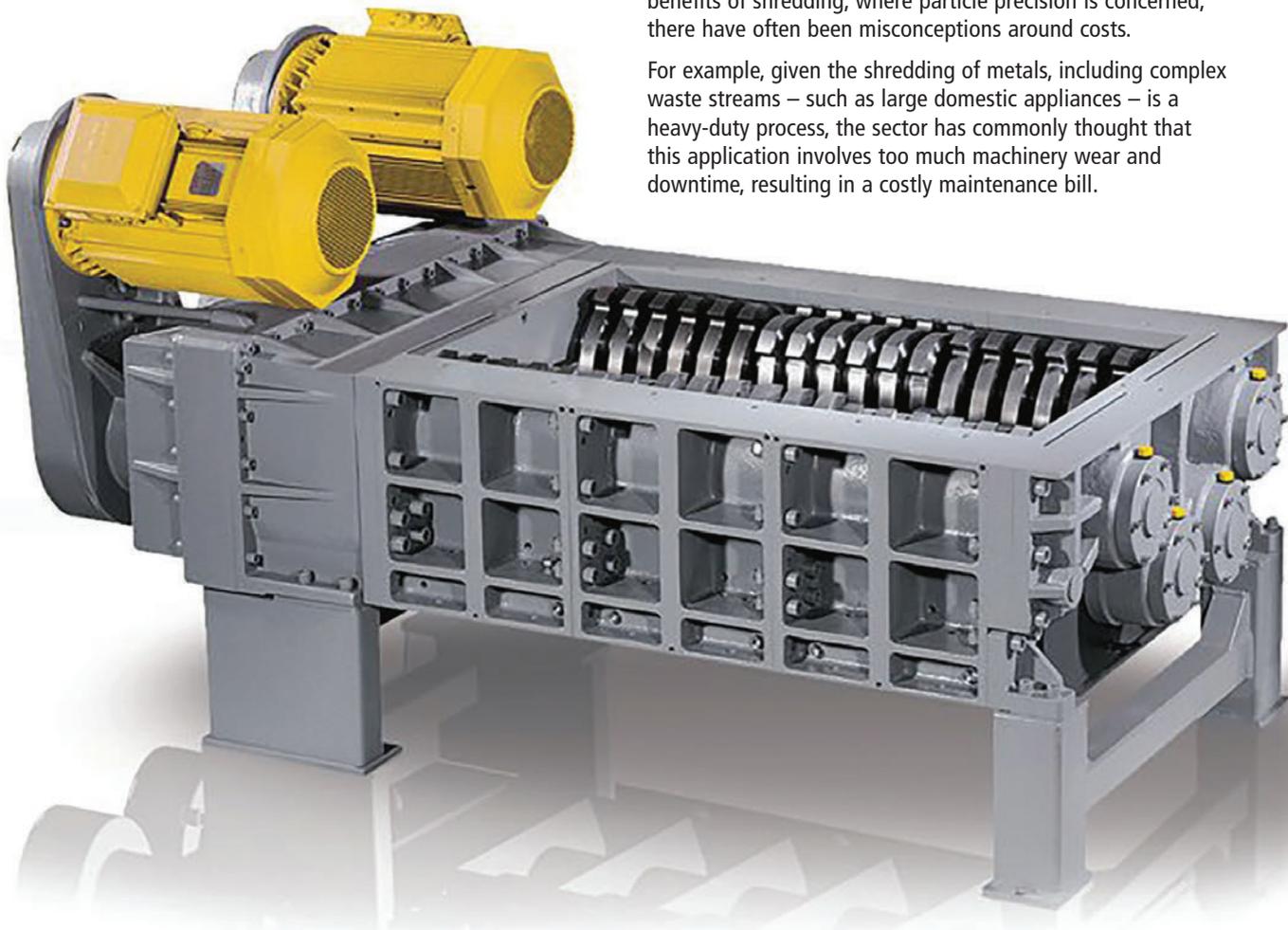
Many operators are aware of the often-valuable resources 'locked inside' certain waste streams, but the fact these materials are traditionally difficult to liberate means that they can sometimes be a less appealing recycling focus. However, while they may once have been considered tricky to process, they can now be handled with relative ease, thanks to technological innovation.

Traditionally, hammer mill technology is what has been utilised to reduce feedstock size, and this type of equipment is still widely used by many businesses. However, while it may 'do the job', there are many drawbacks in the form of noise pollution and dust generation. It is also trickier to ensure particle precision, given the technology is rudimentary in its nature.

And given how much innovation has taken place, since this technology was first invented, it is important to ensure the industry is aware that other – often more efficient and economic – options also exist.

Historically, while operators may have been aware of the benefits of shredding, where particle precision is concerned, there have often been misconceptions around costs.

For example, given the shredding of metals, including complex waste streams – such as large domestic appliances – is a heavy-duty process, the sector has commonly thought that this application involves too much machinery wear and downtime, resulting in a costly maintenance bill.





But as innovation has accelerated, modern-day shredding equipment has helped to eradicate this perceived objection – proving it is cost-effective, easy to maintain, and with high uptime.

Shredding large and small domestic appliances helps break down the 'waste' into its component parts, so that the various ferrous and non-ferrous metals, precious material, and plastic can be liberated. Downstream separation equipment is then better able to segregate these clean, high-value material streams with ease, for onward recycling and remanufacturing. The result is a more commercially and environmentally robust operation.

Ultimately, failure to look beyond the traditional, more cumbersome pieces of equipment means that ever-smarter sorting, grading, separation, and size-reduction technologies are being dismissed.

### **What should operators be looking out for?**

The industrial shredding landscape is forever moving at pace, and it can be difficult for operators to know what model and features they truly need for their business.

One thing to bear in mind, whether a seasoned shredder operator or new to the concept entirely, is that low speed and high torque are vital for optimised metal processing.

These innovations mean the shredding machinery is purposefully engineered to get through the material with the same throughputs as a higher speed equivalent, but with less downtime. As a result, the equipment is not having to work as hard to tackle the tough applications – creating less wear and reducing the risk of machine damage, not to mention unexpected breakdowns.

While robust four shaft shredding equipment – with a screen to regulate output particle homogeneity – is often the 'go to' choice when processing metal applications, UNTHA has different machines which suit operators' varying applications and volumes.

From our RS series – that has been around for over 50 years – to the newer single-shaft XR and ZR technologies, our continued commitment to machine innovation has evolved to further change the face of what's possible.



This means that with the right shredding kit in place, it is possible to enhance the efficiency, sophistication and potential revenue yield of metal recycling lines, through the improvement of metal recyclate quality.

Ideally, the machine should be high torque and slow speed, for reduced dust, low wear, increased uptime, and added efficiency. Typically, such technology can be found in compact models for light e-waste such as computing hard drives, through to much larger alternatives for heavier duty applications.

### **Looking ahead to the future of metal recycling**

While industrial shredding won't always be required to support the metal recycling process, by harnessing such innovative technology, operators cannot only make their operations more efficient, but they can also liberate the valuable materials that were previously 'locked inside' certain waste streams.

And for those who want to reap maximum environmental and bottom-line benefits, it is worth examining how such equipment could contribute to driving further progress forward throughout the industry.

# Zixtel Ltd evolves with Bunting's Eddy Current Separator

**The Zixtel evolution began in the midst of the global pandemic in 2020, when the company changed their focus to recycling and purchased the Bunting Metal Separation Module. Zixtel Ltd have since developed a reputation for metals recovery from a wide range of waste electrical and electronic equipment (WEEE) and waste discarded by other recycling companies.**



Metal Separation Module at Zixtel



Permanent Suspended Magnet

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

Zixtel Ltd, under the name of Advanced Digital Dynamics, was founded in 1997 to deliver IT and recycling solutions for businesses of all kinds, both locally and globally. This included buying and selling refurbished IT equipment and being an Approved Authorised Treatment Facility (AATF). From their recycling facility in Wetherby, UK, the company provided services for data destruction and disposal, recycling and refining. Continued expansion and growth resulted in the business being renamed Zixtel in 2019.

The difficulties arising from the pandemic inspired Zixtel's management team to focus on their recycling capabilities. The company's objective was to recycle WEEE and other

company's waste products, and eliminate or, where no further processing was possible, minimize the amount of waste for landfill. End markets were identified for all recovered materials, including metals and plastic.

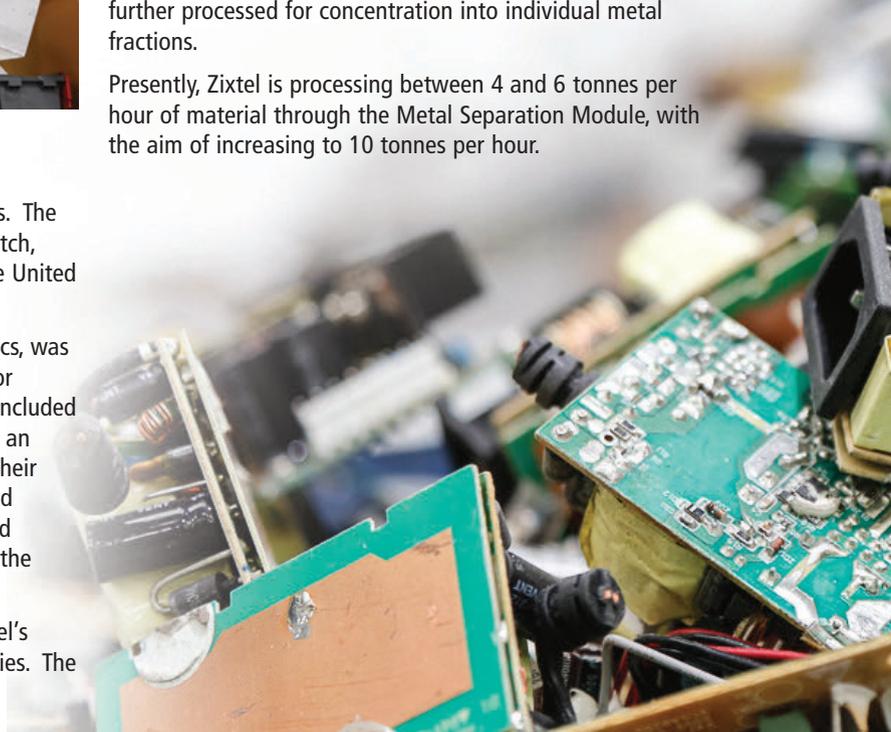
Zixtel's engineering team designed and built a recycling plant, which included a Metal Separation Module from Bunting. The Module included a high-intensity Drum Magnet for separating weakly magnetic materials and an Eddy Current Separator to recover non-ferrous metals.

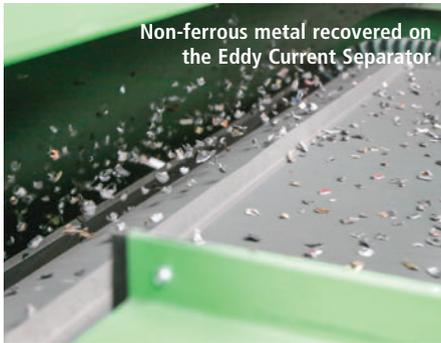
Early in the plant design process, Zixtel identified the necessity of tight particle size control for optimum separation. In the plant, material initially passes through Untha shredders to liberate recoverable materials. The shredded material then passes up a conveyor and under a Bunting Permanent Overband Magnet, positioned in-line over the head pulley. Larger ferrous metal is lifted from the conveyor and discarded into a designated collection area. The remaining mix of non-ferrous metal and non-metallics feeds via a conveyor onto the primary Vibratory Feeder of the Metal Separation Module.

The Vibratory Feeder spreads the product mix across the whole one-metre width and onto the rotating shell of a high-intensity Rare Earth Drum Magnet. Small and weakly magnetic metals are removed leaving a mix of non-ferrous metals and non-metallics to fall onto a second Vibratory Feeder, which evenly delivers the material onto the belt of an Eddy Current Separator.

The Eddy Current Separator is a conveyor system with a head pulley which has a high-strength magnetic rotor spinning at high speeds within a non-metallic shell. As the belt conveys material into the changing magnetic field, non-ferrous metals become charged with eddy currents causing a reaction that propels the particle out of the product stream. This enables the recovery of valuable aluminium, copper, zinc and other such non-ferrous metals. The non-ferrous metal fraction is further processed for concentration into individual metal fractions.

Presently, Zixtel is processing between 4 and 6 tonnes per hour of material through the Metal Separation Module, with the aim of increasing to 10 tonnes per hour.



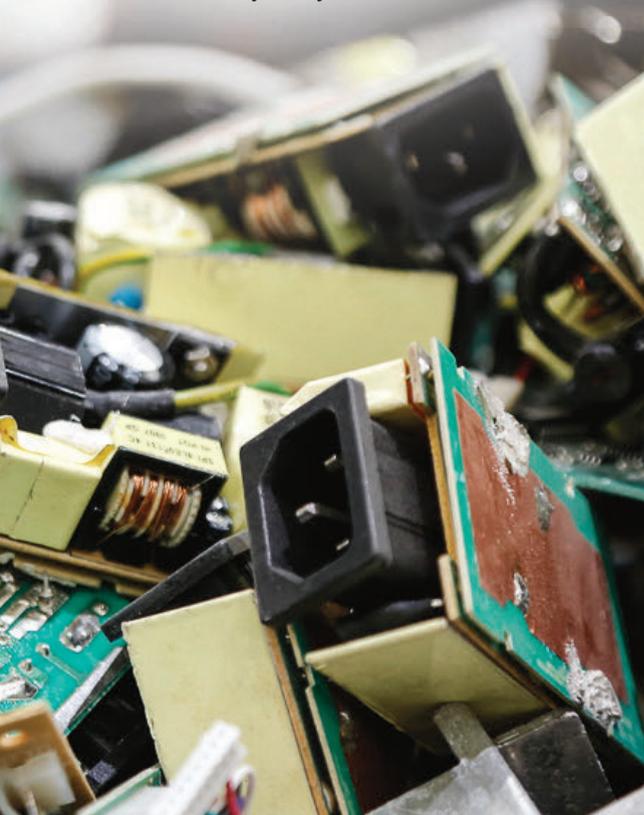


With the existing process, Zixtel presently handles in excess of fifty different product streams. The material output of the plant is 70% metal, 25% printed circuit boards and plastics, 5% destined for an energy-to-waste plant, and 0% to landfill.

Since 2020 the recycling plant has evolved with additional particle size reduction and separation stages included granulators, air separators, and optical sorting. There are plans for additional process plants to recycle specific waste materials.

"The Zixtel plant is a great example of British recycling innovation excellence," said Tom Higginbottom, Bunting's Sales Engineer. "We [Bunting] have been fortunate enough to be part of the development of an incredible recycling success story. Zixtel continually push the separation capabilities of our Eddy Current Separator to the maximum and we continue to work with them by testing new waste fractions on our metal separators at our Recycling Test Centre in Redditch."

WEEE recycled by Zixtel



## Hiab forges strong relationship with waste management company



**World leading provider of on-road load handling equipment, Hiab, has become the go-to provider of loading equipment for Leeds-based waste management and recycling company, Forge Recycling.**

Following a successful period of expansion, Forge Recycling recently invested in two brand new pieces

of kit from Hiab – a Ultima 24S hookloader fitted to a DAF CF and a Futura FTR12 skiploader fitted to a DAF LF.

The new equipment joins the company's already 30-strong fleet of vehicles, with the Futura FTR12 skiploader aiming to bolster Forge's in-demand domestic skip service and the Ultima hookloader to support its waste management operation for its commercial clients.

Managing director of Forge Recycling, Harvey Mills, commented: "We first purchased a piece of Hiab kit in 2017 and in the years that followed we have gone on to buy a further five pieces from them, which I think speaks for itself. The product quality, high-spec features and value for money are simply undeniable and unmatched."

The MULTILIFT Ultima 24S hooklift is a sliding hooklift with 24 tonne capacity for 4 axle trucks. Hiab's Sequence Performance™ technology enables automatic sequence control via a single lever movement for loading, unloading and tipping.

The MULTILIFT Futura 12 skiploader meanwhile, ensures durability, professional aesthetics, top performance and safe, simple and efficient operation.

Dek Butler, MULTILIFT specialist for Hiab UK added: "Harvey and the Forge Recycling team are incredibly valued customers of ours and we're delighted to see their business thriving and our equipment being able to support that journey.

"The MULTILIFT range offers more than powerful lifters – is a collection of equipment built to perform swiftly and precisely using the latest smart technology to exceed safety standards and productivity expectations."

## QM&S design and supply a new Radial Stacker Conveyor for Hanson Aggregates

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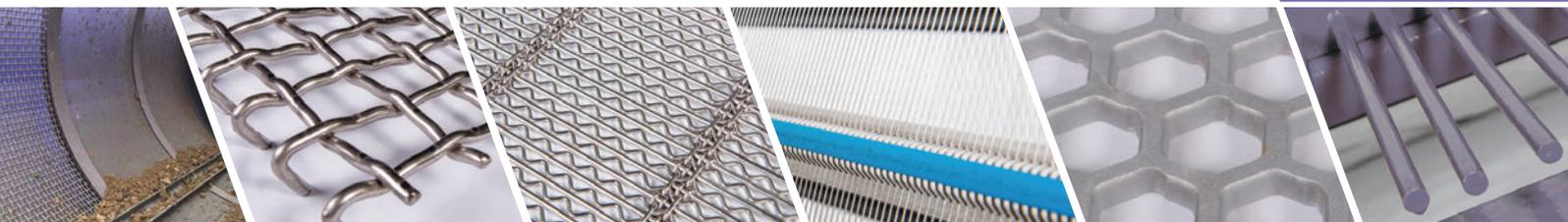
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**RECYCLING** - Open topics for this issue  
**BULK HANDLING** - Open topics for this issue

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# SORT SHRED CRUSH SCREEN



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