

CONCRETE
FEATURE
& RWM
PREVIEW

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

July/August 2025 | Issue 93

QUARRYING RECYCLING BULK HANDLING
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When unplanned downtime isn't an option, customers around the world turn to CMS Cepcor for trusted, high-quality crusher spares and precision-engineered solutions. In this case study, we explore how CMS Cepcor partnered with a mining customer in North-West Africa to overcome critical challenges, improve equipment reliability, and deliver measurable results. From specialist repair capabilities to expert maintenance and technical support, this is a story of partnership, performance, and industry-leading service. >

Why CMS Cepcor?

The copper-mining customer approached the regional sales team for refurbishment of an old used Topshell and Spider they had on site, with a view to having them refurbished and available as rotatable spare assemblies to minimise downtime for their Svedala 42x65 Primary Gyratory. Rotable solutions are becoming a keystone of what CMS Cepcor can offer, providing a quicker, more efficient and safer way to re-line. Complete topshells are removed and liners changed off-site – minimising risk and reducing field-based tasks. This in turn reduces downtime and optimises the entire refurbishment process.

This wasn't a test case either; CMS Cepcor are highly experienced in streamlining preventative maintenance, and had also previously undertaken similar works to this customers' operational components – successfully carrying out repairs to the exacting standards of OEM specifications. The scale and scope of the project also played to CMS Cepcor strengths – as there were limited crusher specialist companies able to handle the sheer size and weight of the components involved, both in terms of logistics, workshop operations and engineering expertise.

Repair process

The 43-tonne consignment of both the Topshell and Spider arrived at CMS Cepcor Head Office in Coalville, Leicestershire and a full dimensional inspection was carried out utilising FARO coordinate measuring equipment and 3D scanning determine full scope of work and definitive costs.

The Topshell and Spider were then shotblasted and NDT tested prior to commencing repair, with an NDT report provided to the customer at this stage. Following this, the Topshell 5 degree tapers, flange faces and concave seating bands were pre-machined, then overlayed with weld in the workshop on a column and boom welding turntable. Tapers, flange faces and seating bands were finish machined to exacting OEM specifications.

Next up, the Spider 5 degree and spider bush bore were pre-machined ready to be overlayed with weld – and the Elongated 2 1/2" UNC spider stud holes were over-bored ready

to accept specially manufactured inserts (an engineered repair solution). Then it was back on the turntable for welding the 5 degree taper and spider bush bore ready for machining – ensuring welded taper and bore were also finish machined to OEM specifications. Engineered inserts were then fitted using cryogenics and were subsequently drilled and tapped.



The Project in Numbers...

During the repair process, more than 1.5 tonnes of welding wire was laid down to achieve required stock for finish machining to required tolerances. In addition, there were 580 hours of welding and 400 hours of machining.

The Topshell and Spider were then repainted and prepared for return shipping to the customer.

The project was completed at a quarter of the cost compared to buying new replacement parts and with an industry-beating turnaround time.

To discuss a better way to maintain your crushing capabilities, reduce unplanned downtime and beat the clock on repair and refurbishment, speak to CMS Cepcor today – The Crusher Parts Specialist.

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In this issue

FEATURED STORY	3
COVER STORY	8
NEWS	12
RWM PREVIEW	17
RECYCLING	24
CONCRETE	35
ASPHALT	45
QUARRYING	47
BULK HANDLING	54



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Welcome to issue 93

Welcome to the fourth edition of 2025 - issue 93.

In this fourth issue of our bi-monthly magazine the team at Hub-4 present you with another bumper edition reporting on the latest news from the Quarrying, Recycling & Bulk Handling Industries, including a spotlight on **Concrete** and **Asphalt** and a preview of the **RWM show**.

Onwards into 2025:

If you're starting to look at marketing in the second half of 2025 our new media file with feature list can be found here, either PDF download or page flip version: <https://hub-4.com/pages/advertise-with-us>

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

Our increasingly popular social media packages are also available across our X, 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 fourth edition of 2025 will focus on **MRFs and Associated Equipment**.

I welcome any editorial contributions for this issue.

John Edwards
Editor

SEPT | OCTOBER 25



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

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Published six times a year.

Frano AS and Tyrone International Partner to Revolutionize Oslo's Recycling with Advanced C&D Wash Plant

Introduction:

Oslo is poised to become a leader in sustainable waste management, thanks to a groundbreaking partnership between Frano AS and Tyrone International Ltd. The two companies are collaborating to deliver a state-of-the-art Construction and Demolition (C&D) waste recycling wash plant. This impressive project will process contaminated materials, driving the circular economy and helping Oslo meet its ambitious environmental goals. The first phase of the plant, with a capacity of two hundred tons per hour, has now been successfully commissioned, marking a significant step forward in the region's commitment to sustainability.

The Partnership: A Vision for a Circular Oslo

Frano AS, a leading Norwegian waste management company, recognized the need for a robust solution to process the increasing volumes of C&D waste generated in the Oslo region. With a strong commitment to environmental responsibility, Frano sought a partner with the expertise and technology to deliver a world-class recycling solution. Tyrone International Ltd, an Irish company renowned for its innovative aggregate washing solutions, emerged as the ideal partner. Together, they embarked on a project that promises to transform the way C&D waste is managed in Oslo.



The Wash Plant: Cutting-Edge Technology in Action

The C&D waste recycling wash plant incorporates the latest technology from Tyrone International to effectively scrub, clean, and separate the materials, even when contaminated with

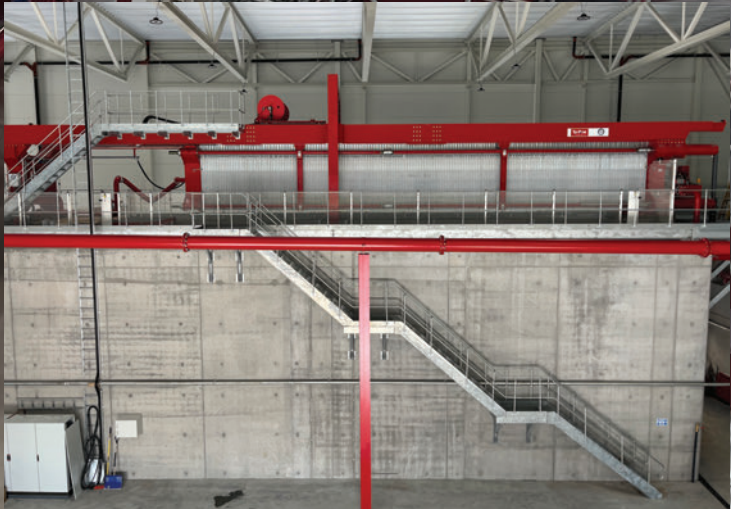


hydrocarbons and heavy metals. The plant is being delivered in two stages. The initial phase, now operational, has a processing capacity of two hundred tons per hour. Upon completion of the second phase next year, the plant will reach its full capacity of four hundred tons per hour, significantly increasing Oslo's recycling capabilities. The plant is designed to produce high-quality fine sand, coarse sand, and three distinct sizes of clean aggregates, all suitable for various construction applications.



Key features of the plant include:

- **Robust Washing System:** Effective scrubbing and cleaning technology to remove contaminants from the C&D waste.
- **Precise Separation:** Advanced screening and classification equipment to separate the materials into distinct product streams (fine sand, coarse sand, and three aggregate sizes).
- **Ease of Maintenance:** A key design emphasis on accessibility around the plant to simplify servicing and maintenance operations, ensuring minimal downtime.
- **Cold-Weather Protection:** The entire wash plant is housed within a large building, providing protection from the harsh Norwegian winters, where temperatures can plummet to -25 degrees Celsius.
- **Cold-Weather Stockpiling:** The stocking conveyors for the sand and aggregates are specifically designed to operate reliably in these extreme cold conditions. They are fully galvanized, feature walkways for easy access, and include removable covers over each conveyor belt to protect the materials and equipment.
- **Large Stockpile Capacity:** The plant boasts impressive stockpile capacities, with 3500 tons allocated for each sand product and 6500 tons for each aggregate product.
- **Optimized Site Integration:** The plant has been skilfully integrated into a large quarry, utilizing the natural ground levels to maximize the stockpile capacities for the aggregates.
- **Advanced Water Treatment:** The integrated water treatment plant features a heavy-duty thickener to produce a high-density sludge for the filter press. The large twin overhead beam filter press includes access around all sides and the top and is equipped with a fully automatic wash system to maintain clean filtration cloths, ensuring optimal performance.







Driving the Circular Economy:

This project represents a significant step towards a circular economy in Oslo. The plant is designed to process substantial volumes of C&D waste, reducing the reliance on virgin raw materials and minimizing the amount of waste sent to landfill. The recovered aggregates can then be reused in construction projects, closing the loop and promoting sustainability.



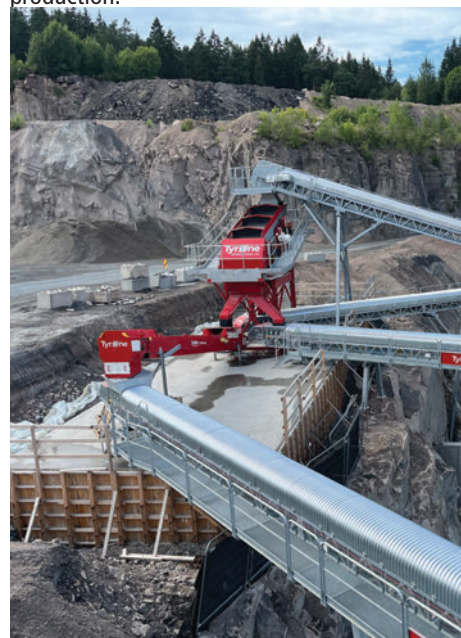
Sustainability Benefits:

The Frano AS and Tyrone International collaboration offers substantial environmental benefits for Oslo. By recycling C&D waste locally, the project conserves natural resources, reduces transport emissions, and helps customers meet the 30 percent environmental

and climate weighting required in public procurements. This initiative aligns with municipal and national climate goals, contributing to a more sustainable future for the region.

Kari Røseth, General Manager, Frano AS. "This has been a significant investment by Frano AS with our clear objective to provide sustainable resources for the Norwegian construction market. Working with the team at Tyrone has been very productive and together we have delivered a truly impressive project that will produce quality recycled aggregates for many years to come."

Fintan McKeever, Director, Tyrone International Ltd. "Our company is focused on the circular economy and offering innovative bespoke washing solutions to recover reusable aggregates from different waste streams. Washing provides the opportunity to recover and segregate materials from difficult waste streams that cannot be achieved by traditional dry processing systems. When Frano AS approached us with their requirements, we knew that we could offer a bespoke solution to maximise the recovery of aggregates and increase their product offering to the market." Our team has done an incredible job with the design and installation of this project, and we are looking forward to seeing the plant in full production."



Conclusion:

The Frano AS and Tyrone International C&D wash plant represents a significant investment in sustainable waste management for Oslo. By combining cutting-edge technology with a commitment to environmental responsibility, this project promises to transform the way C&D waste is processed in the region, creating a more circular and sustainable future.

Hitachi unveil the LANDCROS

Unveiled at Bauma 2025, the LANDCROS One from Hitachi Construction Machinery is a bold concept machine aimed at reshaping the future of construction. This next-generation excavator showcases a sleek, futuristic design and emphasises innovation in power, operability, and digital integration.

Developed in partnership with Granstudio, LANDCROS One plans to offer three adaptable powertrain options - electric, hydrogen, and diesel - enabling a flexible and sustainable operational experience.

Its modular cabin integrates AI-assisted interfaces and gamified controls and is designed to address industry challenges.



Industry Reaction & Press Highlights:

The construction community has been quick to respond to the LANDCROS One, with numerous publications highlighting its futuristic vision:

Awesome Earthmovers called the LANDCROS One a "striking vision of future excavation," noting the machine's seamless integration of technology, mobility, and operator adaptability. They remarked that the concept exemplifies where operator-machine relationships could evolve in the future.



Mostly Diggers praised the machine's aesthetic execution, emphasising that its bold and bright appearance, along with its innovative features like the rear-mounted drone and futuristic cabin, made it a conversation starter at Bauma. They noted its unique design and innovative approach to construction machinery.

Earthmovers Magazine referred to the LANDCROS One as "a radical step forward," noting how it doesn't just improve the excavator's capabilities but also redefines its very identity within the industry.

Lucas Haddock of Content Media highlighted that the machine is "made for the future," pointing out its innovative features, like the drone system that enhances operational visibility and job site awareness.

Demolition News stated, 'If this is the future, the future is going to look incredible thanks to Hitachi Construction Machinery'.

The LANDCROS One is not just a concept - it's a symbol of Hitachi's evolving vision, merging sustainability, digital ecosystems, and operator empowerment. Whether or not this exact machine sees mass production, it sets the tone for where the industry is headed and how manufacturers are preparing for the job sites of tomorrow.



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EDGE Innovate extends its line of screening solutions with the SCREENPRO S16

The SCREENPRO S16 is the latest addition to the SCREENPRO range from EDGE Innovate, following the successful launch of the larger SCREENPRO S18 in 2024. Building on the proven performance and robust design of its predecessor, the SCREENPRO S16 offers a more compact solution without compromising on efficiency or versatility.

Designed to handle feed capacities of up to 600 tph, the SCREENPRO S16 is ideal for mid to large-scale operations, delivering high production rates with precise screening. It features a 14m² screening surface, a wide oversize discharge conveyor, with adjustable screening angles from 14 and 20 degrees, ensuring both high throughput and exceptional product quality.

The SCREENPRO S16 incorporates a 4.9m X 1.5m (16' x 5') two-deck screen, with a heavy-duty feed hopper making it adept at both primary and secondary screening across a

variety of materials, from construction debris to aggregates and recycled materials. This versatility is further enhanced by a range of screen media options, including woven mesh, punch plate, finger screens, and bofor (grizzly) decks, allowing users to tailor the machine to different feed materials and final grain sizes.

To meet the demands of recycling applications, the SCREENPRO S16 can be equipped with both over-band magnets and magnetic head drums for the extraction and recovery of ferrous metals.

With intelligent load management, a low-level feed hopper, 2 or 3 way split configuration, hydraulic folding conveyors, and a fully integrated power unit with large service access; the SCREENPRO S16 is engineered for ease of use and maximum operational uptime. The user-friendly control system, featuring sequential start/stop functionality, enhances both performance and safety.





To ensure minimal downtime, the screenbox encompasses hydraulic lift-up functionality for a quick and efficient mesh exchange process, supported by full access walkways on both sides of the screen.

The EDGE SCREENPRO S16 also offers added remote functionality for improved operator efficiency and safety. All major functions on the S16 including tracking, feed conveyor speed adjustment, sequential start up and hopper jacklegs can be remotely operated from a safe distance of up to 100m or in the comfort of the operator's cabin.

Powered by either a Caterpillar Tier 4 Final / Stage V engine, the SCREENPRO S16 drive system provides the operator with a reliably, durable and fuel-efficient screening solution. In line with EDGE Innovate's commitment to sustainability, the SCREENPRO S16 and S18 models are available with dual power and electric hybrid drivetrains for CO2 emission-free operation.

As the second product to be released in the SCREENPRO range, the SCREENPRO S16 offers the same level of reliability and innovation that EDGE Innovate customers have come to expect, now in a more compact form that meets the needs of diverse screening applications.

Steven Conway, EDGE Innovate Territory Sales Manager – "During the research phase, we engaged closely with our distribution network to discuss specifications and the core requirements for our customers. I believe we've successfully designed and launched the SCREENPRO S16, which we feel is a robust, reliable, efficient, and is user-friendly. It's also very easy to service, maintain and transport—features that we see as core requirements for any customer in the quarrying and recycling industries"

"EDGE Innovate will continue to widen our product offering through the SCREENPRO range, allowing EDGE to meet the varying applications and budgets of our customers. The SCREENPRO S18 and now the newly revealed S16, illustrates our commitment to innovation. Expect to see future editions to this range in 2025 as the EDGE team continue to enhance our SCREENPRO offering".





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Our proven wet processing solutions recover maximum value from challenging waste streams and give you the power to divert tonnes of waste from landfill.

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Middleton Engineering returns to RWM with Innovation, Experience and a Renewed Customer Focus

Middleton Engineering is proud to confirm its return to the UK's leading waste and recycling event, RWM Expo 2025, after more than a decade away from the exhibition circuit. With over 50 years of experience in manufacturing robust recycling equipment, we are re-engaging with the market at a pivotal moment for the industry – one defined by demand for automation, reliability, and long-term partnership.

The RWM Expo, taking place on 17–18 September 2025 at the NEC Birmingham, provides an ideal platform for Middleton Engineering to reconnect with existing customers, welcome new ones, and demonstrate how our UK-built solutions continue to lead in quality, performance and service support.



Putting Engineering Back in the Spotlight

Returning to RWM is more than a symbolic move — it reflects a deliberate commitment to growing our customer base and rebuilding relationships with operators, councils, processors and waste contractors who know the value of reliable equipment backed by experienced engineering.

At Stand ME B282, Middleton Engineering will present our latest baling solutions alongside a refreshed aftersales offering. Whether it's building brand-new systems, integrating automation into existing plants or providing trusted support for legacy machinery, we bring practical solutions that meet the real-world challenges of today's recycling environment.

Total System Solutions – Manufactured Under One Roof

One of the key advantages that sets Middleton Engineering apart is our ability to manufacture almost all elements of our equipment and plant systems under one roof at our Somerset facility. We are one of very few UK manufacturers that can say this with confidence.

By keeping our manufacturing, design, and engineering processes entirely in-house, we significantly reduce dependency on external supply chains, allowing us to maintain tighter control of quality, cost, and project timelines. This approach also gives our customers direct access to the people who design and build their equipment, ensuring faster response times, better collaboration and on-time delivery.

We offer full design and build capabilities for MRFs (Materials Recovery Facilities) as well as complete C&D (Construction & Demolition) and C&I (Commercial & Industrial) recycling plants — delivering turnkey systems tailored to individual site layouts, material streams and processing targets.



Designed for Efficiency and Longevity

In an industry where uptime is everything, Middleton Engineering supports operators through four key pillars:

- **Automation Integration:** Modernising plants with bespoke automation solutions that enhance throughput, reduce manual handling and extend system performance.
- **High-Performance Balers:** Built to last and easy to maintain, our range includes semi-automatic and fully automatic systems capable of handling a wide variety of waste streams.
- **Comprehensive Aftersales Support:** From preventative maintenance contracts to rapid-response service, our team supports systems long after installation.
- **Spare Parts Supply:** We stock and supply genuine Middleton parts, along with compatible spares for many competitor machines, delivered quickly to minimise downtime.

A Message to the Market

Our return to RWM signals our commitment to re-engage with the sector, build new relationships, and reconnect with long-standing customers. We look forward to discussing how Middleton Engineering can help you optimise performance, reduce downtime and future-proof your operation.

**Visit Us RWM Expo 2025
17-18 September 2025
Stand ME B282**

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RWM: Evolving with the Industry, supporting those who shape it.



Over the years, RWM has firmly established itself as one of the UK's key exhibitions for the waste, recycling, and resource management sectors. And rightly so. The event has evolved to reflect the priorities of the industry it serves, from policy and innovation to infrastructure and circularity, all while retaining its energy and practical focus.



We've had the privilege of supporting multiple clients at RWM over the years, and we'll be doing the same again in 2025. Whether they're exhibiting, attending, or looking to grow their presence in the sector, we work alongside them to make sure they're visible, confident, and set up to achieve what they need from the event.

Our support might look different depending on the client, from designing engaging exhibition spaces that reflect brand personality, to managing logistics and activation plans that allow them to focus on conversations, not complications. But the goal is always the same: to help them connect with their audience in the right environment.

What's impressive about RWM is how it continues to adapt. It's not just a place to show off kit (though there's plenty of that too). It's where businesses come to talk policy, share innovation, and figure out what the future looks like for the sector. From net zero to the economy, the key issues are front and centre and the event feels designed to encourage those discussions in a productive, practical way.

Its location at the NEC plays a big part in that. The accessibility, the scale, and the flexibility of the space make it possible for everything from large machinery demos to focused panel sessions to sit under the same roof. That mix of hands-on activity and meaningful dialogue gives RWM its edge.

It's also a great reminder of what good events can do: bring the right people together, in the right space, with a shared focus. That's why we continue to champion shows like this, and why our clients see real value in showing up, not just physically, but with purpose.

We know from experience that success at events like RWM doesn't just happen. It takes planning, creativity, and a clear understanding of what the client wants to achieve. It's a collaboration, between our team, our clients, and the wider network of suppliers, organisers and industry partners working hard to deliver something valuable.

So, while we're not ones to shout about ourselves, we are proud of the role we play in helping organisations show up well, and of the relationships we've built along the way.

ERF quadruples conveyor runtime by installing STARCLEAN® belt cleaners from ProSpare

An Energy Recovery Facility (ERF) operated by Encyclis conveys incinerator bottom ash (IBA) via two alternating streams of belt conveyors. When one stream is in use, the other is available for maintenance and housekeeping by the on-site contracted company.

IBA can be extremely difficult to handle due to its complex composition of materials such as; glass, metal and unburned residual waste. The troublesome material, coupled with ineffective belt scrapers on the conveyors, resulted in significant carryback problems – particularly on and around the head drum.

The carryback problem limited how long a conveyor stream could operate for before intervention was required and, resulted in the streams being switched prematurely every 3-4 days to allow for maintenance. It would then take the

contractors 4 full days following every change to remove the IBA carryback from around the head drum, under the belts and the adjacent walkways.

To solve the problem, the Maintenance Manager contacted ProSpare.

To combat the high levels of carryback and the effects of the abrasive IBA, two STARCLEAN® belt cleaners were installed on each of the 4 belts. The primary cleaner was specified with tungsten carbide 286nl blades, with a protective apron over the mounting feet to prevent premature wear. For the secondary cleaner, heavy duty 09hm tungsten carbide blades were selected and fitted to a reinforced blade base to tackle the remaining fines.

The maintenance manager was delighted with the results. Previously, each stream would run for 3-4 days before being switched prematurely. With STARCLEAN®, each stream now runs for



2 full weeks. The on-site team only switch streams, by choice, for regular housekeeping and as part of planned preventative maintenance.

Furthermore, cleaning times have been reduced from 4 days to 2 days across both streams – a 50% decrease. The amount of carryback reported has also more than halved.

To read the full case study, or for more information on STARCLEAN®, visit <https://www.prospare.co.uk/>



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NEC, Birmingham



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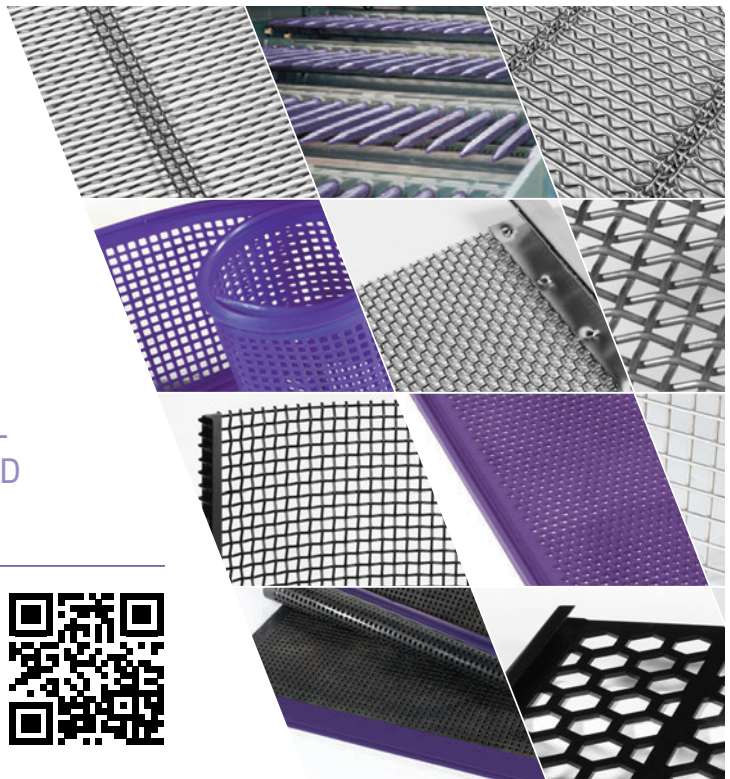


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Accelerating the Circular Economy - STEINERT's Proven Technologies drive higher recycling rates



The upgrade to 11 t/h throughput makes the STEINERT PLASMAX | LIBS an absolute benchmark for sorting aluminium alloys. Photo: STEINERT

With increasing pressure on the UK's recycling industry to achieve higher recovery rates and meet sustainability targets, STEINERT's proven technologies offer practical solutions that enhance operational efficiency.

MSort technology: Effective throughput for plastics, metals, and glass recycling

Since July 2024, STEINERT has expanded its product line with the MSort technology, providing efficient sorting capacities for essential material streams. The MSort systems reliably deliver improved throughput rates for plastics and metals and efficiently sort glass—addressing multiple key recycling priorities simultaneously.

Global success and new performance milestone for the STEINERT PLASMAX | LIBS

Introduced at RWM 2024, the STEINERT PLASMAX | LIBS has quickly become widely adopted and further advanced technically. Now featuring a working width of one metre, it achieves throughput rates of up to 11 tonnes per hour—setting new standards in high-purity aluminium scrap sorting.

The system separates aluminium scrap efficiently into three distinct quality categories in one processing step. Its multi-spot laser analysis ensures consistent accuracy and reliable sorting performance.

Enhanced ferrous processing with STEINERT UMP Multipol

The STEINERT UMP Multipol improves ferrous concentrate quality by effectively removing non-magnetic contaminants through alternating magnetic poles, resulting in purer non-ferrous fractions and reduced copper losses during WEEE processing. Already successfully established, this system continues to drive higher recycling rates.

Advanced AI sorting with UniSort PR: Facilitating food-grade recycling

The UniSort PR addresses challenging sorting tasks such as separating food-grade PET containers (e.g., trays) from non-food PET bottles to produce high-quality recyclate suitable for food-contact applications. Using the Intelligent Object Identifier (IOI), this AI-driven solution leverages sophisticated pattern recognition to identify complex materials beyond traditional NIR technology.

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ESS Expo: RWM Stand ME-B254 and
CARS Stand CAR-D324**



We build the World's Toughest Recycling Plant

In today's demanding waste and recycling sector, operators face stricter regulations, tighter purity targets, and the need for continuous uptime. That's why more companies around the world choose Kiverco. We design and build the world's toughest recycling plants, delivering more uptime, higher sustained purity, and longer useful life.

For over 30 years, we've engineered recycling plants that outlast and outperform the competition, providing some of the most sustainable and cost-effective solutions on the market. Built to withstand the toughest environments, our systems ensure consistent, high-quality output.



At Kiverco, we know that in recycling, purity means profit. Our systems are built to separate materials with precision, helping our customers recover more value from every tonne of waste processed. By working with industry-leading technology partners, we incorporate the latest

innovations in sorting and recovery.

Modular design allows for easy expansion and adaptation to evolving market needs, whether that means boosting capacity or integrating new technologies. Less downtime means lower maintenance costs and a better return on investment.

Every Kiverco plant is designed to meet your specific needs. From consultation and design through to installation and aftercare (Kivercare), we provide a bespoke solution backed by expert support. As environmental targets become more ambitious, we continue to lead through innovation.

We'll be exhibiting at the RWM Show in Birmingham, stand ME-D200. Stop by and discover why we build the world's toughest recycling plant.

Elite Precast Concrete make bay-building easy

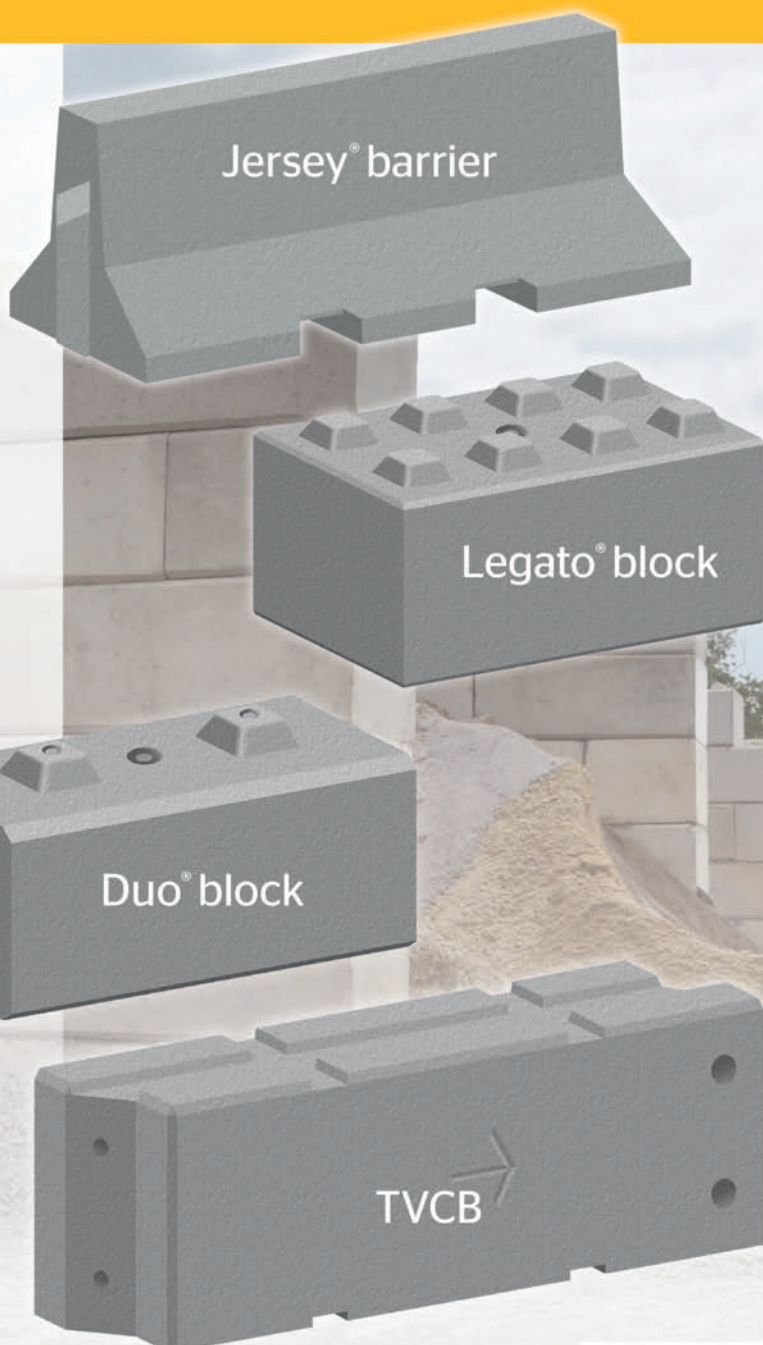
Elite are the UK's premier manufacturer of the revolutionary Interlocking Block System as used throughout the UK in a wide variety of applications.

The blocks are excellent in many varied applications and provide a more simple, robust and cost-effective solution than conventional L or A-shaped thin-walled panels.

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Compliance from Training and Qualifications Experts - Certora Training



Certora Training are back at RWM 2025 - the UK's leading waste and resource management exhibition - to support visitors with all their competence and compliance needs. The Certora team will be on hand to answer any questions regarding the most appropriate training and qualifications required to meet the environmental permitting rules and regulations for any business with a recycling and waste management operation.

If you are responsible for health, safety, compliance or training and you plan to visit the 2-day event at the NEC, stand **RS-H110** is certainly one to visit.

Training and qualification services may not be seen as exciting as product launches, but the Certora team live and breathe all things compliance. They are renowned for their first-class customer service and experience in the industry. Their expanded catalogue of equipment operator training courses and industry specific qualifications, including their fully developed Continuing Competence Preparation E-Learning course, makes them a central hub for industry training.

Testimonial "Certora has become an integral partner in supporting our operations with Mobile Plant Training. Their nationwide coverage has been invaluable for our operations, and they are consistently delivering quality training, providing essential knowledge and skills to our team. What sets them apart is their ability to manage the entire training process from start to finish. Their responsiveness and support is excellent."



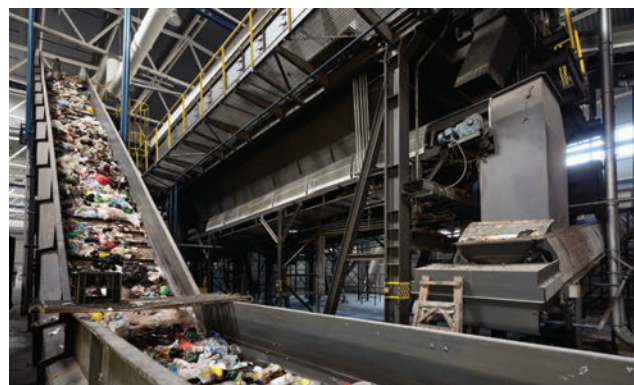
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Certora are members of and accredited by many of the UK's leading accrediting and membership bodies including CIWM, IPAF, PASMA, AITT, LANTRA, EUSR, MPQC, NPORS, Achilles and WiredGov.

Their equipment operator training courses range from Mobile Plant to Working at Height, Forklift Trucks to Slings and Lifting, Abrasive Wheels to Access Platforms.

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Are you taking your Continuing Competence test in 2025?

Pass your Continuing Competence touch screen test with confidence with the help of Certora's Continuing Competence Preparation E-Learning course!

This revision e-learning course allows technically competent managers (TCMs) to refresh their knowledge prior to sitting their Continuing Competence test at a Pearson Vue centre.

This CIWM approved modularised course offers flexibility for learners, so they can complete it around their busy shifts.

Written around the syllabus of the Continuing Competence test, the course provides key updates on the generic elements (Health and Safety, Legislation and Environmental Protection) as well as site-specific activities such as Landfill Closed, Anaerobic Digestion, End of Life Vehicles and much more.

This interactive course includes a variety of activities and interactive quizzes to help reinforce knowledge with practice questions to help prepare for the COTC Test.

Visit Certora on stand RS-H110 to discuss your training requirements.

C H Middleton invest in a Terex® Ecotec Waste Handler again!



Doncaster based waste specialist C H Middleton Ltd [CHM] have invested in another Terex® Ecotec TWH 220 Waste Handler which has again been supplied by the UK dealer Warwick Ward of Barnsley.

CHM have been established for over 70 years as one of Yorkshire's leading family-owned waste management companies offering 'zero waste to landfill solutions.' Dealing with virtually all aspects of waste management, disposal, and recycling; including difficult, confidential, and hazardous wastes CHM are capable of delivering individual waste services.

The busy Doncaster site is licensed to receive 25,000t/year of which the majority is mixed waste, which underlines the faith that CHM have in the reliability of their Terex® Ecotec Waste Handlers.

Investing in the brand:

Having invested in the very first Terex® Ecotec handler sold into the UK, some 9 years ago, this latest addition to their fleet now stands at four Terex Ecotec machines and illustrates a total commitment to the brand and the relationship and service that Warwick Ward provide.

Guy Middleton – Technical Waste Director of CHM, took up the story; "Looking back at the original purchase of the first TWH 220 when we trialled several other manufacturers' machines the Terex Ecotec machine stood out above all the rest and was a delight for our operators who praised the operating ability and comfort of the machine.

"Obviously, we were conscious of the age of the original machine which led us to further investment in this new machine. Warwick Ward again supplied a new TWH 220 which has again underlined the quality of the product and the solid relationship we have with Warwick Ward.

"One of the factors were the EU Tier V engines that give smooth power accompanied with excellent fuel economy and low emissions. This is all in keeping with our profile - being as 'green' as possible.

"It was really a 'no-brainer' to be honest, the original TWH 220 has been an absolute workhorse with superb build quality, and we have always had full support over the years from Warwick Ward."

Terex® Ecotec TWH 220 Waste Handler:

Ecotec's TWH 220 Waste Handler is purpose built and delivers unmatched power, manoeuvrability, and compact design, making it an exceptional choice in waste recycling. With a 10.4m reach and an operating weight of twenty-one tonnes, it provides outstanding visibility and control, catering to operators who demand performance, efficiency, and reliability.

Equipped with double-edged cylinder bearings throughout the boom, a high-performance cooling system with separated radiators, and a double-row ball joint, the TWH 220 ensures superior durability.



The operator is well catered for with automatic air-conditioning and infinitely variable heating with an 8-speed fan, ten adjustable air nozzles, and three defroster nozzles.

An air-cushioned operators comfort seat is accompanied with swinging armrests, joysticks, safety belt, lumbar support, and headrest. This enables fatigue-free work due to universal adjustment options for the seat position, seat inclination and the arrangement of the seat cushion in relation to the armrests and joysticks.

This machine stands as the top choice in the industry for robust and reliable waste recycling operations.

About Terex® Ecotec:

Terex® Ecotec, part of the wider Terex Materials Processing Group, is an industry leader in the design and manufacture of wood processing, biomass, and recycling equipment.

Acquisitions of Continental Biomass Industries (CBI) and Neuson Ecotec Environmental Technology, combined with an aggressive research and development strategy has seen Terex® Ecotec develop a world class range of mobile equipment that will shape the industry for years to come.

Today, the comprehensive product portfolio includes slow, medium & high-speed shredders, trommel and recycling screens, Waste Handlers, Metal Separation and Conveyors.

The range of innovative machines available are robust, yet user friendly with a focus on throughput, efficiency, and serviceability.

A world class dealer distribution network provides the sales and aftermarket service demanded for in the marketplace giving customers the support required to maximise production and minimise downtime.



About Warwick Ward:

Warwick Ward (Machinery) Ltd. was founded in 1970 and has grown into one of the largest stockists and suppliers of new & used earthmoving and waste recycling equipment, and spare parts in Europe.

As well as being the largest independent CASE dealer in Europe, over the past 10 years, Warwick Ward has continued to expand and grow the business by adding premium complimentary brands such as Terex® Ecotec to their portfolio of products.

With depots in the North, Midlands, and the South their dedicated service team can provide outstanding aftersales support on all earthmoving and recycling equipment across the whole of England.

Operating an extensive hire fleet for both long and short-term hires, with the support of a fully equipped workshop and nationwide service team and transport facility, Warwick Ward can provide a full, quality service to their customers throughout the UK.

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Doubling down on sustainability: PMG invests in new waste recycling plant.

The solution is processing gully waste and road sweeping waste.

With strict regulations on waste products that can be sent to landfill, there is a pressing need for turning gully waste and road sweeping waste into an opportunity.

Under European landfill regulations, liquid waste, in which road sweepings contains 10% water or liquid content, can no longer be sent to landfill. In turn, this presents a challenge for how this waste can be disposed of.

But for PMG this challenge became an opportunity. Over ten years ago the Bristol-based firm purchased a waste recycling plant from wet processing experts CDE which processed waste at a rate of 10 tonnes per hour (tph).

As their operation grew, so did the industry's need for more recycled sand and aggregate products.

According to the Mineral Products Association, the market share of recycled aggregates is three times higher in the UK than the European average[1], highlighting the increasing importance of repurposing waste.

With this in mind, PMG has invested in a new CDE waste recycling facility, which is over double the capacity of the first plant.

Closing the loop on waste

The 25tph solution at Severn Beach is part of PMG's zero to landfill movement and is setting the firm up for future growth goals, says Clare McGuinness, Managing Director of PMG.

"We're on a journey to process even more waste across the South West of England. Our vision is to keep growing the waste processing capability at PMG and be able to divert more valuable material from landfill.

"We're a family run business with over 35 years of experience,



and in that time there has been a lot of change and investment, including moving to a new bespoke facility this year outside Bristol. This has given us the opportunity to design a site that works specifically for our unique operation."

Continuing, Clare explains that having already worked together with CDE on the previous installation on Albert Road that this facilitated better understanding of the technology.

"During the early stages of this investment, we were able to ensure the design and layout was suited specifically to our operation. As we were doubling the size of the operation, we wanted to consider wider yard operations and traffic flow around the site, so we visited a few reference sites across the UK to get a better understanding.

"Due to the nature of the materials, it can be difficult to process the types of waste we're working with, so with the new design we were able to prioritise access for maintenance to ensure that the operation of the plant is easier, and so that we can continue to optimise the solution going forward.">





Repurposing waste for value

The solution, designed and engineered by CDE, comprises of an R1500, one of CDE's R-Series primary scalping screens, an AggMax™ scrubbing and classification system, an EvoWash™ sand washing system and an AquaCycle™ high-rate thickener and static screen.

When the tanker or road sweeper arrives on-site, it lets the water out of the body into the pit, with any solids or light weight organics removed, and the remaining liquid contents are pumped to the AggMax.



Once the truck has released the liquid, it will then discharge all the solid waste such as road sweepings. This waste is then loaded into the R1500 where oversize material will begin to be processed. Anything under 80 millimetres will continue on to the AggMax, which is eventually passed to the EvoWash.

All material that's in the liquid that can't be taken out through solid removal goes to water treatment, and any sludge is sent to a centrifuge where the silt is removed to ensure process efficiency.

The water gets returned to the system for further processing through the AquaCycle which recycles up to 90% of the process water for immediate re-use in the system.

Quality production for the local industry

The solution is allowing PMG to produce two products, an 5-25mm aggregate and a 0-5mm sand product for use in Bristol's construction market.

The recycled aggregates are mainly being used for use in earthworks but meet the specification for highway works, pipe bedding and cable laying, and the sand is used for paving stones.

Clare adds that this is not only supporting sustainability objectives but also creating new revenue streams to support the local economy.

"This was an investment that we had been thinking about for several years, and we are delighted to see the plant in action. We're proud to be recovering this material to transform it into high-value materials for the local industry."



Fergal Campbell, UK key Accounts Manager for CDE says, "PMG's commitment to recovering and repurposing material is second-to-none. Over the year's we've seen the ambition in the team grow, and how sustainability really is at the heart of every decision they make."

"This type of material is challenging and costly to dispose of, but PMG identified the opportunity in this space over a decade ago, and since then they've continued to push boundaries and invest in the right technology to divert even more material from landfill."

"With depletion of virgin materials across the world, there's a greater need now more than ever to turn today's waste into tomorrow's resource, and we will continue to champion the vital service that PMG is providing for the local industry."

For more information on CDE's waste recycling solutions



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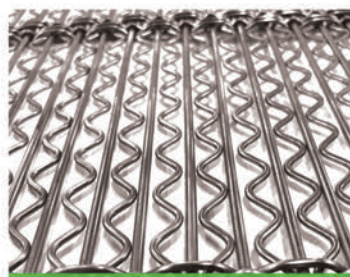
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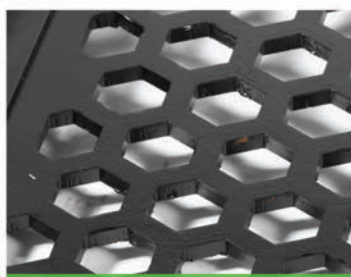
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Cleaner aggregates, greater impact with CDE

Based in Redruth, Harts Haulage has taken a big step forward by installing a new CDE wash plant transforming how they handle construction waste and reducing what goes to landfill by around 80%.

Harts Haulage has always been a hands-on, family-run operation. It started with Neil Hart, a few machines, taking on muck-away jobs and supplying aggregates to local sites across Cornwall. As the demand grew, so did the business, but their core values never changed. They built a reputation for being reliable, down-to-earth, and focused on looking after their customers.



As the company's focus shifted toward recycling and sustainability, they began transforming site waste into usable material for local builders and developers. Initially, the business dry processed the material utilising a Finlay 883+ Heavy Duty Screener and a J-1170 Jaw Crusher sourced from Molson. They've also since added 6F4 and recycled 803 to their product range, giving customers more choice and getting more value from every load.



Despite this process Hart's were still taking considerable volumes to landfill due to material being contaminated with clay and lightweights therefore not being suitable for dry processing. It was the limitations of this process that prompted Harts to seek a solution to divert this material from landfill and maximize the production of high quality, high value recycled sand and aggregates which can be used as a replacement for natural materials in a range of construction applications.

Thanks to the strong relationship between Harts Haulage and Molson, the conversation naturally turned to finding a better way to process their material. The local Molson sales team recommended exploring a wash plant and introduced Neil to Matt Bunting, Managing Director of Molson Washing. Before suggesting any specific setup, Matt shared examples of successful installations he had delivered for other customers and facilitated site visits to see them in action. From there, Molson worked closely with Harts to co-create a solution



tailored to their specific needs in terms of throughput capacity, required outputs and footprint. With Harts' trust in Molson, the decision to go with a CDE wash plant was an easy one. The full process, from initial planning to installation, took around seven months, with the Molson team supporting every step of the way.

The washing process starts by feeding raw material into a heavy-duty scalping screen where the oversize is removed. The remaining material then enters the AggMax scrubbing and classification system, which combines pre-screening, scrubbing, organics removal, sizing, stockpiling, fines recovery and filtrates removal on a compact chassis. The integrated trash screen allows for the effective removal of organics and other lightweight contaminants, ensuring the production of the highest quality final aggregates.

From there, the finer fraction moves to the EvoWash. This part of the system uses hydro cyclones to wash, classify, and dewater the 0–4mm sand. That was a real game changer for Harts before, this sand would have been treated as waste. Now, they are able to recover it as a high-quality, reusable product.

Coarser material goes through the VibroSync sizing screen, which accurately separates the cleaned aggregates into 14mm, 20mm, and 40mm sizes.

Behind the scenes, the plant also takes care of water recovery. Slurry from the wash process flows to the AquaCycle, where flocculants help separate out solids. The clean water overflows back into the system for reuse, while the thicker slurry is pumped into a GEA CF 7000 centrifuge. The centrifuge using centrifugal forces separates the solids and liquid, with recovered water returned to the system for reuse and dewatered solids discharged for disposal.

Plant and Operations Manager Joe Grindrod said the new setup has completely changed the game for them: "The CDE wash plant helps us recover more, cut waste, and hit recycling targets all while delivering quality material." The impact has been massive. Diverting up to 80% of waste from landfill not only helps the environment it saves on disposal costs, improves efficiency, and allows Harts to sell more recycled products to local builders. That means fewer lorries heading to



landfill, and more high-spec recycled materials going back into the ground where they are needed.

Even after the plant was up and running, the Molson Washing team did not just walk away. They have been on hand whenever needed—whether it is fine-tuning the setup, helping the team get the most out of the equipment, or answering questions as new materials come through the yard. That ongoing support has made a

real difference, giving Harts confidence that if anything crops up, there is always someone they can call who knows the plant inside out.

For Harts Haulage, this was not just about upgrading equipment. It was about building something that works for the future. They have kept their focus on doing the job right, supporting local customers, and staying adaptable in a changing industry. With a cleaner product range, a smarter plant, and support from Molson and CDE, they are not just keeping up—they are leading the way.



The case for C&D Recycling: Four Key Benefits that make a difference

By McLanahan Corporation

As demand for construction and infrastructure continues to rise globally, so does the amount of waste generated by construction and demolition (C&D) activities. C&D waste, consisting of materials like concrete, brick, asphalt, wood, metals, and gypsum, represents one of the largest waste streams generated worldwide. Recycling this material not only helps address environmental challenges but also offers meaningful economic and operational advantages.

One of the most immediate benefits of C&D recycling is its ability to divert large volumes of material from landfills. Landfills are expensive to manage, increasingly regulated, and face space limitations, particularly in urban or densely populated areas.

Recycling C&D materials such as concrete, asphalt, and wood significantly reduces the strain on landfill space. Not only does this help preserve available land for more productive use, but it also minimises the costs associated with tipping fees and long-haul waste transportation. In many cases, the recycled materials can even be processed and reused locally, further supporting regional sustainability initiatives.

The construction industry is a major consumer of natural resources, including stone, gravel, sand, and timber. C&D recycling offers a meaningful way to reduce reliance on virgin materials by reclaiming useful products from debris that would otherwise be discarded.

Crushed concrete and asphalt, for instance, can be used as high-quality road base or construction fill. Recovered metals and wood can be sorted, processed, and reintegrated into the



manufacturing supply chain. By choosing recycled aggregates over quarried stone or gravel, operators not only reduce environmental impact but also help extend the life of existing natural resources.

In addition to conserving raw materials, C&D recycling helps reduce carbon emissions and energy consumption. Processing recycled materials typically requires less energy than extracting and refining virgin resources. The result is a smaller carbon footprint across the supply chain.

Keeping construction debris out of landfills helps reduce greenhouse gas emissions associated with material decomposition, such as methane, and limits potential leaching of harmful substances into the soil or water table. For companies focused on ESG goals or LEED certification, recycling contributes directly to sustainability metrics and corporate responsibility initiatives.





While the environmental benefits of C&D recycling are compelling, the economic advantages are equally important. Recycling helps reduce the cost of waste disposal and, in many cases, provides an opportunity to generate revenue by reselling processed materials.

Operators that use recycled aggregates often report lower material costs compared to sourcing virgin alternatives, especially when supply chain disruptions or shortages affect availability.

The value of recycling C&D material extends far beyond regulatory compliance or environmental stewardship; it makes sound business sense. From reducing landfill dependency and conserving finite resources to supporting economic development and enhancing operational efficiency, the benefits are clear and measurable.



At McLanahan Corporation, we understand that success in today's marketplace depends on building more sustainable, cost-efficient practices. For decades, we have worked closely with recyclers and processors to help maximise the value of C&D material through robust, reliable equipment and tailored solutions.

McLanahan's long-standing global reputation in processing solutions is being further cemented in the UK and European markets through strategic partnerships and real-world C&D recycling applications. A prime example of this is the company's relationship with SunEnviro in Thetford, Norfolk, where McLanahan recently delivered a full modular washing and water treatment solution. The setup demonstrates how cutting-edge design, and practical innovation can drive real-world sustainability and efficiency for operators in the region.

The plant at SunEnviro includes a comprehensive wet processing system tailored for recycling construction and demolition waste. It integrates a McLanahan UltraWASH modular washing plant and accompanying water management system, which enables the site to clean and sort C&D waste into reusable aggregates and clean sand, whilst minimising water usage and environmental impact with the help of the McLanahan Filter Press. This installation has quickly become a benchmark example of sustainable aggregate recycling in action and a showcase for what is possible when proven technology meets ambitious environmental goals.



To demonstrate these capabilities first-hand, McLanahan is hosting an exclusive Open Day on Wednesday 3rd September 2025 at the Thetford site. Attendees will have the opportunity to tour the plant, see the equipment in operation, and engage directly with the engineers and experts behind the system. This event is a must-attend for operators, consultants, and policymakers interested in advancing circular economy practices within the built environment.

By investing in partnerships like the one with SunEnviro and offering real-world demonstrations of its C&D recycling solutions, McLanahan is helping to shape the future of sustainable construction practices across the UK and Europe. This reinforces not only the value of recycling but also the importance of choosing experienced partners who understand the complex challenges of the industry.

With over 190 years of experience and a legacy of engineering excellence, we continue to provide the tools and technology to help recyclers get the most out of their C&D material. Whether you are just getting started or looking to expand your operation, we are here to support your success at every step.

For more information on McLanahan's Open Day in Thetford on Wednesday 3rd September, visit www.mclanahan.com



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Do you operate in the Readymix or Piling Industries?

A game changing new Drumjet machine is now available in the UK which will robotically remove hardened concrete from agitator and truckmixer mixer drums, without the need for man entry into the drum.



It has been imported by The Concrete Company (Thorney) Ltd and operates at their Peterborough RMX Plant and is marketed through their MJ Bedford Ltd business. Completely mobile it is available for hire to any competitor or piling contractor with a truckmixer or agitator drum that requires the removal of hardened concrete.

This machine represents a huge step forward for the Readymix Industry as it removes the risk of injury to staff during the process of chipping out mixer drums, by eliminating hard arm vibration, harm caused to them by dust and noise, and staff working in confined space – they don't need to go anywhere near the drum whilst the build-up is being removed robotically.

Injury caused by silica dust inhalation has always been a significant hazard to operators working inside mixer drums, which is classed as confined space working. By using this 'wet removal system' all dust is suppressed within the drum by the water during the removal process. Furthermore, any hardened concrete or 'build up' carried in a readymix truck is weight being needlessly carried around, let alone the reduced drum mixing efficiency it causes. Their slogan "ban the breaker" does exactly what it says.

The machine is based at TCC's Peterborough RMX Plant although it is mobile and can travel to a customers' site by arrangement. For operators of agitators used in the piling industry, The Concrete Company is able to receive, clean and if necessary, store the units for customers ready for use at their next contract.



The machine will typically remove up to 1.5cm of hardened concrete within about 90 minutes using high pressure water operating at 20,000 psi, which is forced between the drum mixing blade and the hardened concrete to split it away, as the drum slowly rotates

during the cleaning process. At the end of the process, the water which contains the removed build up, is discharged from the drum and recycled, and the removed material is sent for crushing at the company's site.

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

Editorial copy deadline – 18th Sept 2025
Advert copy deadline – 25th Sept 2025

Volumetric Concrete Manufacturer ProAll set for Global Expansion under Derrick Murias, new General Manager



ProAll®, Canadian-based leader in volumetric concrete mixing technology, is launching an international expansion strategy under the leadership of Derrick Murias, newly appointed General Manager. With a proven track record in his previous role of Operational General Manager for ProAll, Murias will lead the

brand through a new chapter of growth, building on its 50-year-old history of being a leader in mobile concrete delivery.

"I'm excited to be stepping into this role, especially at such a pivotal time for ProAll," said Derrick. "What excites me most is the chance to be leading a brand that has such a deep commitment to quality, innovation, and sustainability."

The team here is driven, and I believe in the people and the product." The global expansion of ProAll comes two years following its acquisition by Terex, a move that has provided additional resources and global opportunities for the team.

Kieran Hegarty, President, Terex Materials Processing commented, "For the past 50 years, ProAll's volumetric mixers have been used across many industries in North America - from large-scale construction projects to entrepreneurs entering the concrete business. I believe there is a real opportunity to bring these solutions worldwide, backed by the global reach and resources of Terex." Since the acquisition, ProAll has been steadily growing its footprint, establishing distributors in the UK, Ireland, France, Belgium, Romania, and Australia.

As General Manager, Derrick will support and collaborate with the team based in Alberta, Canada, to further grow the business across key regions including North America, Europe, and Asia. "Sustainability, renewed focus on innovation, and distribution development are key pillars of our strategy moving forward," he noted. "At ProAll, we're committed to meet the increasing demand for high-quality, on-demand concrete solutions across a variety of industries, from large-scale construction projects to small business operators entering the concrete industry."

ProAll volumetric mixers are designed to serve a wide range of customers, from major construction firms to independent entrepreneurs looking to enter the concrete business. The brand's industry-leading Commander 2.0 system offers real-time precision batching and monitoring, making concrete production faster and more cost-effective.

One of the most significant advantages of ProAll volumetric concrete mixers is their role in promoting sustainability. By only mixing and delivering the exact amount of concrete needed, these mixers eliminate waste - an issue that has long been a challenge in the concrete industry.

"Our focus is on providing contractors with the ability to produce concrete efficiently, reduce waste, and have full control over their concrete production. This is a solution that not only saves costs but also contributes to sustainability - a key concern for the construction industry worldwide," continued Derrick. "In a world increasingly focused on environmental impact, this is something our team is extremely proud of."

Large infrastructure and construction projects benefit from ProAll's high-capacity volumetric mixers, which are ideal for municipal infrastructure, highways, and remote-site applications where efficiency and reliability are critical.

The brand also offers solutions for smaller-scale projects and businesses, as well as specialised sectors, such as marine construction and underground applications. Derrick added, "We are continuously innovating and expanding our product lineup to ensure that companies in ready-mix production, shotcrete, utility work, and other specialised applications have the right tools to operate efficiently and profitably."

By providing scalable, user-friendly equipment, ProAll supports businesses of all sizes to take control of their concrete production with confidence." A key objective of ProAll's international expansion strategy is to grow its distribution network by aligning with businesses that share its commitment to quality, service, and innovation.

The brand is also enhancing its training and support programmes to provide comprehensive technical training, real-time customer support, and marketing assistance, ensuring that distributors and customers maximise their investment.



World premiere at Heidelberg Materials: Opening of CCS facility in Norway marks new era of sustainable construction

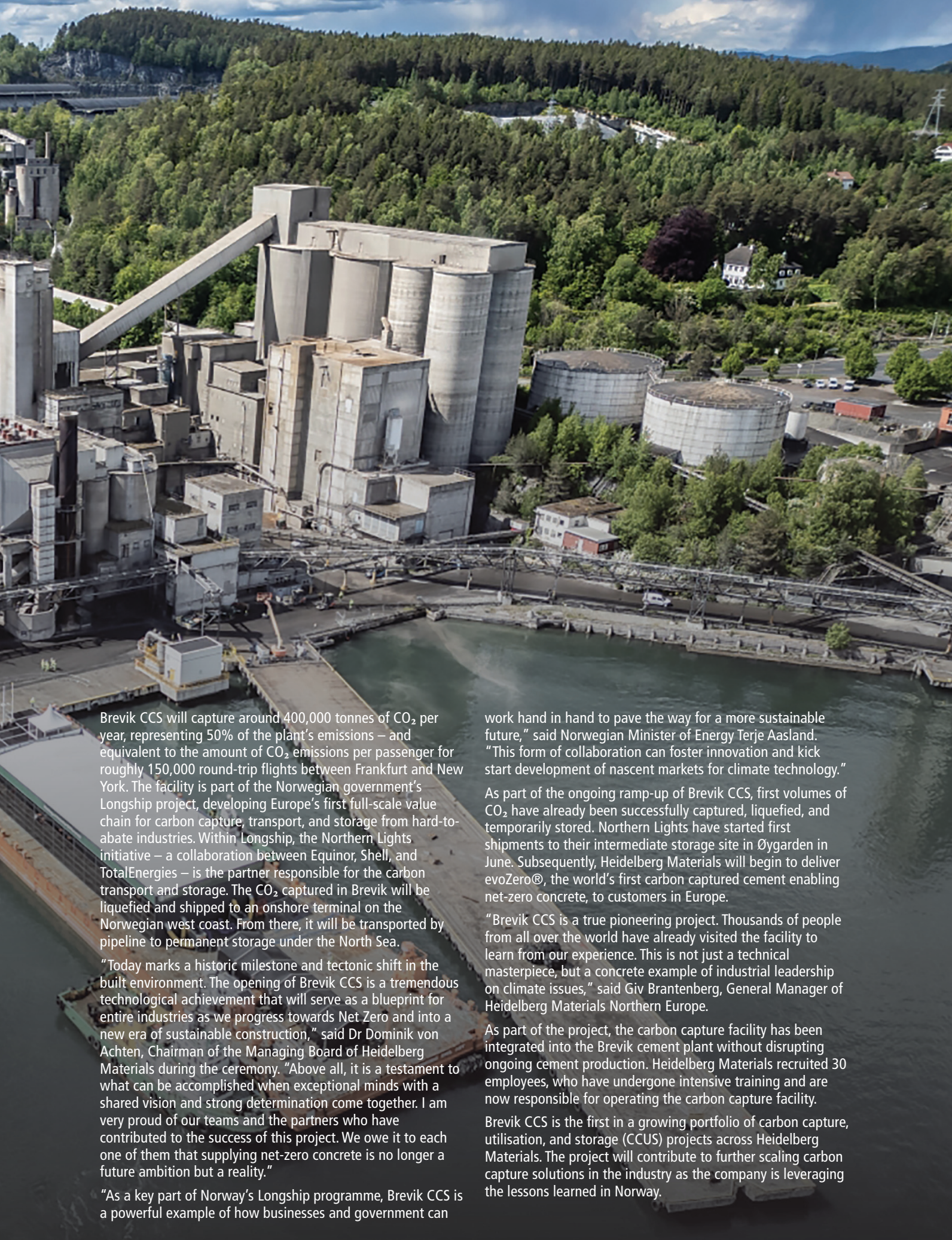
Today, Heidelberg Materials has officially inaugurated Brevik CCS in Norway, the world's first industrial-scale carbon capture, and storage (CCS) facility in the cement industry.

- **Festive opening of Brevik CCS in Norway, the world's first industrial-scale carbon, capture, and storage (CCS) facility in the cement industry**
- **Facility officially inaugurated by H.R.H. Crown Prince Haakon of Norway and more than 320 guests, including Terje Aasland, Energy Minister of Norway**
- **Brevik CCS will capture around 400,000 tonnes of CO₂ per year facilitating the production of evoZero, the world's first carbon captured cement enabling net-zero concrete**
- **First CO₂ already successfully captured, liquefied, and temporarily stored; injection into the subsea reservoirs is scheduled to begin in August**
- **More than 1.2 million hours of technical precision work carried out by an on-site team of up to 400 employees and external partners**
- **As a first-of-its-kind project in the cement sector, Brevik CCS is an important blueprint for future CCS projects worldwide**



Unveiling of the inaugural plaque at the Brevik CCS opening event (from left): Terje Aasland, Norway's Minister of Energy, H.R.H. Crown Prince Haakon of Norway, Dr Dominik von Achten, Chairman of the Managing Board of Heidelberg Materials, Per Ole Morken, Brevik Plant Manager

Heidelberg Materials has officially inaugurated Brevik CCS in Norway, the world's first industrial-scale carbon capture, and storage (CCS) facility in the cement industry. During a festive ceremony at the Brevik cement plant, H.R.H. Crown Prince Haakon of Norway officially unveiled a concrete-made plaque commemorating the historic milestone in attendance of Terje Aasland, Norway's Minister of Energy, Dr Dominik von Achten, Chairman of the Managing Board of Heidelberg Materials, and more than 320 guests, including industry leaders, international high-level government officials, as well as representatives from NGOs and start-ups.



Brevik CCS will capture around 400,000 tonnes of CO₂ per year, representing 50% of the plant's emissions – and equivalent to the amount of CO₂ emissions per passenger for roughly 150,000 round-trip flights between Frankfurt and New York. The facility is part of the Norwegian government's Longship project, developing Europe's first full-scale value chain for carbon capture, transport, and storage from hard-to-abate industries. Within Longship, the Northern Lights initiative – a collaboration between Equinor, Shell, and TotalEnergies – is the partner responsible for the carbon transport and storage. The CO₂ captured in Brevik will be liquefied and shipped to an onshore terminal on the Norwegian west coast. From there, it will be transported by pipeline to permanent storage under the North Sea.

"Today marks a historic milestone and tectonic shift in the built environment. The opening of Brevik CCS is a tremendous technological achievement that will serve as a blueprint for entire industries as we progress towards Net Zero and into a new era of sustainable construction," said Dr Dominik von Achten, Chairman of the Managing Board of Heidelberg Materials during the ceremony. "Above all, it is a testament to what can be accomplished when exceptional minds with a shared vision and strong determination come together. I am very proud of our teams and the partners who have contributed to the success of this project. We owe it to each one of them that supplying net-zero concrete is no longer a future ambition but a reality."

"As a key part of Norway's Longship programme, Brevik CCS is a powerful example of how businesses and government can

work hand in hand to pave the way for a more sustainable future," said Norwegian Minister of Energy Terje Aasland. "This form of collaboration can foster innovation and kick start development of nascent markets for climate technology."

As part of the ongoing ramp-up of Brevik CCS, first volumes of CO₂ have already been successfully captured, liquefied, and temporarily stored. Northern Lights have started first shipments to their intermediate storage site in Øygarden in June. Subsequently, Heidelberg Materials will begin to deliver evoZero®, the world's first carbon captured cement enabling net-zero concrete, to customers in Europe.

"Brevik CCS is a true pioneering project. Thousands of people from all over the world have already visited the facility to learn from our experience. This is not just a technical masterpiece, but a concrete example of industrial leadership on climate issues," said Giv Brantenberg, General Manager of Heidelberg Materials Northern Europe.

As part of the project, the carbon capture facility has been integrated into the Brevik cement plant without disrupting ongoing cement production. Heidelberg Materials recruited 30 employees, who have undergone intensive training and are now responsible for operating the carbon capture facility.

Brevik CCS is the first in a growing portfolio of carbon capture, utilisation, and storage (CCUS) projects across Heidelberg Materials. The project will contribute to further scaling carbon capture solutions in the industry as the company is leveraging the lessons learned in Norway.

Material Evolution secures venture debt facility from HSBC Innovation Banking



Material Evolution's ultra-low carbon cement plant in Wrexham

MATERIAL Evolution, a pioneering sustainable materials company, today announced it has secured a venture debt facility from HSBC Innovation Banking UK, a leading financial partner to high-growth, innovation-led businesses. This facility will support Material Evolution's continued development and scaling of its breakthrough ultra-low carbon cement technology.

Founded to decarbonise the cement industry, Material Evolution uses alkali fusion and AI-powered design to create ultra-low carbon alternatives to traditional Portland cement. The company's proprietary technology enables their first product, MevoCem, to reduce CO₂ emissions by up to 85% compared to conventional methods, addressing one of the most significant contributors to global greenhouse gas emissions.

"As a climate tech hardware business, we know that debt will become an important part of our capital stack as we mature and scale globally," said Dr. Liz Gilligan, co-founder and CEO of Material Evolution. "Securing this venture debt facility from HSBC Innovation Banking is a first step toward diversifying our own financing beyond grants and venture capital and accelerating us toward our fully scaled capital stack."

The venture debt facility will be used to help grow the company's commercial traction.

Avisha Blakeway, director at HSBC Innovation Banking UK, commented: "We are proud to unlock growth and open doors for innovative climate tech companies. We are delighted to support Material Evolution on this next milestone in the company's journey and we look forward to working together with the team as they scale their technology and impact."



HSBC Innovation Banking team visiting the Mevo A1 Production Facility in Llay, Wales. L-R Avisha Blakeway, Hani Zaitoun, Courtney Ruppel, Dr. Liz Gilligan, Bailey Morrow, Wesley Gounder

This announcement underscores HSBC Innovation Banking's ongoing commitment to supporting climate tech innovators that are aiming to build a more sustainable future.

Allstone cements multimillion deal for Monster Mix Ltd

Gloucester Construction aggregates firm Allstone has signed a multimillion-pound deal for concrete suppliers Monster Mix in a move which sees the city's two names team up to deliver a complete construction materials package.

Based on Gloucester's Eastern Avenue, Monster Mix's staff of fifteen join the existing payroll of 90 Allstone staff who work out of the firm Myers Road HQ.

The move means Allstone's aggregates, the familiar Speedy Skips service and Monster Mix's fleet now sit within Allstone Holdings, while both firms remain in their present form and locations.

Simon Ford, Allstone's owner and CEO, said: "Monster Mix is a thriving volumetric, drum-mix and concrete pumping business. Bringing the two companies together presents an exciting range of opportunities, all of which will make the two entities stronger together."

Key to the relationship, Monster Mix owner and founder Paul Hopson will retain his role, while Allstone gains a majority and controlling interest. Revenues for the combined operation are forecast to exceed £20m.

Rowan Elliott, Allstone Managing Director, said: "I'm thrilled to see this come to fruition. There were so many underlying synergies marking this expansion as a natural option: beyond an overlapping customer base, we are proud that as one company we can now provide sustainable raw materials, waste management and concrete products for our customers."

Looking ahead, he said the firm has a planned growth strategy: "Monster Mix holds a strong market share in Gloucestershire, and we see this business as pivotal to our



journey. When it comes to a local construction project, we now have a turnkey solution, offering all the products and services people need."

Allstone's story began in 1983 on Gloucester's Denmark Road, the company recently hitting the headlines with a significant investment to refine its sustainability credentials. This drive included a multi-million investment in a new recycled aggregate production facility at Myers Road, turning construction waste into sustainable building materials.

Additionally, Allstone operates an automated waste recovery plant which was showcased at a recent Gloucester Growth Hub Net Zero event. The facility diverts unwanted skip material from landfill, reducing carbon impact by 60%, while residual material is used to provide fuel for sustainable energy production, powering homes, and businesses.

Pictured (L to R) at Allstone's Myers Road home in Gloucester are Allstone CEO Simon Ford, colleague Rowan Elliott and Monster Mix founder Paul Hopson.



Coshla Quarries powers ahead with Custom Concrete Batching Plant from Rapid International



Coshla Quarries in Galway has taken a bold step toward modernising its operations with the installation of a new custom designed concrete batching plant, delivered by Rapid International. As demand for high-performance concrete continues to rise in the region, this purpose-built facility represents a significant investment in efficiency, quality, and long-term sustainability.

At the core of the new plant is Rapid's R3000 pan mixer, a powerful 3m³ output machine known for producing consistent, high-spec concrete batches. The inclusion of this mixer underscores the quarry's commitment to maintaining quality while ramping up production capacity to meet growing market needs.

The project is the result of a close collaboration between Coshla Quarries and Rapid, demonstrating the value of tailored engineering solutions. "This plant wasn't just built to order, it was built to optimise," said a spokesperson for Rapid. "From layout to performance features, every element was designed to support Coshla's workflow and long-term operational goals."

Key to the plant's enhanced capacity are five large 50-tonne aggregate bins, providing broad material handling capabilities. These are supported by three cement silos, two 80-tonne and one 60-tonne. Offering flexible storage that ensures production continuity, even during high-demand periods.

Innovation extends beyond storage and mixing. The plant is equipped with a Rapid Jetwash high-pressure mixer washout system, streamlining cleaning routines and dramatically reducing downtime between batches. A bespoke shut-off device fitted to the readymix chute prevents unwanted concrete drips, helping maintain a cleaner work environment and minimising material waste.

This installation is more than a technological upgrade, it's a strategic enhancement of Coshla Quarries' production infrastructure. By significantly boosting output, reducing downtime, and improving material handling and hygiene, the plant marks a pivotal shift toward a smarter, more sustainable model of concrete production.

For Rapid International, this project reinforces its position as a leader in custom batching solutions. The company continues to push the boundaries of what's possible in concrete technology, focusing on solutions that adapt to the unique challenges and ambitions of each client.

As Galway's construction sector grows, Coshla Quarries' new facility positions them as a key supplier ready to meet modern demands with confidence and precision. This partnership between a forward-thinking quarry and an innovative equipment manufacturer is a shining example of how bespoke engineering can power progress in the built environment.

Cemex partners with James Watt College on new Concrete Testing Facility

Representatives from Cemex and BMet's James Watt College, formally opened the college's new concrete testing facility and classroom space at an unveiling ceremony last week. The new facility will allow students at the college to learn and develop their skills in an environment designed to better prepare students for industry.

BMet (Birmingham Metropolitan College) has five campuses across the city of Birmingham and offers vocational courses (BTECs) for 16–19-year-olds, apprenticeships, and trailblazers as well as full and part-time courses for adults including Access to Higher Education and university level study. The partnership with Cemex has allowed the college to enhance its learning content to an industry standard across its construction related courses.

Lex Russell, Materials Managing Director of Cemex UK and Chair of the Mineral Products Association (MPA), said "This collaboration demonstrates how industry and academic institutions can work in close partnership to help develop the future talent pipeline for the construction sector and ultimately support the government's growth ambitions around housebuilding and critical infrastructure projects.

"Two of the key components in supporting growth across these sectors will be the supply of materials and the availability of a skilled workforce.

"We're very proud to be able to partner with James Watt College in Birmingham, which provides exceptional facilities and courses designed to provide people with the skills they need for industry."



L-R: Andy Lees (Senior Director Curriculum, Innovation and Construction at BMet), Howard Reid (Lead Fitter at Cemex UK), Christian Vale (Senior Operations Manager at Cemex UK), George Howell (Apprentice Fitter at Cemex UK) and Lex Russell (Materials Managing Director at Cemex UK).

James Watt College specialises in construction, engineering, media, health, social care, and early years study and provides cutting-edge educational and vocational facilities for developing construction and trade skills with courses covering electric, gas, plumbing, bricklaying, and a range of technical and support operations programmes for the rail industry.

Andy Lees, Senior Director of Curriculum and Innovation & Director of Construction at BMet, commented, "It gives me great pleasure to announce the official unveiling of our brand-new Concrete Testing Facility at the James Watt Campus – developed in proud partnership with Cemex and we were very honoured to be joined by representatives from Cemex including Lex Russell, to celebrate this exciting milestone. Their presence highlights the importance of this collaboration in helping shape both the curriculum model and the learning content delivered within it.

"This cutting-edge facility offers our construction learners the opportunity to carry out real-world concrete testing, closely aligned with current industry practices. Combined with the Department for Infrastructure and Groundworks, also based at James Watt Campus, students can now pour, cast, and test concrete – all within a fully integrated and practical learning environment.



L-R: Howard Reid (Lead Fitter at Cemex UK), George Howell (Apprentice Fitter at Cemex UK), Andy Lees (Senior Director Curriculum, Innovation and Construction at BMet), Lex Russell (Materials Managing Director at Cemex UK) and Christian Vale (Senior Operations Manager at Cemex UK).



L-R: Andy Lees (Senior Director Curriculum, Innovation and Construction at BMet), George Howell (Apprentice Fitter with Cemex UK), Lex Russell (Materials Managing Director at Cemex UK).

"The support we receive from Cemex is absolutely integral to our mission. Their continued collaboration enables us to co-design curriculum content, ensuring our learners are not only actively engaged but also fully prepared for the demands of industry. In many cases, this partnership opens up pathways and opportunities that learners may not have previously considered.

"This is a shining example of how education and industry can come together to develop the skills needed for the workforce of tomorrow."

One example of how the partnership is already producing future talent is the example of George Howell, Cemex's apprentice fitter, who is currently taking an electrical course at James Watt College and has recently received the Individual Recognition Award and finished as Runner-up in the Young Leader Award category at the MPA's Health & Safety Awards.

George comments that, "The opportunities I have received from Cemex and through the college have allowed me to develop my skills and experiences in such a way that I have been able to apply what I have learned with the college to my day-to-day role at Cemex. The facilities at the college are fantastic and my confidence has improved a huge amount during my time here."

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Turning Asphalt into a Climate Solution

What if roads could help slow down or even reverse climate change? This bold idea is becoming reality in Northern Germany, where a pioneering pilot project is demonstrating how road construction can become not only more sustainable, but a part of the climate transition. Novocarbo, a leader in carbon removal technologies, has partnered with Hansa Asphalt to bring a new asphalt mix to the road – one that stores carbon long-term while enhancing material performance.



Infrastructure and climate action do not have to be at odds. In an innovative pilot project, Novocarbo GmbH and Hansa Asphalt GmbH have developed an asphalt mix infused with biochar, a carbon-rich material made from plant waste. The test has delivered promising results and may lay the groundwork for future standards in road construction.

“If we succeed in turning road construction into a means of storing carbon, it opens up a whole new perspective for the infrastructure sector,” says Caspar von Ziegner, CEO of Novocarbo. “Biochar can not only ease the burden on the climate but also deliver functional advantages.”



Sustainable Road Construction with Biochar

The pilot took place at the Carbon Removal Park Baltic Sea in Mecklenburg-Western Pomerania. Fine-grained biochar (<5 mm) was added

at a 3 % ratio to the top layer of asphalt – roughly 7 metric tons in total. The results show several key advantages:

- Greater material efficiency: same mix volume, more surface coverage.
- Raw material substitution: potential to replace filler materials or even bitumen.
- Permanent carbon storage: Creation of carbon removal credits.

Additional analyses, including core sample testing, are underway to examine long-term performance benefits such as:

- Higher durability: better resistance to temperature fluctuations and aging.
- Improved stability: reduced rutting and increased stiffness.

Studies and initial laboratory results support these findings: In suitable mixtures and with the right formulation, biochar increases the viscosity of asphalt binders.

Climate Impact and Carbon Credits

The project captured permanently around 75 kg of CO₂ equivalent per ton of asphalt – adding up to 17.5 tons across the test site. These carbon savings are certified by Novocarbo as Carbon Removal Credits and independently verified. The credits can be sold to companies seeking to offset unavoidable emissions. This combination of technical functionality and climate impact makes biochar a powerful lever for sustainable construction projects.

Next Steps and Perspectives

A commercial launch is scheduled for fall 2025. Meanwhile, Novocarbo is expanding testing and forging new partnerships with construction firms and research institutions. “Our vision is scalable, climate-friendly infrastructure – starting with roads but extending far beyond,” says Caspar von Ziegner.

A Growing Future Market

The global asphalt market is projected to surpass \$370 billion by 2032, and pressure to decarbonize is mounting. Biochar could play a key role, if regulatory requirements, such as limits on polycyclic aromatic hydrocarbons (PAHs), are met. Novocarbo ensures compliance through rigorous quality controls and certified biochar products.



UK first as Tufflayer SAMI asphalt gains BBA HAPAS approval

- **Heidelberg Materials UK is the first asphalt supplier to gain BBA HAPAS approval for a SAMI (stress absorbing membrane interlayer) solution.**
- **Tufflayer provides an alternative to geogrids and significantly delays the effects of reflective cracking.**
- **The announcement follows an intensive approval process by the BBA and provides reassurance to customers of its quality and performance.**

Heidelberg Materials UK has become the first asphalt supplier to receive BBA HAPAS approval for a stress absorbing membrane interlayer (SAMI) solution.

Its Tufflayer product, an alternative to geogrid asphalt, uses a specially designed polymer modified bitumen (PMB) supplied by Shell Bitumen to achieve optimum flexibility and enhance fatigue resistance. It significantly delays the effects of reflective cracking and protects the lower layers from water ingress, providing further resilience and extending the life of the road.

Adrian Hadley, Technical Head (Asphalt and Aggregates) at Heidelberg Materials UK, said: "It's fantastic to be the first asphalt manufacturer to achieve this milestone.

"It followed an intensive approval process by the BBA and provides our customers with reassurance of Tufflayer's quality and performance."

Tufflayer is ideal for concrete overlays or any site where reflective cracking caused by thermal expansion or heavy trafficking may be an issue.

It is easy to lay using conventional paving equipment and, as it avoids the use of geogrids, it reduces on-site equipment and personnel, improving workforce health and safety and reducing whole-life costs.

More information can be found at:

<https://www.heidelbergmaterials.co.uk/en/products/asphalt/tufflayer>



Boosting Quarry Efficiency with Advanced Metal Detection Technology

Headquartered in Heidelberg, Germany, with a global footprint across more than 50 countries, Heidelberg Materials stands as one of the world's largest manufacturers of a diverse range of innovative building materials, including cement, aggregates, ready-mixed concrete, and asphalt. These products are fundamental in the construction of residential dwellings, infrastructure, and commercial as well as industrial facilities.

History and Expansion

The Craig yr Hesg quarry, situated in the Taff Valley near Pontypridd, Wales, has been a prominent source of high-quality blue pennant sandstone for more than a century. This sandstone has been integral to significant road surfacing projects, including the heavily used Heathrow Airport runway and the M25 motorway in the UK.

With reserves dwindling, the Welsh Government commissioned Heidelberg Materials to undertake a quarry expansion to extract an additional 10 million tonnes of aggregate stone. The rugged nature of this project presented challenges, including frequent lodging of tramp metal in the aggregate cone crusher, leading to considerable equipment downtime.

Tackling Tramp Metal

In pursuit of a solution, Heidelberg Materials consulted with Eriez, known for its exceptional equipment performance and customer service. Eriez proposed a three-month trial of its state-of-the-art MetAlarm metal detector prototype, designed to maximize metal recovery during the inspection process.

A New Era in Metal Detection Technology

The latest MetAlarm marks a leap forward in signal processing and electronic design, surpassing previous models from Eriez' MetAlarm series and competitive products alike. Its pulse-induction technology and adaptive digital electronics make it highly suitable for harsh environments like quarries, enhancing protection for crushers, screens, and conveyor belts by reliably detecting damaging tramp metal.

Innovation Through Collaboration

"MetAlarm was developed through a strategic collaboration between Eriez-Europe and Cardiff University," explains Liam Gulwell, Business Development Manager—Heavy Industry, Eriez-Europe. He says this initiative involved the launch of a cutting-edge research and development hub located on the university's campus in Wales' capital city. He explains,

"Tapping into the technical expertise of Cardiff University has been instrumental to pioneering groundbreaking new technologies like our MetAlarm metal detector. Furthermore, this partnership approach accelerates our ability to introduce new products to the market."

Performance Outcomes

Implementing MetAlarm not only addressed the immediate issue of equipment downtime but also provided ancillary benefits. The significant reduction in blockages led to increased production and throughput, translating into considerable cost and time savings for Heidelberg Materials during the quarry expansion project.

Perhaps even more importantly, MetAlarm's reliable detection capabilities have significantly improved safety at the worksite by minimizing the need for manual handling of materials and reducing associated health risks. This technological advancement also supports Heidelberg Materials' commitment to sustainability. By facilitating the recovery and recycling of valuable metals, MetAlarm helps promote a circular economy within the building materials industry, aligning economic activities with environmental responsibility.

Field Validation

Mike Wilkes, General Foreman for the Craig yr Hesg quarry, expresses high satisfaction with the results: "The MetAlarm metal detector has greatly exceeded our expectations not only in terms of performance and reliability but also in driving process efficiencies. Eriez has truly been an invaluable partner for us, tailoring solutions to suit our specific needs and providing customer service that is second to none."



Liebherr digs, loads and dozes at Welton

A quarry and recycling company has taken its fleet of Liebherr equipment to seven with a major investment in new excavators and wheeled loaders.

The four-machine package for Welton Aggregates was made up of R 945 and R 938 excavators and a pair of XPower wheeled loaders to work at its Welton le Marsh and Hibaldstow quarries in Lincolnshire. Both sites quarry virgin aggregates and produce a range of recycled products and soils.

The wheeled loaders – L 566 and L 576 XPower models – and the 40-tonne R 938 are based at the huge Welton site where the excavator spends its shifts either on chalk extraction or on duties in the recycling yard. Forty miles away at the Hibaldstow hard blue limestone quarry, the R 945 has become Welton's new frontline excavator which, with an operating weight of just over 45 tonnes, is now the company's biggest digger.

The R 938 is one of 10 machines that make up Liebherr's Generation 8 tracked range, beginning with the recently introduced R 915 Compact and goes through to the R 945

flagship model. With an operating weight between 37-40 tonnes, the 938 is powered by a 299hp, 8-litre Liebherr diesel. Operator George Riggall reckons the manufacturer got it spot-on with the combination of power and fuel economy (the R 938 goes through just 19.67 litres an hour). 'It has no issues in working in some of the heavier material we have on site. Whether it's clay or rubble, it copes easily with anything we put it to. I'm really happy with the way this Liebherr has been performing for us.'

Elsewhere on the site, the L 566 XPower loader is employed on duties such as maintaining the stockpile, feeding the wash plant and remove the piles of screened soils adjacent to the crushing operation. Carrying a 4.1m³ general purpose bucket, the loader has the same D944 engine as the R 938 excavator but producing a slightly lower 249hp. Mated to Liebherr's hydrostatic transmission, it provides class-leading pushing power to ensure a full bucket on each pass.

'Whether it's clay or rubble, the Liebherr easily copes with anything we put it to'

George Riggall, Operator



Meanwhile, the larger L 576 XPower has taken up frontline duties for truck loading on the virgin aggregates section of the site. With a larger 5.2m³ bucket, it will load each of the company's large fleet of eight-wheelers in just two passes.

Over at Hibaldstow, the Liebherr R 945 uses an identical eight-litre, 299hp powerplant as that in the R 938 but with slight increases in torque and break-out forces. Fitted with a standard 6.45-metre mono boom and 2.9-metre stick, it is responsible for excavating the layers of limestone. Once soils have been removed from the surface, shallow layers of material with a yellow limestone uppermost are revealed. While those are relatively easy to remove, the underlying material is a little more stubborn and requires a hydraulic hammer to break out layers of hard blue limestone into suitably sized pieces which are fed into the crusher. Once each area is broken up, a heavy-duty rock bucket is attached to load the 25-tonne capacity dump truck that ferries the material to the stockpiling area.

The Liebherr line-up

The latest deal continues a five-year relationship with Liebherr that began five years ago with the arrival of a Generation 6 PR 736 dozer. While it doesn't run on a daily basis, its reliability and productivity on both in-house and external jobs makes it a valuable part of the fleet.

The PR 736 was joined a year later by an R 922 excavator to handle material around the Welton le Marsh wash plant. A batching plant completes the Welton Liebherr line-up.



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Maximising Screening Efficiency at the Waterfront: Tema Isenmann's WS85 Installation elevates performance at Marine Wharf

In the ever-evolving world of aggregate processing, operational efficiency and equipment longevity are key drivers of success – especially in the harsh environment of marine wharves. TEMA ISENMANN, a trusted name in screening media, has once again raised the bar with the recent installation of its WS85 modular screening machine on a large 3000 x 7000mm triple deck screening machine at a busy sea dredged aggregate terminal.

This installation, which includes the company's innovative 600mm wide inspection modules, is a testament to the WS85 system's growing reputation for delivering wear resistance, fast maintenance access, and consistent performance – regardless of how tough the conditions may be.

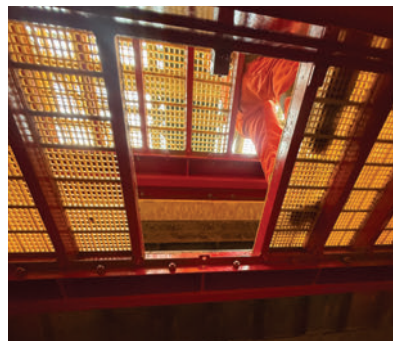
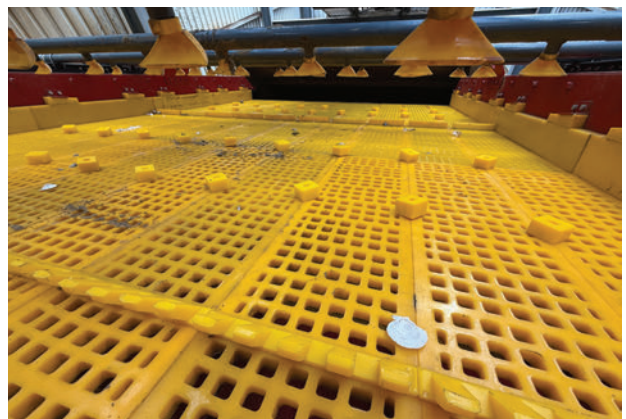
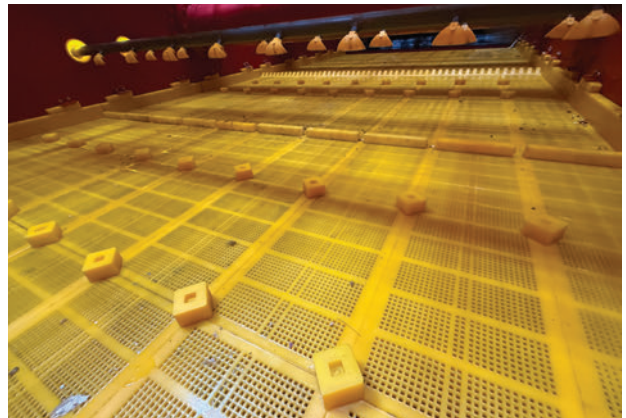
The wharf in question, a major hub for washed marine aggregates destined for concrete and construction markets, required a screen media solution that could maximise uptime, deliver reliable sizing, and reduce maintenance demands. With a massive 3000 x 7000mm triple deck machine at the heart of its processing operation, the choice of screening media would be a critical factor.



WS85: Proven Performance, Now with Enhanced Access

Enter TEMA ISENMANN's premium polyurethane WS85 modular screening media, engineered specifically for demanding, high-wear environments. The WS85's reputation is well established across mineral processing sectors – but this installation demonstrates its proven value in a wet, marine-dredged context.

A standout feature of this installation is the incorporation of 600mm wide inspection modules. Strategically placed, these



wider modules provide easier and faster access for visual checks and routine maintenance, reducing downtime and improving safety. The inspection modules, which fit seamlessly into the WS85

system, allow maintenance teams comfortable access to areas without dismantling large sections of media, streamlining inspection procedures significantly.

Looking Ahead

This installation marks another step forward in modernising aggregate processing infrastructure at marine wharves. As demand for responsibly sourced aggregates continues to grow, systems like TEMA ISENMANN's WS85 – with their combination of toughness, adaptability, and user-focused design – are setting the benchmark for the next generation of screening solutions.

From extended wear life to smart maintenance features like the 600mm wide inspection modules, the WS85 system is helping marine operators work more efficiently, safely, and sustainably.

Preventing Fugitive Material from Conveyors

By R. Todd Swinderman, President Emeritus / Martin Engineering



Most conveyors experience some degree of material loss due to spillage, leakage, dust, and carryback, collectively known as fugitive materials. This loss can range from 3% in poorly operated and maintained systems to less than 0.1% in world-class operations.[1] Although fugitive materials cannot be completely eliminated from bulk material handling conveyors, the issue can be effectively managed, leading to cleaner, safer and more productive operations.

The symptoms of a failure to control fugitive materials include unplanned downtime, excessive cleaning costs, premature equipment failure, regulatory violations, and safety incidents. Addressing these symptoms with workable, long-term solutions will enhance performance, housekeeping and safety, and boost profitability.

When Material “Goes Rogue”

The nature of fugitive material problems from any conveyor is indicated by the location and particle sizes of the accumulations. Fugitive materials are generally categorized into spillage, leakage, dust and carryback.

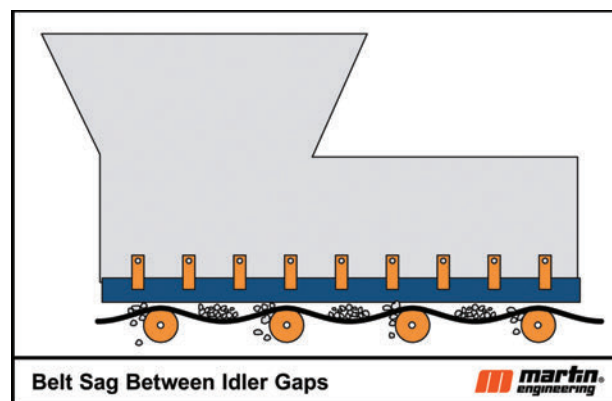
Spillage escapes the belt and collects under the conveyor in both the loading and discharge zones. Piles of spillage accumulate rapidly and occur due to overloaded belts, mistracking, and insufficiently sealed loading and discharge zones. This is best remedied with a Skirtboard Liner. A wearliner and a canoe liner protect the enclosure from abrasion wear.



A properly structured enclosure is slightly elevated, with dust curtains, an external wearliner, and adequate skirting.

Leakage seeps, slowly accumulating in piles. The source of the leakage may not be immediately apparent. Apron-Seal™ dual skirting along the skirt board rides the belt, creating a seal material from dust emissions.

Dust commonly uses turbulent air to escape at the transfer point. In some studies, working in a dusty environment reduces worker productivity by as much as 20%.[2] Combustible dust presents fire and explosion hazards, along with health and safety risks. A modular transfer point kit creates a loading zone, settling zone, and stilling zone, separated by curtains, that control air flow and allow dust to settle back into the material stream.



Worn or inadequate skirting and wearliners can allow material to escape.

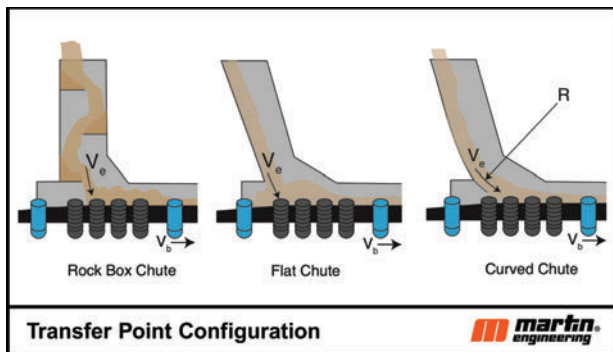
Carryback refers to fine material that adheres to the belt surface or gets trapped in imperfections after passing the belt cleaners. At the discharge and along the belt's return path, this material falls beneath the system, generating dust and accumulating, sometimes encasing the belt and rolling components.

Best Practices for Better Material Control

A common production “upgrade” is to increase the speed of the belt. Fugitive material problems are roughly proportional to the speed of the conveyor (or tonnage). If the belt speed is doubled, the fugitive material problem and cost of operation (clean up, maintenance, equipment replacement, etc.) may also double.

There's an old adage: you can't fit 5 lbs in a 1 lb bag. Careful consideration must be given to capacity calculations, the angle of belt incline, transfer point design, and access for cleaning and maintenance. To enhance control of fugitive materials, it is advisable to derate the capacity to 80-90% of the theoretical capacity and employ slower belt speeds. Loading at an angle of less than 5 degrees and reducing the incline will help minimize flooding and material rollback at the tail.[3]

Designing a longer and taller skirtboard enclosure with dust curtains will help control airflow and dust emissions. Access for cleaning and maintenance can reduce downtime by 33% and significantly decrease exposure to hazards. If future capacity increases are likely, they should be planned for in the initial design.



Transfer point chute design with curved and centered loading controls splashing and turbulent air flow, allowing dust curtains to be more effective.

Case Study - Western Brazil

A bulk handling operation in Brazil, located near a resort area, was facing public outrage due to dust and spillage that were staining the beautiful sandy beaches a deep red. The mill was confronted with daily fines and the risk of closure if the issues were not resolved.

The main focus was on repairing transfer points, replacing idlers, and alleviating some of the most significant material flow bottlenecks. The benefits were numerous. Spillage decreased from 2.8% to 0.8% of tons conveyed, idler life increased by 30%, belt life improved by 25%, and safety incidents and near misses were dramatically reduced. Operators noticed that most complaints shifted to the need to mow the grass that grew back underneath the structure.

However, the most significant benefit was the improvement in conveyor availability, enabling a 33% increase in production without expanding the raw material yard's receiving and storage capacity.



Grass started growing again under the primary raw material supply belt after the dust and spillage were eliminated.

Conclusion

Managing fugitive material is a more economically and operationally sound choice than merely chalking it up as "the cost of doing business." The effect that spillage, dust and carryback have on an operation is a tangible reminder of unnecessary inefficiency. By working with experts and installing modern solutions to age-old conveyor problems and practicing state-of-the-art maintenance, operators can significantly improve safety in the workplace and dramatically reduce the cost of operation.

References

- [1] Staff; Belt Conveyors for Bulk Materials. Conveyor Equipment Manufacturers Association (CEMA) 7th edition. 2021
- [2] Hubbard, Douglas W.; How to Measure Anything, Finding the Value of Intangibles in Business. John Wiley & Sons, 2010.
- [3] Coscione, Marco; Swinderman, R. Todd; Swinderman Scale of Fugitive Material Measurement, Measurement of Fugitive Material for Belt Cleaning Assessment, ENCOM. 2018

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Irish Government's major infrastructure spend welcomed



Construction plant and equipment distributor, McHale Plant Sales of Birdhill, Co. Tipperary has welcomed the announcement by the Irish Government confirming that it is finalising a major investment plan to inject up to €30billion of additional funding into Ireland's infrastructure between 2026 and 2030.

Representatives in Ireland for Komatsu and Metso, the Irish company views the Government's announcement as 'one that will be universally welcomed given its capacity to create significant employment, generate extensive spin-off investment, enhance the national estate to an immeasurable degree, and create a greater sense of wellbeing amongst our community generally'.

Noting the separate action being taken to revise Ireland's National Development Plan by increasing overall investment in the State's infrastructure to nearly €100bn over the next five to six years, McHale Business Development Director, Darragh O'Driscoll said: "with this new commitment and the plans that will accompany it, Ireland is investing in projects that have been long-overdue".

Citing the construction of a new bridge spanning the River Shannon – Ireland's longest river – between the Tipperary village of Ballina and Killaloe in Co. Clare, O'Driscoll stressed the benefit that "properly planned spending on infrastructure can bring in terms economic return, spin-off tourist spending and in an enhanced level of convenience to residents, visitors, retail suppliers and materials providers generally".

"Another major project commissioned by the Irish Government, and currently in progress, is a EUR450million upgrade of the Ballaghaderreen to Scramogue section of the N5 in Co. Roscommon on which Wills Brothers of Foxford is lead contractor," O'Driscoll said.



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Advertisers Index

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CONCRETE COMPANY	36
DONGHUA	44
ECOGREEN	55
EDGE	44
ELITE	22
ERIEZ	20
HARPSCREEN	29
KLEEMAN	34
LIEBHERR	13
MIDDLETON ENG	19
MOLSON	BACK COVER
PROSPARE	26
RAPID	50
SAWARD	18
SPRINGMASTERS	55
TEMA	36 & 53
TYRONE	FRONT COVER
ULRICH	6

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