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Recycling & Bulk Materials Handling Industries

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Waste and recycling



Liebherr shows its metal



In years past, equipment fleets in UK scrap yards tended to be dominated by excavators nearing the end of their productive working lives in construction applications. These days, the industry is more sophisticated and Northern Metal Recycling is keen to be at the forefront of sustainable recycling techniques and technology...with a little help from Liebherr material handlers.

The company's business strategy is guided by a combination of efficient organisation and the right equipment, investing heavily at its yard in County Durham to increase throughput of materials. Managing director Jordan Bell explained 'Having a well-organised yard and a great team who are all pulling in the right direction is a start. Having the right equipment in place to undertake the work in a safe and productive manner completes the circle.'

And for "the right equipment" the company continues to invest in Liebherr in line with its long-term plan to migrate to an all-Liebherr fleet. 'The fuel efficiency and operator comfort of the Liebherrs are unsurpassed' comments Jordan, hence the latest purchases of a pair of new LH 50 M material handlers to replace a competitor's smaller machines.

Both newcomers arrived equipped with identical front-end configurations comprising GA18 boom and stick to allow a ground level reach of 19m and carrying Liebherr's own GMM 50-5 five-tine, semi-closed scrap grabs with 0.90m³ capacity.



They joined a 38t LH 40 M Industry that was delivered last year and which has impressed with its hydraulic speed, comfort and smooth operation, encouraging Northern Metals to return to the German manufacturer for its latest acquisitions.

Although both machines are identified by the same model number, one is significantly larger due to the introduction of a 1.2m tall pylon that sits in between the chassis and upper carriage. Designated as an LH 50 M Industry High Rise, it increases the standard machine's weight from 42t to 52t and the additional height gained from the pylon means it is ideal for loading shredded material into containers for export around the world.

Both machines were specified with Liebherr's heavy-duty undercarriage with large single wheels and Solideal Magnum solid tyres, sitting on 70t drive axles. Four-point outriggers – each with 550mm x 550mm pads on the low-rise machine and 700mm x 850mm on the high-rise – provide stability even at the furthest reach. Cabs are hydraulically elevating, raising the operator's eye level to 5.7m from the ground and boosting it to just over 8m on the sister model.

The handlers are identical under the skin, featuring Liebherr 4-cylinder, 7-litre D934 engines delivering 211hp. A simple AdBlue system allows the engine to meet the latest emissions regulations while a pair of 237l/min variable displacement pumps provide plenty of hydraulic muscle for simultaneous use of the attachment and drive functions.

The arrival of the new Liebherrs heralds an increase in capacity and throughput at the yard and will cement Northern Metal's position as a leading player in the industry's drive towards a more sustainable future. And its investment comes at the right time, as Liebherr's area sales manager Lee Graver explained: 'The material handling market has never been as competitive, with more and more manufacturers showing a presence. Our production factory in Kirchdorf, Germany is constantly developing and improving our advanced material handling range to ensure we maintain our market leader status, ensure high levels of resale value and offer our customers a machine with low ownership costs.'

Northern Metal Recycling is the north east's largest independent metal recyclers operating from a 20 acre fully licensed metal recycling

'The fuel efficiency and operator comfort of the Liebherrs are unsurpassed'

Jordan Bell, Managing Director





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Welcome to issue 87

Welcome to our fourth edition of 2024 - issue 87.

In this issue the team at Hub-4 present you with another bumper edition reporting on the latest news from the Quarrying/Recycling & Bulk Handling Industries, including our annual feature on **MRF's**.

The second half of 2024:

If you're starting to look at marketing in the last half of 2024 our 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 all our Twitter, Facebook & LinkedIn pages all of which can be linked with electronic web and e-newsletter advertising – why not enquire about our extremely competitive packages.

Equally important is our free weekly e-newsletter which is distributed to our readers and can be found on-line here:

<https://hub-4.com/pages/newsletter>

Finally, our fifth edition of 2024 will focus on **MRF's, and associated equipment** and I welcome any editorial contributions on these topics.

John Edwards
Editor

SEPT | OCTOBER 24



MRF'S & RECYCLING PLANT - MRFs, Shredders, Balers, Metals Recycling, IBA plants, biomass plants, autoclaves, picking stations, hoppers, conveyors, magnetic separation, eddy current separators, air separation, optical & robotic separation, fork lifts & telehandlers, compactors, crushers, screens, spare parts, material handlers, bulk storage bays, weighbridges, belt weighing, dust suppression, wear parts, wind shifters.

QUARRYING - Open topics for this issue

BULK HANDLING - Open topics for this issue

Editorial copy deadline – 11th Sept 2024 Advert copy deadline – 18th Sept 2024



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Published six times a year.

Nine essential tips for a great ADT operator

An efficient articulated hauler operator combines technical expertise, safety and situational awareness with effective communication and a commitment to productivity. Scottish ADT manufacturer Rokbak explains how to master the art of being a successful and trusted articulated hauler operator.

1. Get ready to move

Take control of the hauler and your daily work before the ignition has been switched on by making sure you know the truck. It's important to have a thorough understanding of the truck's controls, capabilities and limitations. This includes knowing how to operate it efficiently and safely in various conditions, such as on gradients, rough terrain or in adverse weather.

2. Check things over

At the start of the working day, prestart checks are essential. A diligent operator conducts routine truck inspections to make sure the truck is ready for work. You should check for pre-existing damage including identifying leaks and loose parts, the tyre conditions, lights and beacons are fully operational, full visibility through the windows and fluid and battery levels daily. Rokbak trucks have ground level test points and a fully tilting cab for quick, easy access when servicing. A thorough equipment walkaround before starting a shift can make a big difference, and it doesn't require a lot of time.

3. Know your limits

Before you start working, learn your worksite boundaries such as speed, ground bearing weight limits, travel direction, passing areas, width and height restrictions and no-go areas. Know your hauler's capacity and ensure you are aware of your truck's working limits with regard to payload. Furthermore, keep an eye on how many buckets the loader is dumping in the truck to stay within the safe operating limits of the ADT and avoid accelerated component wear through overloading. Rokbak provides an optional onboard payload system and exterior payload lights, which indicate to both the truck and loader operators whether the payload is on target or overloaded. This information is recorded and transmitted via the Haul Track telematics system.

4. Safe operation

Follow all site operating procedures when driving the truck. Keep under speed and under control on gradients and check grade guides for safe and controlled descent speed. Correctly use differential locks – you'll want to employ them when you're operating in soft or slippery ground conditions to maintain traction and control. Be aware of what equipment is on your haul route and what sort of traffic you can expect to encounter.



5. Correct usage

The Rokbak RA30 and RA40 articulated haulers have fully enclosed multi-disc brakes on all six wheels plus a retarder to deliver safe, consistent performance. Understanding the correct use of the retarder can prolong the life of the service brakes and reduce maintenance intervals for lower total cost of ownership (TCO). If required, make use of the transmission lock in range or manual shift modes to maintain a steady ascent or descent on gradients.

6. Stay alert

A good ADT operator stays alert to their surroundings, including other workers, vehicles and obstacles on site. They anticipate potential hazards and adapt their driving accordingly to maintain safety for themselves and others. Inevitably there will be challenges, such as navigating tight spaces. An alert operator can quickly assess situations, make informed decisions and take appropriate action to resolve issues while minimising downtime. Never operate an articulated hauler if feeling fatigued or unwell.

7. Keep an eye on targets

Operating an articulated hauler requires attention to detail to ensure proper loading, unloading and manoeuvring of materials. While an integrated payload system can account for the number of loads moved, manually recording progress in relation to a target keeps productivity proceeding on schedule. For improved fuel efficiency, minimise heavy acceleration and aim to reduce unnecessary idle time whenever feasible.

8. Don't ignore fault codes

Critical information is delivered whenever system fault codes are triggered. If a Rokbak truck does develop a fault, the operator will receive a warning symbol on the dashboard. Faults should be reported when they occur as continuing

operating could exacerbate the issue. Following the truck's advice means increasing uptime by avoiding potential disruptions, and effective communication with site supervisors, co-workers and other equipment operators is crucial for coordinating tasks and ensuring smooth operations.

9. And in the end...

At the end of a shift, follow the correct shutdown procedure. Allowing the truck to idle for a brief period at the end of a long workday enables the coolant to circulate through the engine. This helps to gradually lower the temperature, preventing potential damage from frequent 'hot shutdowns' over time. Adhering to the correct maintenance and start-up and shutdown procedures will help to keep operation costs low.



Liebherr premiere: first large wheel loader with hydrogen engine and first hydrogen filling station in Salzburg

- World's first prototype large wheel loader with hydrogen engine presented at the Liebherr plant in Bischofshofen
- Opening of the first hydrogen filling station in the state of Salzburg
- Hydrogen-powered combustion engines are ideal for large machines which are difficult to electrify
- Hydrogen engine enables zero emissions of greenhouse gases and almost no nitrogen oxides

Liebherr pressing ahead with phasing out fossil fuels and preparing solutions to decarbonise construction sites, gravel plants etc. The Liebherr plant in Bischofshofen celebrated two groundbreaking events: the presentation of the first large wheel loader with a hydrogen engine and the opening of the first hydrogen filling station in the state of Salzburg.

At a trade event at the Liebherr plant in Bischofshofen, the world's first large wheel loader with a hydrogen engine was recently presented to high-ranking representatives from politics and business. The event included a series of talks on the topic of alternative drives. However, the focus was on Liebherr's impressive machine show, where the hydrogen wheel loader was demonstrated for the first time in practical use.

At the same time as this world premiere, the first hydrogen filling station in the state of Salzburg was inaugurated, representing an important milestone in the use of hydrogen as a sustainable energy source. "To make progress in hydrogen research, we need to have access to hydrogen. We built this filling station to further advance our goals for decarbonising construction machinery," says Dr.-Ing. Herbert Pfab, Chief Technical Officer of Liebherr Bischofshofen.



The hydrogen refuelling station was officially opened at the plant site in Bischofshofen



The Liebherr plant in Bischofshofen presented the first large wheel loader with a hydrogen engine.





Refuelling takes place at the company's own hydrogen filling station on the Liebherr factory premises

Prototype L 566 H is the world's first wheel loader with a hydrogen engine

The L 566 H from Liebherr is the world's first prototype large wheel loader with a hydrogen engine. Following extensive studies, this groundbreaking technology was identified as the optimal solution for operating large vehicles that are difficult to electrify without CO₂ emissions.

For smaller vehicles up to about 15 tons, battery-electric solutions are often suitable. However, the situation is different with larger machines with an operating weight of up to 40 tons and high energy requirements. Hydrogen reciprocating piston engines prove to be ideal in this case.

These hydrogen engines are manufactured at the engine plant of Liebherr's Components product segment in Bulle (Switzerland). They enable not only zero emissions of greenhouse gases and almost no nitrogen oxides, but are also highly efficient. Another advantage is that the interfaces are comparable to those of a diesel engine - thermally and mechanically. This represents a significant step forward in the development of sustainable large-scale machinery.

Another highlight of the show was a MAN truck, also with a hydrogen engine. This shows that hydrogen technology is not only feasible in wheel loaders, but is already used in construction site trucks.

First hydrogen filling station in the state of Salzburg

As part of the development of the hydrogen wheel loader, Liebherr Bischofshofen opened its own hydrogen filling station – the first of its kind in the entire state of Salzburg. An important strategic partner in this project is Maximator Hydrogen, which is not only the manufacturer of the newly opened filling station, but also a research partner of Liebherr. Together, they are working on mobile filling facilities so that machinery can be refuelled directly at the construction sites. This is particularly important for remote construction sites and machines that are not very mobile.

Another reliable partner is MPREIS, which ensures the supply of green hydrogen. This is important because only through emission-free production – using wind, hydroelectric or solar energy – can hydrogen play a key role as a sustainable and climate-friendly energy source.



The large wheel loader with hydrogen engine was demonstrated in practical use during a machine show.

How to Effectively Evaluate the Success of your Event



Trade shows are pivotal for industries like quarrying, recycling, and bulk materials handling. They offer a unique platform for networking, showcasing innovations, and generating business leads. To maximise benefits, it's crucial to evaluate the success of these events effectively. Key metrics for assessing trade show success include Return on Investment (ROI), Return on Objectives (ROO), visitor feedback, team feedback, and other relevant outcomes.

Investment (ROI), Return on Objectives (ROO), visitor feedback, team feedback, and other relevant outcomes.

Return on Investment (ROI)

ROI is a fundamental metric for evaluating trade show success. It measures financial return compared to the cost of participation. To calculate ROI, consider:

1. **Direct Sales:** Immediate revenue generated from leads and deals closed at the trade show or afterward. This can be hard to measure as the lead time between a show and an eventual deal can be lengthy.
2. **Lead Generation:** Potential future revenue from leads acquired during the event.
3. **Cost Savings:** Reduction in marketing and sales expenses due to direct interactions at the show.



Return on Objectives (ROO)

While ROI focuses on financial returns, ROO assesses whether non-financial goals were met. These objectives might include:

1. **Brand Awareness:** Measuring the increase in brand recognition and presence in the industry.
2. **Product Launch Success:** Gauging the reception and interest in new products introduced at the show.
3. **Market Research:** Gathering valuable insights about industry trends, competitor activities, and customer needs.

ROO can be evaluated through predefined KPIs such as the number of product demonstrations conducted, media mentions, and social media engagement. ROO is just as important as ROI.

Visitor Feedback

Visitor feedback provides qualitative data that can inform future participation strategies. Effective methods for collecting feedback include:

1. **Surveys and Questionnaires:** Be careful with these during live events as they can impact on your visitor experience. Post event these can be effective though.
2. **Interviews:** Conducting brief interviews with visitors can yield in-depth insights.

Key questions to ask might include:

- What drew you to our booth?
- How would you rate our product presentations?
- What improvements would you suggest?

Team Feedback

Your team's perspective is equally important in evaluating a trade show's success. They can provide insights into:

1. **Booth Engagement:** Assessing which tactics effectively attracted and retained visitors.
2. **Operational Efficiency:** Evaluating the setup, management, and dismantling processes.
3. **Lead Quality:** Judging the calibre of leads collected.

Team feedback can be gathered through debriefing sessions and structured feedback forms post-event. This ensures your team feels part of the process and helps shape future shows.



Other Outcomes

Consider other hard and soft outcomes to gain a comprehensive evaluation:

1. **Hard Outcomes:**
 - **Customer Acquisition Cost (CAC):** The total expense of acquiring a new customer through the trade show.
 - **Conversion Rates:** The percentage of leads converted into customers post-event.
2. **Soft Outcomes:**
 - **Networking Opportunities:** The value of new connections and potential partnerships formed.
 - **Brand Positioning:** The perceived enhancement of your brand's industry standing.

Final Thoughts

Evaluating the success of a trade show involves a multifaceted approach, combining quantitative metrics with qualitative insights. ROI and ROO provide a solid foundation, while visitor and team feedback offer a deeper understanding of performance. Other outcomes, both hard and soft, enrich the evaluation, ensuring a holistic view of the event's impact. Effective evaluation of trade show participation not only justifies investment but also shapes future strategies for greater success.

4B Group Introduces IE-GUARDFLEX - Distributed Hazard Monitoring Solution

4B Group proudly announces the launch of their Distributed Hazard Monitoring Solution (DHMS) featuring the IE-GuardFlex. Leveraging advanced industrial Ethernet technology, the IE-GuardFlex control unit seamlessly connects and monitors sensors across multiple machines using 4B's state-of-the-art IE-Node technology. This robust system can be configured for multiple machines, IE-Nodes, and sensors, directly interfacing with machine control centres to initiate shutdowns upon detecting potential risks.

Ideal for central control rooms and "non-hazardous areas," the IE-GuardFlex connects to IE-Nodes in "at-risk zones" via industrial CAT6 Ethernet cables. Monitored machinery includes bucket elevators, enclosed and open conveyors, chain conveyors, rollers, and more. ATEX-certified sensors connected to local IE-Nodes monitor critical conditions like belt slip (SlipSwitch, Milli-Speed), belt misalignment (TouchSwitch, Bulldog), bearing temperatures (ADB, Milli-Temp), vibration (Milli-Vib), and blockages (Binswitch).

Engineers can easily locate and configure nodes using the intuitive 7" colour touchscreen interface. The system supports up to 3 different ALARM / STOP configurations per sensor, with output relays assignable to alarm and/or stop conditions per sensor or per machine. Common ALARM / STOP relays indicate alarms or stops across any connected sensor.

"The IE-GuardFlex system has been developed to empower facility engineering and maintenance staff to implement a



comprehensive, de-centralised hazard monitoring system, using the simple and intuitive programming interface", explains Sam Payne, 4B Group CTO for electronics. "This eliminates the need to implement the hazard monitoring system into the plant process control system / PLC and hence means there is NO special PLC programming software required, No need for specialist and expensive control system engineers, NO additional PLC capacity and SCADA tags and NO plant disruption during implementation. Separating the plant control and hazard monitoring systems also provides an extra layer of redundancy and reliability."

More information 4B's website:

<https://go4b.co.uk/products/electronic-monitoring-equipment/hazard-monitors/ie-guardflex/534>

Eriez® Introduces New Models in Suspended Electromagnets Line

Eriez® announces the launch of its new SEV series of Suspended Electromagnets, representing a significant advancement in suspended electromagnet design. These units feature stronger magnets housed in smaller enclosures, reducing overall weight and installation costs while optimizing performance efficiency.

Integrated into the Eriez SE7000 line, the new SEV models leverage cutting-edge wire and conductor technology to energize the magnet circuit, also requiring less coolant for operation. The new wire configuration, boasting an ultra-thin anodized insulation layer, provides superior thermal conductivity, ensuring high heat dissipation within the circuit for improved magnet performance. Despite the compact size, these magnets deliver performance that surpasses larger counterparts, guaranteeing consistent and reliable operation.


Dave Heubel, Eriez Global Magnetics Product Manager, emphasizes the practical benefits of the SEV series' innovative design: "As part of our commitment to continuous improvement, we've succeeded in packing more magnet strength into a smaller footprint, thereby lowering costs and



boosting productivity for customers through streamlined installations and more stable, dependable performance."

Eriez also offers self-cleaning versions of all SEV models. Additionally, a variety of options are available, including dust hoods, coils derated for elevation, high fire point coolants, armor-clad belts and numerous other customizable features for every unique application.

For more information about the Eriez SE7000 line of Suspended Electromagnets, visit <https://www.eriez.com/NA/EN/Products/Magnetic-Separation/Electromagnets/Suspended-Electromagnets.htm>.



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Transforming waste and recycling workplace safety with ZoneSafe

It's no secret that waste management and recycling is considered a high-risk industry. Workers face potential safety threats daily in what is a diverse and highly dynamic working environment.

Latest HSE fatal accident data for 2023/24 reports four workplace fatalities within waste and recycling. The HSE has long recognised the potential threats to worker safety associated with the sector. In 2021, a safety notice was issued concerning the use of wheeled shovel loaders following nine fatal accidents over a four year period, six of which occurred within waste and recycling.

This history highlights the critical need for continuous improvement in safety protocols across the sector. The necessary use of vehicles continues to present one of the greatest challenges to workplace safety, with 25 fatal accidents being attributed to 'being struck by a moving vehicle' across all sectors in the 2023/34 fatal accident figures.

ZoneSafe Proximity Warning solutions

ZoneSafe proximity warning systems offer waste and recycling businesses a highly effective solution that can be easily applied to common industrial machinery, such as shovel loaders and forklifts, with minimal disruption to operations.

The system features an antenna and in-cab control unit fitted to the vehicle to create an invisible 360-degree detection zone around it. Workers and visitors are assigned lightweight tags worn or placed in the pocket that directly interact with the vehicle using RFID technology. Once the detection zone around the vehicle is breached, ZoneSafe automatically raises an audio/visual alarm that alerts drivers and pedestrians to the risk of a potential collision, raising awareness and ultimately stopping an accident before it takes place.

Active Signage

In addition, ZoneSafe's Sensor-Activated Warning Signs offer another flexible solution. The system automatically activates



dormant signage with flashing lights as vehicles approach, raising awareness at crucial moments. Active signage works by grabbing attention at the right moment to reduce the risk of collisions and is highly effective at blind spots, corners, roller doors, intersections, and areas of reduced visibility.

The team at ZoneSafe is highly experienced in meeting site-specific safety concerns, and the system has already been successfully installed at various waste and recycling centres throughout the UK.

Kevin Edwards, Site Manager at glass recycling company Recresco, is highly impressed with ZoneSafe:

"ZoneSafe has improved our onsite safety 100%"

Read the full case study here -

<https://zonesafe.com/casestudy/glass-processing-plant-recresco-investsin-safety-system-to-protect-pedestrians/>

The ZoneSafe team will be exhibiting at this year's RWM Conference. Visit Stand ME-B 191 to discuss your onsite safety concerns with the team and see a demonstration of ZoneSafe Active Signage in action.

www.zonesafe.com



Develon to expand Waste and Recycling Range at RWM Show

On Stand ME-A120, Develon, formerly known as Doosan Construction Equipment, is using its first appearance at the Resource & Waste Management show to premiere the very latest in waste and recycling equipment from the company.

Develon already offers a broad selection of products for material handling in waste and recycling applications. These include the company's award-winning DL-7 range of wheel loaders (covering capacities from 1.9 to 6.4 m³), which can be used with a Waste and Recycling Kit designed to help operators work safely in the hazardous conditions that often accompany waste handling and recycling applications, including contending with airborne dust, dirt and other dangerous particulates and materials.

Award-winning DL-7 Wheel Loaders

The DL-7 wheel loader range from Develon offers a complete line of next generation machines with an award-winning design, driven by powerful Stage V compliant engines and providing higher productivity, increased fuel efficiency and a low cost of ownership, coupled with a fantastic environment and experience for the operator. All DL-7 wheel loaders feature redesigned buckets offering up to 7% more capacity for easier and faster loading with standard bucket capacities from 1.9 to 6.4 m³. This provides increased productivity for a very wide range of material-handling applications.

A Comprehensive Choice of Waste & Recycling Products

As well as the DL-7 wheel loaders, Develon also provides the DX230WMH-7 (24 t) and DX250WMH-7 (25.6 t) Stage V compliant material handlers, as well as full lines of mini, crawler and wheeled excavators (with operating weights from 1 to 100 t), articulated dump trucks (with maximum payloads



up to 41 t) and compact wheel loaders (from 3.5 to 5 t).

The DX230WMH-7 and DX250WMH-7 material handlers are designed to carry out the toughest tasks across a wide range of material sorting and handling applications such as those in the handling of scrap metal and other solid waste, recycling, demolition and in the forestry industry. As a result, both machines are built with front and rear stabilizers, and a boom and arm specifically designed for material handling tasks.

Develon also offers products with alternative power sources using battery, fuel cell and hydrogen technology and there is a comprehensive selection of attachments for use with all of these machines.

Providing increased peace of mind for the customer, the high reliability and quality of the Develon range is backed up by a standard full 3 year/5000 hour warranty.

For more on DEVELON, please visit the website:
<https://eu.develon-ce.com/en/>



Certora Training to showcase new E-Learning Course at the RWM Exhibition



The RWM Exhibition is fast approaching, and Certora Training are excited to be exhibiting at the show for the second year running.

Certora are returning to the RWM Exhibition this year to promote their extensive catalogue of industry specific training courses and CIWM qualifications, including their Continuing Competence Revision e-Learning course, new for 2024.

Speak to their team on stand RS-H112.

Continuing Competence Revision Course

Once primary competence has been gained, technically competent managers (TCM) are required to take the CIWM Continuing Competence test every two years to demonstrate that they have retained their knowledge and kept up to date with the latest standards and best practice.

As a CIWM approved centre, Certora deliver a CWIM Continuing Competence Revision course either in-person, or virtually. It is designed for those who want to update their technical competence prior to taking the CWIM touch screen test at a Pearson View Centre.

New for 2024, Certora have developed the Continuing Competence Revision e-learning course. Offering more flexibility, this modularised course can be completed at the learner's own place, making it more accessible for those who work multiple shift patterns.



CIWM Qualifications (WAMITAB)

Certora offers a complete range of CIWM qualifications for all permitted facilities in low, medium, or high-risk environments. Their e-portfolio system allows for a seamless process, enabling managers and supervisors to have full visibility of learner progression and milestones.

In recent months, Certora have been approved for a new unit on their CIWM Level 4 VRQ (Vocational Related Qualification) Waste and Resource Management qualification: Principles and Practices of Managing a WEEE Facility. For those that work on an electrical and electronic equipment waste site, can now take either the VRQ or the on-site assessment route to become technically competent.

Managed Training Service

If your business is looking for a robust training service to support your busy operations with operational compliance training and qualifications, then Certora's Sourced Training team can help. Certora has a vast amount of experience of delivering equipment operator training, qualifications directly but their Managed Training Services provides businesses with access to over 110 industry specialist suppliers in just one call.

The Sourced Training team will manage, coordinate, administer, review, and facilitate all operational training requirements, even uploading completion data into your Learner Management System

With the support of 110 expert training providers, Certora can support you with any training request from drone training to conflict management, confined space training to first aid.

Speak to a member of our team at RWM on stand RS-H112.



The course is written around the syllabus for the CIWM Continuing Competence Test and provides key updates on Legislation, Healthy & Safety and Environmental Protection, as well as site-specific activity. It includes practice questions to support those in their revision for their upcoming test.



AT DOYLE MACHINERY, OUR COMMITMENT TO EXCELLENCE DRIVES US TO PROVIDE TOP-OF-THE-LINE MECHANICAL HANDLING AND PROCESSING MACHINERY TO VARIOUS INDUSTRIES IN THE UK AND IRELAND. WITH A FOCUS ON RECYCLING, CONSTRUCTION, SCRAP METALS, DEMOLITION, QUARRYING, ENERGY, AND PORTS, WE AIM TO MEET THE DIVERSE NEEDS OF OUR CLIENTS.



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Arjes COMPAKTOR 300

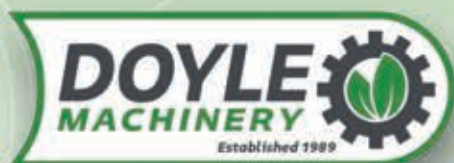
By partnering with world-renowned OEM brands Arjes, Eurec, Willibald, Ufkes Greentec, Steinert, Barford, Screenbee, Menart, Sibilia and Dupuy Industrial Vacuum Systems, we ensure that our customers receive the highest quality products and solutions available in the market. Our range of machinery is designed to enhance efficiency, productivity, and sustainability across various sectors, making us a trusted partner for businesses looking to elevate their operations.

Doyle Machinery prides itself on our expertise, reliability, and customer-centric approach. We are dedicated to delivering innovative solutions that empower our clients to succeed in their respective industries. With a focus on quality, performance, and customer satisfaction, we are

committed to being the premier choice for all your mechanical handling and processing machinery needs.

Doyle Machinery Limited will be exhibiting, as well as a live demonstration at RWM this year at Stand LR40 where you can explore our wide selection of machinery on display. Our Area Sales Managers will be there to assist you with any questions you may have, or simply to share a friendly chat over a drink or two. We are committed to providing top-quality machinery and excellent service, and we look forward to showing you why we are 'The Home of Great Machinery'.

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TOMRA to showcase its world-class sensor-based sorting solutions at RWM Expo 2024

Visitors to RWM Expo 2024, which takes place on

11-12 September at the NEC in Birmingham, will have the opportunity to find out about TOMRA's pioneering GAINnext applications to separate food-grade from non-food-grade plastics, as well as other world-class sensor-based sorting solutions.

Representatives from TOMRA will be on hand at Stand ME-E200 to highlight the latest developments in sensor-based sorting technology for waste and metals.

A key focus for TOMRA at this year's show will be three new revolutionary applications to separate food-grade from non-food-grade plastics for PET, PP and HDPE. GAINnext™ is a deep learning-based sorting add-on for TOMRA's world-renowned AUTOSORT™ units. By combining sensor-based material identification and deep learning object recognition, TOMRA is the first in the industry to be able to quickly and efficiently separate food-grade from non-food-grade plastics for PET, PP and HDPE on a large scale. GAINnext™ has made food-grade sorting a reality – and has made it possible to achieve higher than 95% purity rPET, rPP and rHDPE – the level EU regulation requires to fulfil food safety standards.

Other waste sorting solutions that TOMRA will be showcasing at this year's event include the latest version of INNOSORT™

FLAKE which was launched in late 2023 and AUTOSORT™ SPEEDAIR. Capable of simultaneously detecting polymers and colours, INNOSORT™ FLAKE is designed specifically for high-throughput purification of plastic flakes. AUTOSORT™ SPEEDAIR is designed for high-speed, high-purity intelligent sorting of plastic films and lightweight packaging.

Those visitors interested in TOMRA's metals sorting solutions will be able to learn about AUTOSORT™ PULSE – a dynamic laser induced breakdown spectroscopy (LIBS) solution for sorting aluminium scrap by alloy; FINDER™ for ultra-flexible sorting of non-ferrous metal and X-TRACT™ for powerful precision x-ray sorting of aluminium from heavy metals.

Representatives from the pioneering start-up PolyPerception which offers AI-based waste flow monitoring will also be on Stand ME-E200, with TOMRA having acquired a 25% stake in PolyPerception earlier this year. TOMRA's advanced material sorting systems and cloud-based monitoring solution, TOMRA Insight, combined with PolyPerception's innovative waste analysis solution are enabling PET recyclers and sorting plants to optimise the entire recycling process and material flow.

Terry Keyworth, Sales Manager UK and Ireland at TOMRA Recycling, comments: "We're looking forward to being back at RWM again this year. It's always a great networking opportunity which attracts a vast range of professionals from across the waste management industry. The show is an ideal platform for us to highlight our latest product developments and talk to existing and potential customers about the many ways in which we can optimise resource recovery and help close the loop on a vast range of materials."

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STEINERT is presenting 4 new products at RWM 2024

As a leading provider of sorting solutions in metal and waste recycling, STEINERT is presenting four new sorting systems and add-ons all at once at RWM.

A new benchmark for sorting aluminium alloys - STEINERT PLASMAX® | LIBS

New product 1: STEINERT PLASMAX | LIBS allows three products to be sorted in one cycle

The latest development from STEINERT enables efficient separation of aluminium scrap into three different sorted products. With a high processing capacity and three material discharges at the same time, the new STEINERT PLASMAX | LIBS makes what is probably the most efficient processing of high-grade aluminium scrap possible and therefore meets all current industry standards. The novel multi-spot analysis ensures optimum and reliable detection using several laser measurement points at the same time.

Karl Hoffmann, Global Sales Director Metal Recycling at STEINERT, summarises what drove the development: "Precise sorting of aluminium alloys with the STEINERT PLASMAX | LIBS delivers quality levels that produce an excellent basis for the increase in demand for recycled aluminium. Given the need to decarbonise the automotive industry and its supply chains, greater use of high-grade recycled materials is essential."

New product 2: More throughput and proven sorting quality for bulk material with UniSort Finealyse+

As a powerful addition for demanding applications, the UniSort Finealyse+ complements the proven UniSort Finealyse for sorting fine-grain bulk material. Specially designed for sorting plastic mixes, copper scrap and heavy metal and non-ferrous metal concentrates, it has numerous new features.

The most of these are the working width, which is almost double in size, the higher throughput rates and a new split functionality for simultaneous multiple sorting processes on one machine. A core element of the detection unit is the sensor combination of high-resolution near-infrared (NIR) and colour camera technology. Based on hyperspectral imaging (HSI), NIR camera technology combines maximum spatial and spectral resolution. The additional colour camera records further visual material properties at the same measuring point and ensures stable and precise detection in combination with an automatic white balance.



UniSort Finealyse®+ for sorting fine-grain bulk material like plastic mixes, copper scrap and heavy metal and non-ferrous metal concentrates.

New product 3: Incineration bottom ash add-on for STEINERT eddy current separators smooths out variable material properties

Splitcontrol, the latest add-on for STEINERT eddy current separators, optimises the sorting quality of incineration bottom ash and additional fine-grain applications. Changes in the material properties, such as residual moisture, can be counteracted with this automatic control technology. Splitcontrol ensures consistently high yield rates and high operational stability. Manual interventions for splitter correction can be reduced to a minimum.

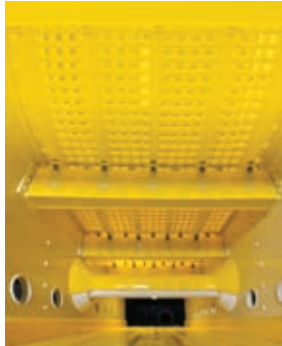
New product 4: Higher quality of ferrous concentrates and removal of impurities

The STEINERT UMP multi-pole is the innovative solution for enriching or cleaning ferrous concentrates. Through the use of alternating magnetic poles, non-magnetic impurities are effectively removed, meaning that the quality of non-ferrous fractions is improved. Copper losses in ferrous concentrates can be significantly reduced in Waste Electrical and Electronic Equipment (WEEE) applications. This technology is easy to integrate in existing systems and offers a cost-effective alternative to conventional cleaning methods.

Visit us at RWM 2024 booth ME-C252

TEMA Isenmann Ltd - Stand Number ME-B180

TEMA Isenmann Ltd are widely recognized as a leader in the design and manufacture of industrial screening systems, will once again be exhibiting at RWM.



On show will be the genuine Isenmann WS85® which is the proven world-wide industry standard, the most versatile and cost-effective modular screening system, it achieves excellent results in all separation sizes for many varied applications.

Alongside this will be the innovative WS2.10® also available in screen panels and modules with its unique fixing system that is compatible with our original WS85®.

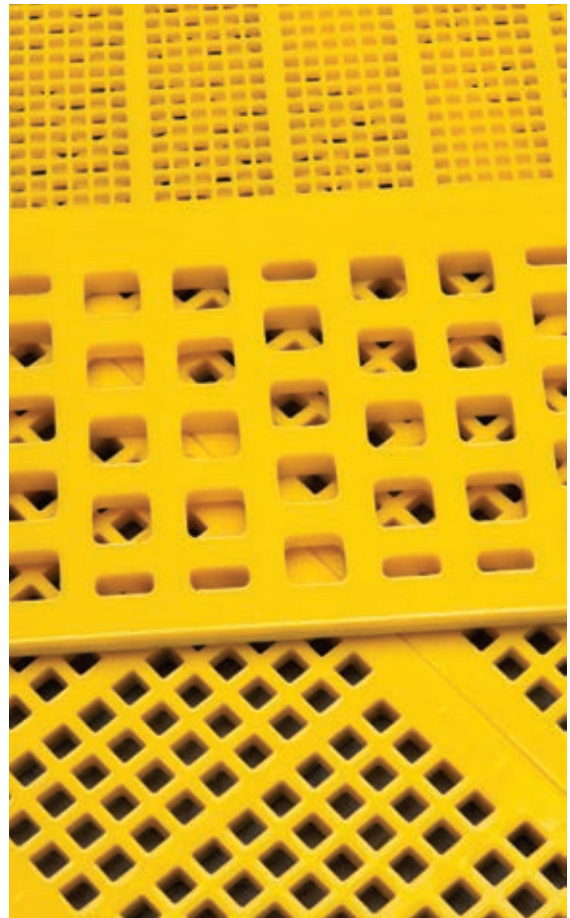
Plus the Iseflex® range of polyurethane coated wire meshes, finger screens, flat bolt down modular panel assembly and cross member protection will also be featured on the stand.

TEMA Isenmann – the one-stop provider for screening media solutions, we look forward to meeting you at RWM 2024.

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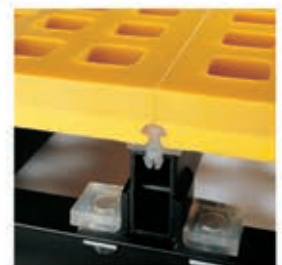
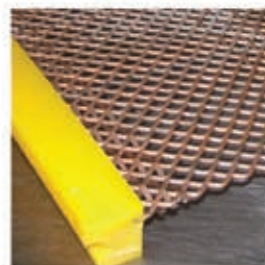
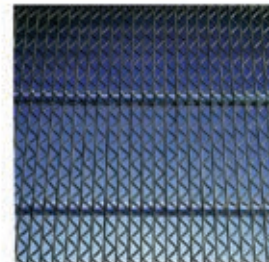
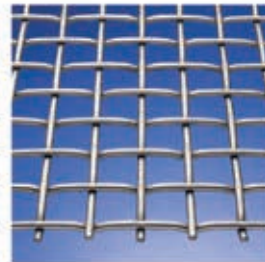
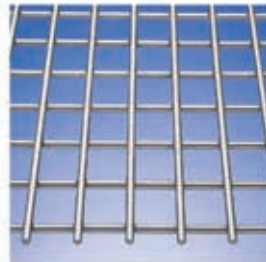
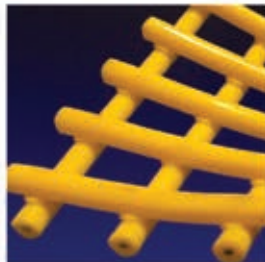
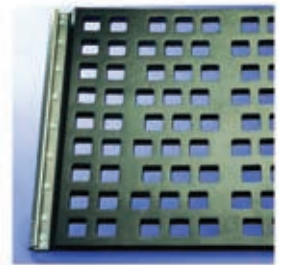
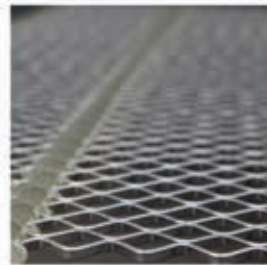
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REP-TEC's Twin Ram Balers Set New Standards in Efficiency and Performance for Plastic Recycling Companies

With the increasing demand for recycled plastics, the need for reliable and powerful baling technology becomes paramount. For MRF operators, high-density bales keep transport costs to a minimum and a high degree of purity, coupled with high throughputs increases value. REP-TEC, who design and manufacture fully automatic balers in Co. Tyrone, N. Ireland are helping operators achieve this and a lot more. Their high performance, twin ram balers are setting the standard for efficiency and performance in this industry, as evidenced in recent installations at Berry Circular Polymers and IPL Global.

High Density and Consistent Bales for Berry Global

A twin ram baler is ideal for processing hard plastics and expansive materials such as PET. The compaction is done against a solid fixed wall within the baling chamber, resulting in high compaction and heavier bales. The final bales are also consistent and uniform which helps reduce transport costs.



This was evidenced at Berry Circular Polymers, where REP-TEC installed their twin ram baler. Berry, a global plastics packaging manufacturer, required a fast and efficient way to bale mixed PET and HDPE plastics at one of their UK recycling facilities. The REP-TEC Samson model installed has an 80T compaction force and is powered by a very efficient 37kW hydraulic power unit. The bales produced

from this machine at Berry are of a high density, making them easier to handle and transport, resulting in cost savings. The large capacity also allows Berry to process more materials in a shorter amount of time.





Switching Between Various Types of Plastics

The types of plastics that require baling are diverse, ranging from plastic film—clear, coloured, and mixed—to hard plastics such as HDPE and PET. Switching between these during the baling process and ensuring no contamination is essential. This was of upmost importance to IPL Global, who recently installed a new REP-TEC twin ram baler at their site outside Leeds. IPL, a leading packaging provider, required a replacement for their ageing baler and they wanted to employ a baler which was capable of handling increased throughput and mixed plastics with no cross-contamination. With IPL baling various types of plastics such as PET, HDPE and residual waste, the REP-TEC twin ram baler was the ideal solution for them as one material stream can be baled off and ejected before switching to the next. The machine clears out the baler chamber each time so cross-contamination is avoided. The fast cycle times, on the REP-TEC twin ram baler, also ensured IPL were able to increase their throughputs.



Reliability and Service is Vital

For MRF operators, a dependable baler is crucial - downtime is not an option. REP-TEC recognise this, and they prioritise reliability in their balers. They collaborate closely with customers from the beginning, customising the baler to meet specific needs, and continue to provide support long after installation. REP-TEC ensures operators receive comprehensive training across multiple shifts and promptly addresses any initial issues, going above and beyond to prevent operational downtime.

James, Engineering Supervisor at IPL Global back this up, "I have never experienced service like it from any manufacturer. REP-TEC's dedication to resolving issues without disruption is unparalleled and proves that their service and support surpass any in the market."

Darryl at Berry Global also agrees, "The REP-TEC team was very professional and efficient during the installation process... They were in and out of the site quickly, leaving the place clean and tidy. They have provided us with all the necessary support and guidance, and I would highly recommend a REP-TEC baler to anyone looking for reliable and high-quality baling equipment."

In an industry where efficiency, reliability, and performance are paramount, REP-TEC's twin ram balers have set a new benchmark. The increasing demand for recycled plastics underscores the need for advanced baling technology, and REP-TEC has proven its ability to meet and exceed these requirements. With installations at Berry Circular Polymers and IPL Global, their balers demonstrate the capability to produce high-density, consistent bales, reducing transport costs and increasing throughput.

By continually advancing their technology and maintaining a strong focus on customer satisfaction, REP-TEC is helping MRF operators achieve higher standards in plastic recycling, contributing to a more sustainable future.



Enhanced Baling with Wire Ties and Smart Systems

It can be tricky to keep plastic bales together. REP-TEC's twin ram balers are equipped with wire tie options that ensure secure and stable bales. The ability to double tie the ends and customise the number of ties used provides flexibility, maintaining the integrity of bales during stacking and export. The tying mechanism tightly knots the wire, reducing the likelihood of breakage and minimising wire usage.

Additionally, REP-TEC's smart system calculates the precise amount of material needed for each bale, ensuring consistent bale sizes every time. This consistency is crucial for efficient transport and handling, streamlining the logistics of recycling operations.



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Material Separation with Flip Flow Screens

Traditional rigid screens are often pushed to their limits when handling difficult materials in industrial screening and separation. Wet, sticky, or fine particles can quickly clog conventional screens, leading to reduced throughput, excessive downtime for cleaning, and decreased operational efficiency. However, Flip Flow Screens, also known as Bivitec, Binder, or Spaleck mats, offer a unique approach to tackling even the most challenging screening applications.



Flip Flow Screens operate on a fundamentally different principle than conventional rigid screens. Instead of a static, unyielding screening surface, these innovative screens are designed to undulate and flex as material flows over them. This dynamic movement allows smaller particles to effortlessly pass through the screen openings, while larger particles are efficiently separated and discharged. The result is a screening process that is remarkably effective for separating wet, sticky, or fine materials, as well as those with high moisture content – materials that would typically cause significant issues on traditional screens.

One of the key advantages of Flip Flow Screens is their ability to minimize clogging and blinding, common problems that can severely impact screening efficiency. By allowing the screen surface to constantly flex and move, the risk of particles becoming trapped or adhering to the screen is significantly reduced. This not only improves overall screening performance but also dramatically minimizes the need for frequent manual cleaning or maintenance, resulting in increased uptime and cost savings.

Beyond their screening capabilities, Flip Flow Screens offer several other notable benefits. They are particularly well-suited for applications where noise pollution is a concern, as their flexible design minimises the impact and vibration associated with rigid screens. This makes them an ideal choice for screening operations in noise-sensitive areas or close to residential or commercial areas.

Flip Flow Screens are available in a range of configurations to meet diverse application requirements. They can be manufactured with square or slotted holes, arranged in inline or staggered patterns, and come with bolted, moulded, or plain edges. Additionally, customisable blank margins further enhance their versatility, allowing for seamless integration into existing screening systems and plant setups.

Flip Flow Screens have been adopted widely across various industries, including mining, quarrying, aggregates, and waste management, among others. They are particularly well-suited for use in wash and Spaleck type plants, where their ability to handle challenging materials is paramount. By deploying Flip Flow Screens, these operations can achieve significant improvements in throughput rates, reduce blinding and pegging issues, and enjoy enhanced overall screening efficiency.

At Harpscreen we supply high-quality Flip Flow Screens. Our state-of-the-art manufacturing facilities, located in the UK, ensure timely delivery and exceptional quality, backed by our commitment to customer satisfaction. With extensive experience and expertise in the screening industry, our team can assist you in selecting the optimal Flip Flow Screen to meet your specific needs.



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HarpScreen is the UK's **LARGEST** manufacturer of screening media.

Pioneers of Sustainable Recycling Solutions

Everybody is talking about sustainability, and so they should be. In today's world, environmental consciousness is paramount, and businesses strive to become more sustainable, manufacture sustainable products, and champion sustainability.

One company that has always had these values at its core is Kiverco Ltd, renowned for manufacturing the World's Toughest Recycling Plant. Kiverco plants last longer than any others in the industry, embodying true sustainability. When people talk about Kiverco, they know they are talking about a robust, durable product built to last.

Kiverco's credentials comes from Aidan McKiver, owner and director, who embodies sustainability with his motto, "do it once, do it right." Instead of settling for the first solution, he pushes for the best one each time. By the time a product transitions from design to production, it is the best it can be. This excellence in engineering results in robust products that last much longer. Proof of this is a Kiverco recycling plant built over 20 years ago that is still operational today.



A recent collaboration between Kiverco and Gray's Recycling Services in Scotland exemplifies this. Gray's Recycling, a family-owned business since 1994, first invested in a small Kiverco recycling plant in 2017 to expand its recycling capabilities. Impressed by Kiverco's machinery, they expanded again in 2019 with additional equipment, including conveyors, a trommel, a feeder, a magnet, a flip flow screen, and a density separator DS150. This laid the foundation for a successful partnership based on trust and reliability.

In 2023, Gray's Recycling continued to upscale its operations. They turned to Kiverco again, resulting in an impressive new plant installed in January 2024. By integrating new technology and reconfiguring its existing plant, Gray's Recycling Services doubled its capacity and capability, positioning itself at the forefront of sustainable waste management practices.

Kenny Gray, Director at Gray's, emphasised the company's unwavering commitment to sustainability and innovation. The investment in upgrading their plant represents a significant milestone in their journey towards a greener, more efficient operation. With Kiverco's support and expertise, Gray's Recycling Services is well-positioned to meet the challenges of a rapidly changing industry while minimizing its environmental footprint.

Marcus McAlinden, Sales Manager at Kiverco, echoed Kenny Gray's sentiments, highlighting the company's dedication to customer satisfaction and sustainability. Kiverco ensures its customers achieve optimal performance and long-term success by providing world-class and sustainable machinery and unparalleled aftercare service. The collaboration with Gray's Recycling Services serves as a testament to the effectiveness of Kiverco's recycling plants in driving sustainable change.



The upgrades at Gray's Recycling Services not only enhance operational efficiency but also contribute to the broader goal of building a circular economy. By expanding its capacity to recover a wider range of waste, especially from construction, Gray's Recycling Services is reducing environmental impact and promoting responsible waste management practices.

At the core of Kiverco's mission is a steadfast dedication to sustainability. Their recycling plants are not merely machines; they represent a vision for a greener, cleaner future. Engineered with precision and care, Kiverco plants are designed to withstand the test of time while minimising environmental impact. With a focus on durability and adaptability, Kiverco offers solutions that evolve with the industry's changing needs.

As the world faces pressing environmental challenges, the need for sustainable recycling solutions has never been more urgent. Kiverco's commitment to sustainability extends beyond rhetoric; it is embedded in every aspect of the company's operations. Aidan's influence is evident throughout the business, guiding the design, engineering, and manufacturing of tough, robust recycling plants. Through their innovative designs and dedication to customer satisfaction, Kiverco is leading the charge towards a more sustainable future.

With Kiverco by their side, companies like Gray's Recycling Services are investing not just in machinery but also in a brighter, cleaner future. As the demand for sustainable recycling solutions grows, Kiverco remains at the forefront, empowering businesses to make a meaningful environmental impact while ensuring long-term profitability and success. Kiverco's pioneering approach is reshaping the industry, setting new standards for excellence in recycling technology. As we look towards the future, one thing is clear: with Kiverco leading the way, the possibilities for a cleaner, greener world are endless.

A world without landfill! Where waste is a resource to sustain a carbon neutral global economy



Turmec is constantly evolving to move with the change in waste streams and is continuously investing in developing new ways to process waste. Turmec have launched a new Aftersales CRM system, the next generation of rapid solutions providing customers with one central place to order spare parts and services and achieve a faster response time.

Turmec design and build innovative, cost effective, easy to operate, environmentally sustainable engineering solutions

With more than 50 years' experience in the engineering and recycling industries Turmec offers planning, design, manufacturing, installation and support to waste and recycling management companies globally.

From a base in Gaeltacht at Rathcairn, Co. Meath, an in-house team of engineers and designers offer a complete turnkey process, from conceptual drawings to a fully operational plant, for bespoke plants through to solutions for new or existing plants, and general engineering projects.

One of Turmec's key projects is the Turmec/Rino project, the world's largest state-of-the-art construction waste processing facility in Brisbane.

Geoff Bailey Chief Executive Officer says this project is a testament to Turmec's commitment to sustainable waste management and its ability to deliver large-scale, complex projects.

The €30m project began in March 2022 with a timeline for completion by November 2023. The facility processes Construction & Demolition (C&D) and Commercial & Industrial (C&I) waste, with a processing capacity of 475,000 tonnes per hour. It's a world-first, able to sort through wet and dry waste under one roof.

The Turmec Team behind a World-first recycling facility in Brisbane

Upon completion of the plant, Dan Blaser, Rino Recycling General Manager, said they had scoured the globe and "brought together the best engineers in the world to successfully collaborate with us to deliver a leading plant that underpins a strong sustainable recycling industry for Australia".

Geoff Bailey, Turmec Chief Executive Officer, says the project is the company's largest, by scale, in its long history in the supply and installation of mechanical treatment plants worldwide.

"Our expertise and knowledge made us the ideal candidate for this project, which is the biggest mixed construction and demolition plant in the world by volume," Geoff says.

"The solution Turmec created and installed, in collaboration with wet plant specialists CDE, means that varied waste types can be integrated into an automated production line which effectively separates out the materials allowing for the production of a number of high-quality products such as aggregates and road base. The residual waste can be used as fuel for industrial boilers."

For more information visit: www.turmec.com

Biffa reduces conveyor maintenance and cleaning time at MRF with STARCLEAN® belt cleaners

National waste management experts, Biffa, have MRF's throughout the UK. Their plant in Leicester uses 20+ belt conveyors as part of their black bin waste recycling operation.



STARCLEAN® installation at Biffa
STARCLEAN® pre-cleaner

Handling household waste is difficult due to the variety of materials, which includes plastics, metals, wood, paper, and large amounts of sticky organic materials. This material builds-up on conveyor structures and also drops onto the floor, causing significant maintenance and housekeeping issues.

On one conveyor, the shredded and organic waste would build up on-and-around the head drum in significant quantities. The rudimentary belt cleaner installed couldn't effectively clean the belt and became overwhelmed with the waste. The engineering team would then have to spend ~15 minutes per day cleaning this area, and regularly removed 4 wheelbarrows of waste.

In search of an improvement, the Engineering Supervisor contacted ProSpare.

A ProSpare service engineer visited site to assess the facility and scope the conveyor.

The installation of a STARCLEAN® belt cleaner was recommended, and a trial agreed. The STARCLEAN® pre-cleaner was installed on the head drum of the conveyor and specified with polyurethane blades, ensuring the scraper was able to efficiently combat the wide variety of materials handled.

Following the install of STARCLEAN®, the amount of waste building up on-and-around the head drum has significantly reduced.

Previously, the engineering team spent 15 minutes per day cleaning the head drum, this has now been reduced to 5-10 minutes twice per week, saving up to an hour per week.

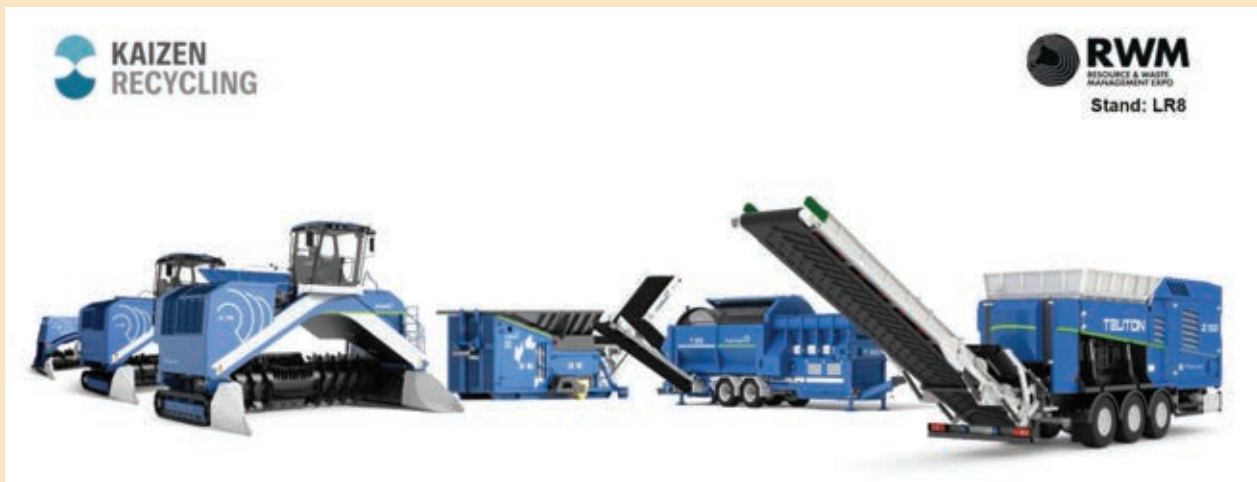
Waste cleaned from the area has also reduced from 4 wheelbarrows per day to just 2 per week, saving approximately 16 wheelbarrows per week.

The time saved can now be reinvested to maintain other locations around the plant. As the area is cleaner, exposure to risk has also reduced.

Following the success of the trial installation, the team on site are now installing a number of STARCLEAN® belt cleaners across the network of conveyors.

For more information visit www.prospare.co.uk

Kaizen Recycling Limited was founded in 2006 to provide market leading solutions to the Waste and Recycling sectors



We have a huge amount of experience covering both mobile and static recycling technology as well as a proven track record of delivering state of the art turnkey sorting plants.

Kaizen provides a professional aftersales service with a comprehensive stock of spares and factory trained service technicians, all to ensure your continued productivity.

We work with world renowned technology manufacturers such as:

Eggersmann Teuton

The Teuton range of universal shredders represent the very pinnacle of shredder innovation Worldwide.

The single shaft machines have a hydraulically adjustable cutting table allows for a range of different output sizes in one pass.

From difficult materials such as tyres, mattresses, and cables right the way through to wood and green-waste, there is very little that the Teuton range cannot process.

Available in tracked, wheeled, diesel and electric models.

Eggersmann Backhus

Best in class compost turning technology currently available. With machines ranging from 3m wide right up to 8m wide and turning capacities up to 7,000m³/hr there is a Backhus machine to suit your operation.

With over 1500 machines sold in over 70 countries you can be assured that the Backhus range of compost turners will deliver exceptional performance for your operation.

Eggersmann Forus

Specialise in the manufacture of twin shaft pre-shredders for all types of wood and waste – effortlessly shredding domestic waste, commercial and industrial waste, construction and demolition waste, waste wood, green waste, and rootstocks.

Available in hooklift, tracked, diesel and electric versions.

Eggersmann Star Select & Terra Select

Market leaders in mobile trommel and star screening technology by delivering innovative product features and higher screening capacities than the majority of their competitors.

A choice of diesel, hybrid and electric drives are available to suit your particular application and to dramatically reduce your diesel consumption.

Ecostar

Ecostar mobile and stationary screens are used around the world. Thanks to their precision, the Ecostar screening machines can work either by standing alone or integrated within a larger process to optimize extraction quality and reduce maintenance costs.

Hardox wear parts and low power consumption results in a very low cost of ownership when compared to competitors screens.

Europress Umwelttechnik

Europress Umwelttechnik are an innovative manufacturer of high-quality baling, conveying, and sorting technology.

Each product is tailor made to the individual needs of a specific customer and includes:

Europress balers have been designed with ease of maintenance and low cost of ownership in mind and is truly the Rolls Royce in the baling sector.

And whilst many baler manufacturers have sought to reduce manufacturing costs by reducing weight, Europress balers are some of the heaviest in the sector and designed so that they are rarely replaced.

Eggersmann Anlagenbau

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Martin Barnes Haulage Limited invests in a Arjes Shredder supplied by Doyle Machinery Ltd

Martin Barnes Haulage Ltd, situated in Wexford, Ireland, contacted Doyle Machinery Limited for sales advice and to show interest in expanding their business through the acquisition of a shredder.

In the last year, Martin Barnes Haulage Limited has witnessed rapid growth and needed a shredder capable of processing tree stems, wood roots, and converting them into small woodchips for various uses. Improving their business operations is vital for continuous growth.

With their recent purchase of the Arjes Impaktor 250 evo Shredder, they are closer to achieving this goal. The Impaktors success lies in its versatility and cost-effectiveness, making it a standout option in the industry. It boasts a unique track system and hook lift combination, an innovative shaft quick-change system offering Paddle or Concrete shaft options, an advanced SCU control system, and a versatile shaft design that expands its applications, positioning the Impaktor 250 as a top competitor.

For Martin and Stephen, a shredder that can separate and eliminate steel not only saves time, maintenance, and effort but also supports recycling initiatives.

Stephen Barnes described the experience with Doyle Machinery Limited as 'excellent, with no issues at all'.



With their forward-thinking strategy and commitment to excellence, Martin Barnes Haulage is poised to reach new heights in the industry, establishing standards for operational efficiency and customer contentment.

Congratulations to Martin Barnes Haulage on their accomplishments and prosperity. We extend our best wishes to the Family and Team for their future ventures.

Ready to enhance your operations? Reach out to our team today!



Wheeldon go green on waste

Situated adjacent to the M60 in Lancashire and centrally between Manchester and Bury, Wheeldon Brothers handle over 60,000 tonnes of waste on an annual basis. The family-owned company has been trading for over half a century and in that time have built up an enviable reputation for delivering a cost-effective and reliable service. The company has been built around a core of industrial, commercial, and domestic clients with the family quick to respond to the ever-changing trends in waste management.

Long gone are the days when waste is just sent to landfill with the company now actively sorting, segregating, and recycling over 90% of the material they handle away from landfill on an annual basis.

The company handles a wide and diverse variety of materials and is constantly looking for ways in which to recycle material to avoid sending it to landfill. With much of the everyday recyclables picked out at one for the company's sites, the resulting material, an MRF product, is sent to their Bury site where it is further processed into an SRF (Solid Recovered Fuel). SRF is a high-quality alternative to fossil fuel and is produced from mainly commercial waste including paper, card, wood, textiles, and plastics which cannot be further recycled. Solid recovered fuel has gone through additional processing to improve the quality and value of the material. SRF is considered to be a more refined fuel with a low moisture content and an energy content around two-thirds that of coal. Not only can SRF be used in Energy from Waste plants as an alternative to fossil fuels, but it can also be used in cement kilns and other industrial processes.

With over 30 trucks collecting waste material from across the region, Wheeldon Brothers have an ever-growing volume of material to potentially process into SRF and to manage the incoming material they have turned to Molson Green to supply a new Sennebogen 817E, an 18.5 tonne compact radius material handler for the plant.

"We have used a variety of machines over the years, mainly on tracks." Martin Bickerstaff, Yard Manager commented.

"When we came to look at replacement material handler, we decided to change tact and go for a more mobile, wheeled machine. We did have an issue though as the building size limits what we can squeeze into it. After looking at various products we decided that a Sennebogen 718E was the ideal solution in terms of size and capabilities as it has to be able to load the plant, sort material out and load wagons with outgoing material."





The 817E is the smallest material handler in the German manufacturer's range. Built at their Straubing plant near Munich, the 18.5 tonne material handler comes with a 8.5m pin height and reach allowing it to easily fill the bulk tippers leaving the site. The impressive ground level reach of 8m means it can service the Linderer shredder from a single point whilst remaining far enough away from the sloping roofline. The machine's industrial K8ULM configuration allows it to carry a 300-litre rotating selector grab.



Sitting on a long, wide undercarriage with two pairs of stabilisers provides the 817E with a very stable platform to work from. Even at full reach and cross carriage, the machine doesn't flinch and remains glued to the floor at all times.

The Sennebogen's compact upper structure ensures the tight spaces in the processing area isn't impacted by a large tail swing. Hidden beneath the compact frame is the clean, burning heart of the machine. Powered by a fuel-efficient, 100kW Cummins F3.8 engine, the 817E meets current StageV emissions regulations thanks to the manufacturer's Single Module™ after treatment system, which combines DPF, SCR and urea dosing in one unit and ultimately takes up 50 percent less space and weighs 30 percent less than other systems. The entire engine and cooling pack is situated under a single, gullwing-style door on the offside of the machine, which opens wide to allow easy servicing access. The opposite side of the upper structure contains the Sennebogen's unique electrical panel, which allows the easiest access to the entire electrical heart of the machine. With the restricted headroom in the building, the Sennebogen's Maxcab is unable to rise to its full height in some positions but is able just to make that bit of difference to the operator and allow them a clean line of sight into the shredder when required.

Working in the dark and often dusty environment, Sennebogen's standard LED lighting package cuts through the gloom with ease.

"We run the Sennebogen alongside a couple of wheeled loaders and having it mounted on the wheeled undercarriage has increased out productivity immensely," Martin commented. "As the loaders are handling material coming into the plant, we can now quickly move the Sennebogen out of the way to load the bulkers."



As this is the first Sennebogen to arrive on the fleet, the Wheeldon team have been very pleased with the machine so far. "Molson did exactly what they said they would do," Martin explains. "They showed us the demonstrator machine and what it was capable of and on that performance, we bought the machine. It's really made a huge difference to our productivity and our ability on site."

Sunskips partners with McLanahan for a Modular Washing & Water Treatment System

McLanahan has won the contract to supply a wash plant to SunSkips, a skip hire and waste management service based in the United Kingdom. The system, which consists of a McLanahan UltraSCRUB Modular Scrubbing Plant and McLanahan UltraSAND Plant, will be used to help SunSkips limit construction waste from going to landfill. The system also includes an HRT10 Thickener that will allow SunSkips to recycle a majority of its process water for reuse while limiting the volume of waste sent to the settling pond. The system will process construction, demolition, and excavation waste as well as trommel fines.

The UltraSCRUB and UltraSAND will allow SunSkips to produce three aggregate products of varying sizes and one sand product from C&D debris streams. The raw material will be fed onto a single deck pre-screen module as part of the UltraSCRUB unit to separate out fine sand particles ahead of the scrubbing process. The sand will flow into the sump of the UltraSAND Plant and be pumped to a Hydrocyclone, where it will be washed to remove silt. The underflow of deslimed and partially dewatered solids will then discharge onto a Dewatering Screen to create a drip-free product that can be conveyed to a stockpile.

Meanwhile, the coarse aggregates that pass through the pre-screen module will be fed into the UltraSCRUB's Coarse Material Screw Washer module. The Coarse Material Screw Washer will remove wood, plastics, organics, and other trash from the aggregate. The aggregate will then pass over a double-deck sizing screen, sorting the product into 10 mm, 20 mm and +20 mm aggregate that will be discharged onto respective conveyors and stockpiled.

The effluent from the scrubbing and washing processes will be sent to a Thickener to concentrate the solids in the waste stream, recovering immediately reusable process water and limiting the volume of material sent to the settling pond.

The effluent from the scrubbing and washing processes will be sent to a Thickener to concentrate the solids in the waste stream, recovering immediately reusable process water and limiting the volume of material sent to the settling pond.

"We are excited to provide another solution in the U.K. marketplace that deals with trommel fines. SunSkips is a rapidly growing and dynamic company and McLanahan is delighted to be part of their journey," said Donal McNicholl, Director of Sales – U.K. and Ireland for McLanahan.

"After evaluating numerous suppliers, we chose McLanahan due to their extensive industry knowledge, history and build quality," said Mat Stewart, Managing Director Sun Environmental Services. "Their UltraSCRUB is a key component of our wash plant at Thetford, and we are confident in their ability to deliver and install the best equipment. McLanahan's global reputation and comprehensive support made them the ideal choice for this new venture."

McLanahan Corporation is a sixth-generation, family-owned manufacturer of wet and dry processing equipment for the aggregate, mining, and agricultural sectors. Since 1835, McLanahan has been providing industry-leading solutions that help build our world and power our lives. For more information, contact sales@mclanahan.com



Making life easier with concrete block storage bays



Often used within quarries, agriculture and recycling and waste facilities and ideal for bulk material storage, precast concrete block storage bays keep materials, such as aggregates, salt, compost, gravel, metal, plastics, sand, wood chip, tyres, white goods, bales, RDF waste and black

bag waste safe and reduce dust emissions onsite.

Selecting a structure that provides a secure solution, can be difficult, as there is a need for storage bays to be built using hardwearing and durable materials.

This is where Owen Batham and the team at Elite Precast Concrete can help you, as their interlocking blocks are a proven storage bay solution in harsh and aggressive environments.



Here, Owen discusses why he believes you can't go wrong using Elite's concrete blocks to build your storage bay units.

Flexibility - Complying with relevant standards, Elite's concrete Legato®, Duo™ and Vee® blocks allow installers the ability to easily adjust and expand their storage bays as their needs change, futureproofing any bay project.

Proven fire-resistance - Manufactured to A1 fire-resistant classification, installing storage bays built from Elite's interlocking blocks limits fire and can be used as part of the stakeholder's fire protection plan (FPP).



Strength - Concrete is known for its durability and Elite's concrete blocks are cast from high strength (50N/mm²) concrete.

Build to last - Made under factory quality controlled conditions, the concrete blocks have a design life of over 100 years, reducing the need for costly replacements.

Sustainability - Manufactured using materials that are responsibly sourced, in factories that are energy efficient, concrete block storage bays can cut CO₂ by reducing the transportation and processing of materials, as well as cutting the risk of rot to a minimum.

Cost-Effectiveness - The concrete interlocking blocks can be used throughout your facility, with applications including flood defence, salt barns, waste and recycling units, aggregate bays, retaining walls and of course, storage bays.

Size - Whatever your requirements, Elite Precast has a block solution for you, with the smallest bay block weighting 750kgs and the largest 2400kgs, with options in between, Elite can help maximise your storage bay requirements.

Installation - The Legato®, Duo™ and Vee® interlocking blocks have a cast-in lifting pin for offloading with a machine using a chain and hook and Elite Precast can offer deliveries on a choice of vehicles to suit your facility's needs.

Availability - Made in Britain and available from stock, the Legato®, Duo™ and Vee® blocks can be delivered within 48 hours or collected from Elite's Shropshire works.

Delivery - Elite has a range of delivery options available, including flatbed rigid and articulated HGVs with edge protection, crane-off-load vehicles, truck-mounted forklifts, telehandlers along with specialised packing services and even worldwide container shipping.

Our logistics partners are also part of the Fleet Operator Recognition Scheme (FORS) and can ensure that deliveries are made within the requirements of Bronze, Silver, or Gold standard.

The Team - With a combined history of over 200 years in the precast industry, the Elite Precast team are built on experience and have an enviable reputation for customer service and product knowledge.

What now - If you would like to know more about interlocking blocks from Elite Precast Concrete, please visit www.eliteprecast.co.uk or call Owen or the team on 01952 588885 and find out which concrete blocks will suit your project.

ELITE

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Quality precast concrete manufacturers... for a great range and even greater value

Elite Precast Concrete are one of the UK's leading precast concrete manufacturers combining the highest levels of customer service with always being the best value option.

Our focus is on driving down the cost base and then passing these savings onto our customers. This enables us to provide constant and predictable price structures which in turn underpin our ethos of developing customer relationships over the long term.

Every product we make is cast from the same premium quality, high strength (50N/mm²) concrete.

We were also the first and by far the largest manufacturer of interlocking blocks for various temporary works; fire breaks; retaining, blast and push walls and also, by offering three block types, you can be certain that we have the solution you are looking for.

For more information on Elite quality concrete products phone 01952 588 885 or browse www.eliteprecast.co.uk



Concrete industry experts identify link between Batch Plant Performance and Employee Wellbeing in new white paper

THE UK's leading concrete batching plant equipment and spare parts supplier, ConSpare, has published its second industry white paper, addressing how operators in the concrete production industry can boost employee wellbeing through improvements made to the batch plant.

The white paper, titled "The right mix: Addressing the "S" of ESG for concrete batch plants – putting people at the centre of investment decision-making", uses qualitative data from plant supervisors and managers to demonstrate the importance of eliminating hazards and reducing the amount of repetitive, unpleasant and unproductive tasks around the plant, and the benefits that this can bring to the industry as a whole.

With commentary from sustainability expert Dr Miles Watkins and ConSpare's CEO James Bullock, the report illustrates the impact that a people-first approach can have on both the physical and mental health of workers, in terms of improving work-life balance, job satisfaction and overall happiness.

James Bullock said: "The concrete industry has made significant progress over the past decade in ensuring its approach to environmental, social and governance is robust, but as well as tackling sustainability challenges such as carbon reduction, it's important that we address the people at the heart of the concrete plants themselves.

"Developing an understanding of the positive impact that batch plant performance can have on colleagues' motivation, productivity and loyalty is important for any concrete business, particularly as site teams come into contact with hazards and undertake non-value adding tasks on a daily basis. So, it's crucial we do everything we can to combat this issue.

"Our white paper outlines the steps that can be taken by the industry to improve the daily lives of site staff, and while these may seem like simple measures, they can have a huge impact. We've heard from plant supervisors and managers how much of an impact the long hours, challenging conditions and repetitive tasks often involved in concrete production can have on their wellbeing, and it's up to us to do something about it as one collective industry."

Dr Miles Watkins said: "In business, and indeed elsewhere, people are as fundamental to the sustainability journey as the environment and economics.

"Through demonstrated best practice, the concrete industry is well within its capabilities to put its teams at the centre of decision-making, ensuring their professional lives are enriching in every sense.

"ConSpare is making real progress in helping both its customers and the industry more broadly, and we hope that this report will build on James' work to help to raise awareness and encourage investment decisions that will improve the safety, wellbeing and happiness of workers across the industry."

ConSpare's latest white paper comes after the launch of its first sustainability report last year, titled "Why Sustainability is a Concrete Matter: Reducing Carbon and Cost from Concrete Batching Plant Operations".

For more information and to download "The right mix: Addressing the "S" of ESG for concrete batch plants – putting people at the centre of investment decision-making", visit <https://conspare.com/sustainability/staff-wellbeing>



James Bullock, CEO of ConSpare, launching the white paper at Hillhead 2024

Orchard Fencing Ltd upgrades precast production with Bespoke Rapid International Concrete Batching Plant

Rapid International Ltd (County Armagh, Northern Ireland) has recently supplied Orchard Fencing Ltd with a new bespoke static concrete batching plant, located in Erith, South-East London. The plant is capable of production of up to 22m³ per hour of concrete. Orchard Fencing aims to produce 1500 precast fencing products per day, in addition to interlocking blocks.

The upgrade project, at a cost of £2 million, also involved concreting the entire facility, new warehousing, reconditioning of the existing precast machines, two new forklifts and new Coote Engineering machines and moulds.

About Orchard Fencing

Established in Welling, UK, in 1989 by Neil Hubble, Orchard Fencing Ltd, under his leadership expanded its operations with depots in Catford, Welling, and Erith. Serving London, Kent, and the wider south-east area, the company specialises in retailing and wholesaling fencing products and aggregates. Notably, in 2012, Orchard Fencing supplied security perimeter fencing for the London Olympics.



Outdated plant required upgrade

Motivated to focus more on precast fencing products and confronted with an outdated plant over 30 years old, the company recognised the necessity to invest in new production facilities. Reflecting on this, George Hubble – Managing Director, remarked, “My grandfather Terry invested in a plant and a precast machine many years ago which served him well. However, as Orchard Fencing expanded, the old machinery simply could not keep up with demand. We knew that if we

wanted to expand and improve our in-house precast production, that a major upgrade would be required.”

Concrete Technology

It was after a conversation with Coote Engineering, during the purchase of a Coote dry cast machine, that the company learned of Rapid International and their extensive experience in the design and manufacture of custom batching plants.

The company subsequently contacted Victor Pickering of Concrete Technology Ltd, Rapid’s GB mainland sales partner. Hubble added, “Victor was very helpful and knowledgeable. He conducted a thorough site visit, enquired about our requirements, and advised us on what specification of plant would best meet these. He then passed this information to Rapid’s in-house design team, who produced initial layouts, followed by 3D renders.”

He continued, “Victor also arranged a site visit to a previous customer of Rapid, Brett Landscaping, whose plant was installed 30 years ago and is still fully operational. Brett spoke highly of the plant. He also gave us a further 5 customer references, who we contacted, and who all spoke highly of Rapid.”

“Victor really put us at ease and together with Brett Landscaping, Coote Engineering and the five other customer recommendations, I felt confident that we were making the right decision and the plant was going to be good.”

The Rapid solution

Orchard Fencing’s new bespoke Rapid concrete batching plant offers outputs of up to 22m³ per hour. The new plant has three 12.5 tonne aggregate hoppers, with integral 600mm weighed belt conveyor, which discharges into a mixer loading skip. This skip subsequently feeds a 0.75m³ output Rapid RP750 planetary mixer, which is housed on a mixer platform with the production facility. The platform allows for maximum access for maintenance and cleaning at mixer level. On mixer maintenance, Hubble commented, “I find the Rapid mixer much easier to clean and maintain, with the fewer blades and no centre, compared to our previous German Pan Mixer.”

Two discharge chutes are located under the mixer doors to direct the material into the receiving hoppers on the Coote Engineering dry cast machines.

Cement is stored in an 80 tonne storage silo, with screw conveyor, which conveys material from the silo to the weigh hopper. A 500kg cement/powder weigh hopper is included, which is mounted on loadcells with aeration pads and a vibrator to aid in discharging. The plant also features a single compartment additive weigh system, which offers flexibility in additive batching.

To streamline mixer cleanout, the plant includes a Rapid Jetwash mixer washout system, fitted with 3 spray heads. The system operates at 2000 psi, offering high-pressure cleaning and maintenance of the mixer.

Enhanced control and productivity

The plant is fitted with a Pneutrol Dynamix batching control system, which enables the operator to oversee the entire batching process and offers unlimited recipe storage, manual control via the PC and remote operation. The plant controls are housed in an anti-vandalism control cabin, ensuring security.

Plant automation - user friendly

On the installation process, Hubble remarked, "We had a few minor issues at the start, but everything was taken care of by Keith (head of Rapid installation) and the installation team. Keith was brilliant and guided us through the whole process with organisation, attention to detail and precision. Everything has been no hassle and any minor issues we've encountered have been sorted via a quick phone call. Installation was very professional and streets ahead of anything we've encountered."



On the plant, "We're really pleased with it! We can now be totally self-reliant and have improved quality and service for our current customers and stockists. The new semi-dry machine requires a very accurate mix which would be very difficult to achieve without the Rapid static batching plant, the moisture probe inside the

mixer calculates exactly how much water to add which gives us a fast, consistent and accurate batch every time."

"The steel work is heavy duty, unlike some of the alternatives in the market which can be really lightweight. It's nice to see it's been built properly and it's clearly going to last. The automation is very clever and user friendly – PIL were excellent. Aftercare has been very good."



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New app to improve the sustainability of concrete wins Tarmac Innovation Challenge

An innovative digital analysis tool that can help to improve the sustainability of concrete has been named the winner of Tarmac's 2023 Innovation Challenge - an annual competition encouraging supply chain companies, SMEs and other organisations to submit ideas for sustainable solutions.

The most recent challenge focused on new technologies and solutions to support a circular economy – keeping materials in use and reducing waste – with Tarmac committed to bringing the winning entry to life.

Submitted by Saint-Gobain Construction Chemicals, the winning initiative CHRYSO Quad Lab is an innovative new tool that suggests the most suitable admixture solution for concrete mixes based on the sands it contains. Admixtures are substances added to optimise a concrete mix, for example to reduce the amount of water and cement needed, improve workability or to speed up the setting time.

The Quad Lab tool, creates a detailed report about the sand's characteristics, including fines and swelling clay content, to identify and recommend the most suitable admixture solution.

This detailed analysis enables more sustainable sands to be used in concrete mix designs as the designated admixtures maintain or improve strength without requiring an increased amount of cement or water. Reducing the amount of cement used therefore lowers the embodied carbon of a concrete mix, boosting sustainability and providing users with cost savings.

Mark Lewis, procurement manager – CapEx and sustainability at Tarmac, said: "Circularity within the materials industry is

crucial to reaching net zero and reducing our impact on the environment. To achieve our sustainability ambitions, we know that collaborating with our suppliers is key to developing innovative new ideas and solutions.

"CHRYSO Quad Lab brings a fantastic opportunity to use more sustainable sands in concrete mixes, and reduce the volume of cement required for strong, resilient concrete.

"Congratulations to the CHRYSO team for bringing this versatile and impactful tool to market. We are excited to take this initiative forward."

The Quad Lab technology forms part of the CHRYSO range, which includes the patented Clear test method to analyse sands and the Quad app and software through which technicians carry out precise diagnosis and technical support.

Gerry Attree, National Key Account Manager at Saint-Gobain added: "CHRYSO Quad Lab, along with our advanced range of Quad admixtures, expands the types of sands useable in concrete production. This includes challenging locally sourced sands and recycled construction materials, which might otherwise have been considered unsuitable.

"By doing so, along with our business partner Tarmac, we are working towards providing sustainable construction material solutions, and reducing the carbon emissions from long-distance sand transportation, but also supporting the circular economy through the reuse of construction waste."

Now in its fourth year, previous winners of Tarmac's Innovation Challenge include the UK's first all-electric concrete mixer, which is in operation in Birmingham.



Develon Wheel Loaders boost fuel saving and safety at ASH Group

Wheel loaders have CVT Transmission & Transparent Bucket installed...

Two new Develon DL420CVT-7 wheel loaders purchased by ASH Group for use at the company's state-of-the-art Aggregates Wash Plant in Ellesmere Port in Cheshire in the UK, have brought huge benefits including significant fuel savings and increased safety. The new wheel loaders were supplied by Blue Machinery (Central) Ltd (Blue Central), based in Northwich in Cheshire, the Authorised Develon Dealer for North-West England and North Wales.

Compared to the machines they have replaced, the new wheel loaders are using 4 l/h less fuel (11 l/h instead of 15 l/h) mainly due to the Continuously Variable Transmission (CVT) on the DL420CVT-7. They are also the first in the UK to be equipped with Develon's Transparent Bucket safety system, the first of its type in the world. The Transparent Bucket is a system that allows the wheel loader driver to see blind spots in front of the bucket on the machine, using the monitor in the cab.

John Dennen, Director of ASH Group, said: "We are very impressed with the fuel economy and high performance of the new Develon wheel loaders and our drivers really like to work with them. With the new Transparent Bucket system on the machines, we have also enhanced safety for both the drivers

and the rest of the workforce at the wash plant. The new wheel loaders align with our commitment to sustainability and safety and with their help, our wash plant will continue to provide much needed high value recycled sand and aggregates for the UK construction industry. The operation is designed to produce up to 600,000 tonne per annum, ensuring maximum resource recovery and to divert even more waste from landfill."



Up to 25% Additional Fuel Savings

The DL420CVT-7 is equipped with a Continuously Variable Transmission (CVT), the result of a permanent combination of a hydraulic technology and a mechanical technology which provides a smooth and continuous speed variation. It allows the DL420CVT-7 to automatically transition from hydrostatic power at low speed to the mechanical system to operate at higher speeds. The complete driving range, forwards and in reverse, is controlled by the CVT system. Low engine speeds ensure a high efficiency and the highest driving comfort irrespective of the traction speed. The power splitting continuously variable technology facilitates moving off softly and hydraulically. Furthermore, with the CVT, a fuel saving of up to 25% can be achieved.

New Spacious Ergonomic Cab Design

Like all Develon's award-winning DL-7 wheel loaders, the DL420CVT-7 wheel loader provides significantly enhanced operating comfort, an enhanced steering system and advanced electronic controls. Using the Develon Smart Key system on the control panel in the cab, the operator can start the machine using a keyless device, helping to prevent machine theft. The Smart Key system provides remote door control, door lock and unlock, door release, searching and other functions.

The cab has a Grammer Actimo XXL seat with fully adjustable horizontal and vertical suspension settings, a pneumatic lumbar function and seat heating as standard. There is a 3-

point safety belt with alarm icons on the new Doosan Smart Touch 8 inch touchscreen monitor and on the gauge panel, which features a new layout and anti-reflective glass.



Excellent Visibility for the Operator

Even without the Transparent Bucket system, the cab on Develon DL-7 wheel loaders like the DL420CVT-7 offers a superior field of vision for the operator, with blind spots around the cab minimized and a 14% larger glass window area compared to the previous DL-5 models.

John Dennen added: "Owing to blind spots caused by the buckets on wheel loaders, the area in front of the machines has been considered an area of major concern in terms of safety. With the Develon Transparent Bucket function, however, our drivers can easily check the blind spots in front of the bucket via the cab monitor, to increase safety and prevent accidents."

The innovative Transparent Bucket system records images in front of the wheel loader with top and bottom front-loaded cameras and shows combined images on the cab monitor in real time using a curved projection method. Another advantage of the Transparent Bucket system is that it can significantly improve work efficiency by providing a forward-view perspective for the driver during loading/unloading or when carrying materials such as aggregates, sand and soil.

ASH Group

The ASH Group has operated for over 35 years in waste management, incorporating recycling and energy production whilst continuing to divert waste from landfill. The core ethos of the business is founded on the three 'Rs' principle - RECOVER, RECYCLE, REUSE. This has enabled the company to produce an environmentally friendly high-quality aggregate. ASH Aggregates offers a sustainable alternative to virgin quarried materials, that helps to improve the carbon footprint of customers' contracts whilst helping to shape and define their social corporate responsibility targets.

Blue Central

As the local Develon dealer, Blue Central covers Greater Manchester, Lancashire, Merseyside (including the Wirral), Cheshire, North Gwynedd, Conwy, Denbighshire, Flintshire, Wrexham and the Islands of Anglesey and the Isle of Man. The company is solely responsible in these areas for sales and servicing of the Develon crawler, wheeled and mini/midi excavator, wheel loader, articulated dump truck and attachment ranges.

For more on Develon, please visit the website: <https://eu.develon-ce.com/en/>



Power trio at HEIS: Liebherr earthmoving machines at work

- **Liebherr XPower wheel loaders, material handling excavators and articulated trucks handle slag from blast furnaces**
- **Liebherr earthmoving machines impress with their high handling performance and clever machine design**
- **Fuel economy, reliability and serviceability**

Several Liebherr earthmoving machines are in use at HEIS.



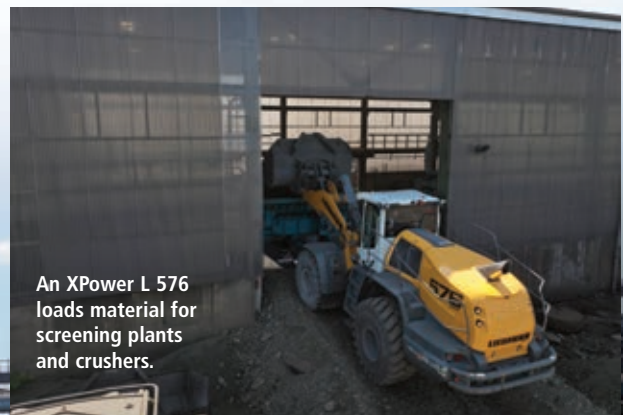
HEIS – Hargreaves-EWT Industrieservices GmbH – uses powerful earthmoving machinery from Liebherr for handling slag, soil stones and minerals. Alongside mining trucks and material handling excavators, XPower wheel loaders load material for crushers, screening plants and trucks. HEIS appreciates the fuel efficiency, reliability and clever maintenance concept of the robust machines.

As a direct neighbour of DK Recycling und Roheisen GmbH, HEIS processes the blast furnace slag that arises as a by-product of pig iron production. On a site covering 15,000 m², Liebherr dump trucks, material handling excavators and wheel loaders perform handling and loading operations. Two TA 230 articulated dump trucks take cooled slag from DK and drop it

in heaps. An LH 40 M material handling excavator then sieves out ferrous material using a magnetic separation system. An L 576 XPower wheel loader then loads the roughly sorted slag into a screening plant, where it is crushed and refined to different sizes. Finally, trucks are loaded with the various grades of product before they sold as building materials and for the production of blasting abrasives. "Liebherr earthmoving machines boast excellent handling performance and low fuel consumption", says Lars Haltermann, head of operations at HEIS.

Fuel efficient Liebherr wheel loaders ensure high customer satisfaction

What makes the XPower wheel loaders so fuel-efficient is their power-split XPower travel drive. At low speeds and short loading cycles, the hydrostatic drive does most of the work, while at higher speeds and uphill, the mechanical drive takes over. Together, the components always transmit 100 percent of the diesel engine power, with only the ratio between them changing. This means the wheel loader operates with maximum performance and efficiency, regardless of the task. The result is fuel savings of up to 30 percent compared to conventionally driven wheel loaders. "Our XPower wheel loaders currently consume an average of 14 litres of fuel per operating hour when loading, and when feeding the screening and crushing plants", says Haltermann.



An XPower L 576 loads material for screening plants and crushers.

Reliability and low maintenance

The XPower wheel loaders deliver maximum performance even on the toughest and most demanding jobs. The robust and durable components ensure a long service life for the machine. "In addition to the high quality and performance of Liebherr machines, we also appreciate the quick and easy maintenance of the XPower wheel loaders. This completes the overall package perfectly", says Haltermann. The rear-opening electric bonnet allows safe and unhindered access to the whole engine compartment, resulting in less downtime and reduced costs.

A TA 230 dump truck transports cooled slag from DK and piles it up.



CNH inaugurates electric compact wheel loader production line in Lecce

Entirely designed and built in the Puglia plant, the electric compact wheel loader will be marketed under the CASE and New Holland brands and distributed worldwide. With this third electric-powered model in the range, CNH reaffirms the crucial role of innovation in the development of high-performance, environmentally friendly solutions that serve people and the environment.

The event also highlights the investments in advanced and sustainable infrastructure at the Lecce plant, as well as the plant's central role globally.

The production line for the new electric compact wheel loader has been inaugurated at the CNH plant in Lecce, Italy. The model, conceived and designed in the Puglia plant's R&D centre, will be produced in CASE and New Holland liveries with the 12EV and W40X models, respectively. From here, it will reach markets around the world, meeting the growing need for zero-emission machinery in the construction and agricultural sectors.

The ceremony was held in the presence of institutions from the Puglia Region, including Alessandro Delli Noci, Councillor for Economic Development, and Loredana Capone, President of the Regional Council, together with the Mayor of Lecce, Adriana Poli Bortone, and CNH management: Stefano Pampalone, CNH President Construction Segment, Carlo Alberto Sisto, CNH EMEA President, Federico Bullo, CNH Head of Construction Europe, Ciro Casapulla, CNH Head of Construction Product Development, Carlo Lambro, Managing Director CNH Industrial Italia S.p.A. and Guido Moscheni, CNH CE HR Business Partner.



The new model completes the company's range of compact electric vehicles, which already includes the two mini electric excavators produced in Cesena. CNH is thus responding to the rapidly growing demand for alternative powertrains, driven by the needs of metropolitan and municipal areas, in Europe, and the requirements of sectors such as agriculture and livestock farming, in search of high-performance yet silent and zero-emission machines that can operate safely indoors and near animals.

Lecce plant increasingly central to CNH

The Lecce plant, which recently celebrated 50 years of activity, is one of CNH's main production centres in Italy and EMEA. It occupies 600,000 square metres and houses 7 product lines (wheel loaders, compact wheel loaders, backhoe loaders, telehandlers, and motor graders) for 203 models and 4896 different configurations. Production volumes have grown exponentially, marking an 88% increase between 2020 and 2022 and a further 14% in 2023, the year that recorded the highest number of machines produced since its foundation.>





In parallel with investments in production capacity, CNH has implemented major infrastructure and environmental improvements. In 2022, an investment of around €13 million (part of the Converto project, co-financed by the Region of Puglia) enabled the installation of a new advanced painting plant and a new plasma cutting machine. The former has significantly improved product quality and reduced environmental impact through more efficient use of water. The new cutting machine has increased productivity, reducing waste and maintenance costs. Furthermore, the recent adoption of a photovoltaic system covering 40% of the production area confirms the commitment to sustainability and energy self-sufficiency of the production site. Also, as part of the Converto project, CNH has invested in the construction of new rooms for testing electrified vehicles and for checking operations in extreme climatic conditions (-50° to +50°).

Alessandro Delli Noci, Councillor for Economic Development of the Region Puglia, commented on the relationship that links the plant to the territory: "This industrial complex has long been a reference point for many companies in Salento, which benefit from the allied industries linked to production and is also an important pole in terms of employment. We are happy that CNH continues to believe and invest in this important reality with products and projects of high technological content."

The electric compact wheel loader - Italian innovation for a sustainable future

The new electric compact wheel loader, which has been successfully presented at major international trade fairs such as ConEXPO in Las Vegas and Agritechnica in Hanover, offers significant advantages in terms of low noise and zero emissions. These characteristics make it particularly suitable for operating in closed environments, where CO2 emissions are not permitted, on night-time construction sites and in all applications that are sensitive to noise pollution. Furthermore, this type of machine guarantees high performance and lower operating costs than diesel-powered vehicles.

Ciro Casapulla, Head of Construction Product Development, explained the new electric model in detail, emphasising how



innovation has always been made in Lecce, and how this, in the case of electrification, entails a paradigm shift: 'We have not just replaced the diesel engine with batteries. We have completely revised the design, also drawing on technologies and calculation techniques typical of the aerospace sector. Firstly, by lightening the weight, removing it where it was not needed, in a reasoned and calibrated way to increase performance and preserve the machine's autonomy'.

The weight reduction, also achieved thanks to the special "lattice" boom, has led to an improvement in tipping load: a light boom means weight is shifted to the rear and therefore greater loading capacity and stability. Another important innovation, borrowed from the top-of-the-range diesel models, are the electro-hydraulic controls which, combined with the electric drive, make it possible to maximise the efficiency and the controllability of movements.

The new electric model has a range of 3 to 6 hours depending on the type of application. Recharging can be done with the domestic power socket with the standard 230V on-board charger or with the optional fast charger, which can recharge the 23-kWh lithium-ion battery from 20% to 80% in just 1 hour, the duration of a lunch break, thus enabling continuous use throughout the working day.

The new electric compact wheel loader, 100% Made in Italy, highlights CNH's commitment to investing in technologies for the development of alternative and sustainable propulsion, while reaffirming the strategic centrality of the Lecce plant in the company's production landscape.

AG Wilson adds to its fleet with more SANY excavators

AG Wilson Civil Engineering, a family-owned civil engineering contractor, based in Co Armagh, Ireland has taken delivery of a further three 24-tonne SANY excavators this month.

The order has been supplied by SANY's Irish dealer, Sleator Plant and will join an existing fleet of SANY equipment that includes five 8-tonne SY80U excavators, a 16-tonne compact wheeled excavator and two 16-tonne SY155U machines.

AG Wilson, who have a long-standing and strong working relationship Sleator Plant, purchased their first SANY excavator in December 2021 and have been impressed with the machines and the support offered from the dealership ever since.

Aaron McCaul, General Manager for Sleator Plant commented "We're delighted that the team at AG Wilson have decided to continue to invest in the SANY product. The specification of the machines along with the 5-Year warranty makes the SANY option a positive one for their business and their trust in the team at Sleator Plant also helped in their decision to place a large multi-unit order".

Established in 1979, AG Wilsons is a family run business providing a comprehensive range of professional civil



engineering services to both the private and public sectors across the UK and Ireland. Their 40 years of experience has resulted in a solid foundation of technical expertise, dedicated staff and an approach of integrity to every project they undertake.

The new SY215C excavators are expected to go straight to work on a new pipeline project in Scotland with a further order in the pipeline that includes a 40-tonne SY390H excavator and two SY75C machines, taking the SANY fleet at AG Wilson to 16 machines.



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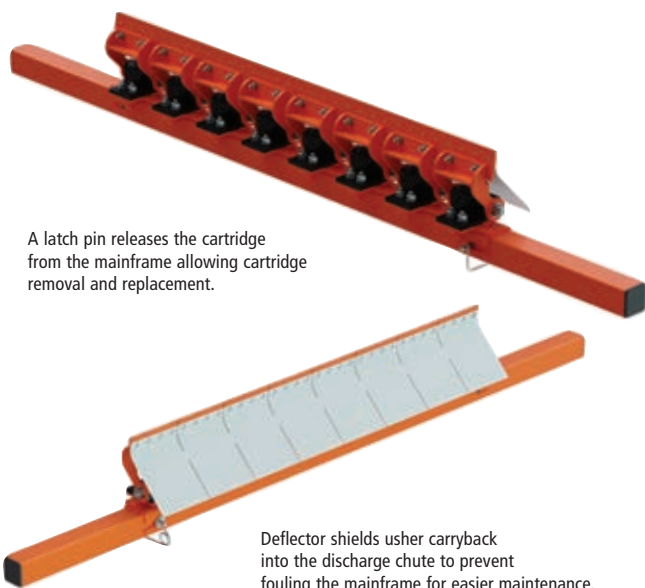
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New Secondary Conveyor Belt Cleaner designed for safety and easy maintenance

The global leader of belt conveyor accessories has announced the next generation of secondary conveyor belt cleaners engineered to reduce dusty carryback and lower maintenance time. Designed to withstand the stress of heavier loads carried on wider, thicker belts at higher speeds, the Martin® SQC2S Orion Secondary Cleaner features individually cushioned tungsten carbide blade cartridges for effective cleaning without risk to the belt or splices. A two-tiered tensioning system means minimal adjustments and monitoring throughout the life of the blade. The heavy-duty blades are mounted on a slide-in/slide-out assembly for faster and safer one-worker external servicing. The result is improved belt cleaning with less dust and maintenance for greater workplace safety at a lower cost of operation.

"We field tested the Orion over several months side-by-side with competitor designs in punishing mining environments



and found that the new design significantly outperformed the competition," said Dave Mueller, Conveyor Products Manager for Martin Engineering. "At the end of the testing period, customer participants started the process of replacing all their heavy-duty secondary cleaners with the Orion. We now view this design as the future of our secondary cleaner line moving forward."

Secondary cleaners play an essential role in the belt cleaning process by significantly reducing the volume of dust and fines dropped as carryback on the belt return. Primary cleaners release most of the abrasive material remaining on the belt after discharge. Located below the head pulley just behind the primary, secondary cleaners scrape off the fines and dust that hide in cracks and divots in the belt. Carryback is attributed to many environmental and operational issues such as air quality violations, fouling of rolling components and machinery, and increased labor for cleanup and maintenance.



The mounting assembly firmly secures the secondary cleaner to the stringer.



Cartridges with individual tensioning improves cleaning efficiency and effectiveness.



Slick heavy duty deflector shields improve performance from wet applications that experience buildup.

The Martin® SQC2S™ Orion Secondary Cleaner is appropriate for all bulk handling material applications. The unit is made up of individual 6 in. (152.5 mm) blades mounted on a square steel tube assembly. Not designed for reversing belts, it is suitable for 18 – 96 in. (457 - 2438.5 mm) belt widths, belt speeds up to 1200 fpm (6 mps), and temperatures up to 250° F (121° C).

"What sets this unit apart from others on the market is the innovative, dual tensioning system with independent heavy-duty tungsten blades which are game-changing design features," Mueller explained. "The first level of tensioning is supplied to the entire assembly using the heavy-duty SQC2S™ Tensioner which applies light upward torque evenly across the belt profile for less friction and no wear on splices."

The second level of tensioning is on the individual blade assembly. Each Orion blade assembly is attached to a steel square tube assembly which is secured a mounting plate. The square tube houses a rubber tensioner with a torsion arm bolted to each side. A specialized tungsten blade is attached to the arm. The whole system is mounted at a 90-degree angle then tensioned so each blade is vertical and perpendicular to the belt. As the belt runs, each blade assembly adjusts independently to precisely match the belt's profile, permitting them to compensate for camber, flaws/blemishes, and stubborn material stuck to the belt's face. To accommodate belt cupping and other uneven surfaces, the blade assemblies can be individually adjusted to match the belt profile.

The blades are specially designed for heavy-duty abrasive applications in both dry and wet environments. Tested on hard rock and slurry belts, the Orion blades offered superior cleaning results with a longer equipment life. This is due to the rugged tungsten carbide core surrounded by mild steel. Blades are also available in stainless-steel for specific corrosive materials.

The blade design features an attached deflector shield made from polypropylene or rugged nylon for high temperature applications. Mounted directly to the blade in an outward scoop design, the shield ushers loosened material away from the mainframe and toward the discharge chute. This mitigates buildup on the assembly, extending the blade's effectiveness and reducing the amount of maintenance.

Safety and ease of maintenance is a key feature and a core priority for all Martin Engineering designs. The slide-in/slide-out design allows a single worker to perform maintenance with easy access outside of the conveyor structure, eliminating the need to crawl underneath or awkwardly reach inside. This greatly improves workplace safety and reduces the amount of time and labor required for maintenance, significantly lowering the cost of operation.

"Every bulk handling operation is unique and requires equipment that is versatile and adaptable, and I think we've achieved that with the Orion," said Mueller. "Martin Engineering products are developed to improve efficiency and safety, without compromising belt health. This design gives customers more options and superior results, regardless of the material or the process."

Donghua expands Automatic Chain Cutting Service



Donghua Limited has expanded its automatic chain cutting facilities at its UK headquarters in the Midlands. This development enhances both efficiency and precision, transforming how cut-to-length chain products are customised for customers.

Recognised for its commitment to innovation and quality in chain manufacturing, Donghua's upgrade to its in-house chain cutting capabilities is another milestone in its customer-focused approach. The expanded service features two fully automated machines,

each capable of cutting various chain types and pitch with accuracy and speed.

Precision and Efficiency

The automatic chain cutting machines employ advanced technology to ensure each chain is cut to the exact length required. This precision is crucial for applications where even the slightest deviation can lead to operational issues or mechanical failures. By eliminating manual cutting processes, Donghua reduces errors, delivering products that consistently meets customer specifications.

These machines can handle a wide range of chain sizes from ½" pitch to 1¼" pitch, and are programmed to cut Leaf Chain, Roller Chain and produce Extended Pin Chains.

Increased Capacity and Reduced Lead Times

With two machines now operational, Donghua has doubled its cutting capacity enabling it to meet higher order volumes and reduce lead times further. This ensures faster turnaround times without compromising on quality, benefiting customers in industries where delays can be costly, such as the mining and quarrying industry.

Customer Satisfaction

Delivering tailored solutions is a key differentiator for Donghua in the competitive UK chain manufacturing market. By investing in cutting-edge technology and expanding its facilities, Donghua continues to meet, and exceed, customer expectations.

The automatic chain cutting service allows customers to specify exact measurements, reducing the need for further adjustments on site which is especially valuable for OEMs and maintenance engineers requiring precision-cut chains for immediate installation.

Future Plans

Donghua plans a further two machines, each dedicated to cutting specific chain ranges. For more information visit: <https://www.donghua.co.uk/>



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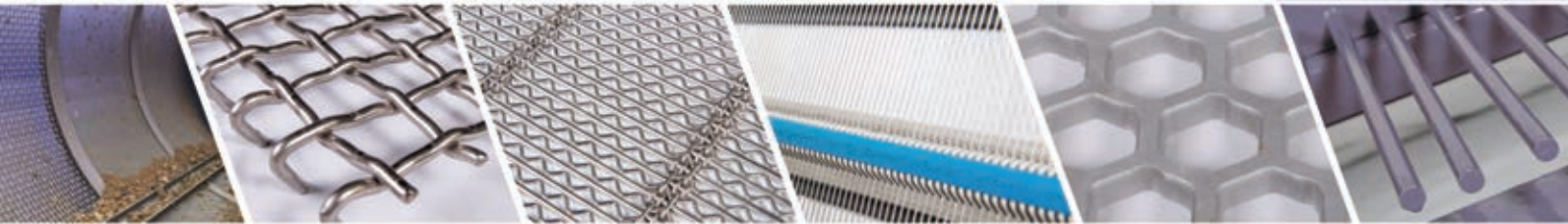
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