

Check out the very latest industry news at www.hub-4.com



25 Years of Trusted Expertise & Service



CRJ SALES

CRJ HIRE

CRJ SERVICE

CRJ PARTS

ROKBAK

BAK

YOUR AMBITION

Invest in a hauler with the quality, durability,
and sustainability that you'll need to succeed.



Strong and stable RA30 trucks carry the weight at New Caledonian mine



Three Rokbak RA30 trucks are delivering exceptional durability and performance at one of the world's most demanding mine sites in New Caledonia. These ADTs are playing a vital role in the region's nickel mining operations, transporting earth and water, showing off their stability and overcoming extreme terrain and weather conditions with ease.



A trio of Rokbak RA30 articulated haulers have been starring at a remote and extremely challenging site on an island in the middle of the Pacific Ocean. The trucks' resilience and reliability are standing out for heavy equipment specialists Hermant Group at one of New Caledonia's oldest nickel mines, SLN Tiebaghi.

Supplied by Webwihoon Import, the three trucks include one RA30 with a standard truck bed and two units equipped with specialised water tanks. Since their introduction to the site in 2021, the trucks have impressed operators and mine managers alike, performing essential tasks in an environment known for its heavy rainfall, sharp slopes and highly acidic soil. The units are transporting water and assisting in earth moving and proving a stable presence in unstable conditions.

The two units adapted with water tanks have been fitted with special flotation tires and reinforced with corrosion-resistant tanks, pipes and paintwork. Each truck's heavy-duty chassis and reinforced frame provide plenty of strength to accommodate the 29,000-litre water tank. These Rokbak ADTs are designed to thrive in New Caledonia's harsh working conditions and their stability, boosted by wide tyre options, is vital on the steep and uneven terrain.

"We previously experienced vehicle tip-overs with other water trucks but the Rokbaks have been rock solid," says Fabrice Hermant, Hermant Group Director. "We received our first unit in 2021 and were so impressed when it arrived we ordered a second just two weeks later."



The trucks are essential for dust suppression at a site where airborne dust particles contain harmful substances. To protect operators, the trucks are equipped with HEPA filters, ensuring a safe working environment inside the cab.

Built to perform

The other RA30 equipped with a standard flatbed is used to transport earth from the mine's retaining basins to a dump zone. This journey involves traversing tricky inclines and navigating narrow, rain-soaked roads in hot and humid conditions. But no matter the conditions, this Rokbak RA30 has delivered excellent and consistent performance, matching perfectly with 25-ton and 30-ton excavators removing the earth. Together the excavators and RA30 ensure optimised cycle times, inside the limited space available.

"The Rokbaks offer solid performance and give us confidence in our work," says Patrice. "There's great stability, power, braking and traction whenever we need it. Even in working in an environment where the local soil and water's acid content can corrode other equipment, the Rokbaks are holding up incredibly well."

Important roles to play

The nickel reserves of New Caledonia are amongst the largest anywhere, and the country is home to around a quarter of the world's total. Mining is integral to the country, and the Rokbak trucks are playing a crucial role in maximising efficiency in this important industry.

The trucks' work is also helping to minimise environmental impact at the site, ensuring that soil and ore sediments are



kept well away from natural waters and operating within the confines of the mine without any need to change the surrounding landscape.

"We're thrilled with the trucks' performance and reliability," says Fabrice. "They've delivered round-the-clock productivity with minimal downtime, despite the harsh conditions."



Non-stop performance

Since their arrival four years ago, the three Rokbak RA30 trucks have clocked up thousands of hours of continuous operation, with one unit working up to 22 hours a day, seven days a week. With a simple design and easy access to service points, Hermant Group has been able to conduct most of the maintenance on-site, ensuring uninterrupted operations.

"It's fantastic to see our trucks playing such an important role in New Caledonia," says Rokbak Regional Business Manager Lee Irving. "Assisting in earth moving, dust pollution control and water management at the mine demonstrates the versatility of these haulers."





**"It's been a real game-changer for us.
We're now producing aggregates and
sands that are 10% derived from
recycled concrete from
demolition waste."**



TRANSFORMING WASTE

Complete Solutions For Constructing A Sustainable Future

McLanahan offers industry-leading solutions for processing virgin aggregate as well as recycling construction and demolition waste. Offering complete systems from crushing and screening through tailings and water management, McLanahan helps producers meet industry demand by producing clean, in-spec products from both virgin aggregate and recycled aggregate. Our solutions offer producers the ability to recover process water for reuse, reduce freshwater requirements and further contribute to overall site sustainability.

Increase production, efficiencies and profit while working towards a more sustainable future with McLanahan.



WASHING // SCREENING // SCRUBBING // CLASSIFYING // CRUSHING // FEEDING // TAILINGS & WATER MANAGEMENT

mclanahan.com

In this issue

FEATURED STORY	3
WELCOME TO THIS ISSUE	7
COVER STORY	8
NEWS	11
HARPSCREEN FEATURE	13
SHREDDERS	14
RECYCLING	36
QUARRYING	44
BULK	52



Hub Digital Media Limited

**Issue 89 -
November/December 2024**

Advertising Enquiries:
+44 (0)114 3830243

Publisher **John Vincent**

Editorial & Marketing Director
John Edwards
07525 921714 john@hub-4.com

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

Graphic Designer
Jon Toft

Director **Sue Vincent**

Associate Director **Ash Young**

Welcome to issue 89

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 a review of Shredders available in the UK

If you're starting to look at marketing in 2025 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 first edition of 2025 will focus on **Aggregate Crushing & Screening** and I welcome any editorial contributions on this topic.

John Edwards

Editor

JANUARY | FEBRUARY 25



AGGREGATE CRUSHING & SCREENING –

screens, screen media, wear parts, spare parts, static & mobile crushing & screening, grizzlies, feeders, stockpilers, magnets, contract crushing.

RECYCLING - Open topics for this issue

BULK HANDLING - Open topics for this issue

Editorial copy deadline – 16th Jan 2025 Advert copy deadline – 23rd Jan 2025



Magazine Subscriptions - the HUB magazine is available free of charge within the UK, please send an email to subscriptions@hub-4.com stating your name, title, company, full postal address and email address.

We will then review your application. The Hub magazine is available for overseas clients on a paid subscription at £115, for six issues, please email subscriptions@hub-4.com.

Published six times a year.

CRJ Services celebrates 25 years of excellence in Waste Management and Recycling

CRJ Services Ltd, a leading provider of waste, recycling, and forestry equipment solutions, proudly marks its 25th anniversary this year. Over the past quarter-century, CRJ has grown from humble beginnings into an integral part of the waste management industry, driving the UK and Ireland towards a greener future.

A Journey of Growth and Innovation

Since its incorporation in 1999 by founders Lee Carter, Kevin Jones, and Andrew Reed, CRJ Services has consistently expanded its operations, forging a reputation for excellence. What began with a simple mission to process green waste has evolved into a comprehensive service offering, including equipment hire, sales, aftermarket parts, and service expertise across waste, recycling, and forestry sectors.

CRJ's success has been built on its unwavering commitment to helping the UK recycle, a dedication that has been recognised through nominations and awards from renowned industry bodies. With an unwavering focus on becoming the best provider in the industry, CRJ has achieved several key milestones over the years, such as becoming a dealer for Bruce Engineering, and an exclusive dealer for JENZ GmbH, HAAS Recycling Systems, and Pronar Trommel Screeners in the UK and Ireland. These partnerships, along with an expanding hire fleet of over 110 machines, underscore CRJ's dedication to delivering top-tier services to its customers.



Values That Drive Success

At the heart of CRJ's operations are the core values that guide its team: 'One Team', 'Customer First', and 'Deliver the Best'. These values ensure that every member of the CRJ family is aligned with the company's vision, takes pride in their work, and is committed to providing exceptional service to customers. Whether it's a challenging project or day-to-day operations, CRJ's team is united in their pursuit of excellence, always going the extra mile to meet customer needs and exceed expectations.

A Strong Leadership Team

CRJ Services' success is driven by its experienced leadership team. Andrew Clarkson, who joined CRJ as Finance Director in 2022, brings extensive experience in business transformation within fast-paced environments. His strategic financial oversight has been instrumental in steering CRJ's growth.

Ben McQuaid, Director of Sales, has been with CRJ since 2016 following the acquisition of his company, Matpro. His deep industry knowledge and sales expertise have been vital in expanding CRJ's market presence.

Lee Carter, one of the original founders, continues to play a pivotal role in CRJ's journey. His hands-on experience in the waste management sector laid the foundation for CRJ's success.

Rob Symons, Operations Director, joined CRJ in 2004 as a driver/operator and quickly rose through the ranks to become a key leader. Known as the 'face of CRJ,' Rob's operational expertise ensures the seamless delivery of CRJ's services, maintaining the high standards that customers have come to expect.

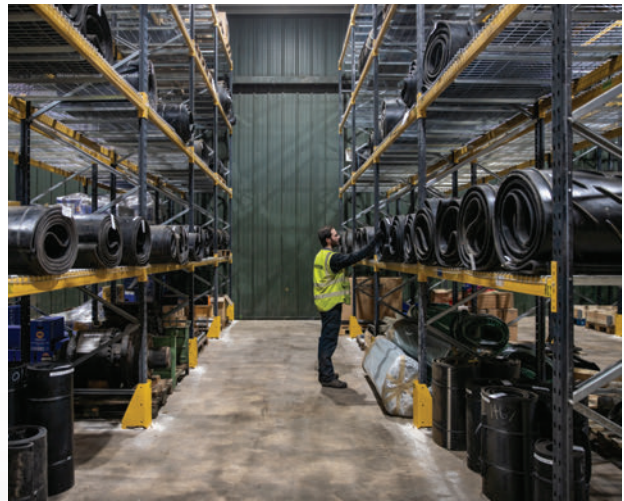




Milestones of Success

CRJ Services' journey is marked by numerous achievements, reflecting their commitment to growth and innovation. From the purchase of its first shredder in 2000 to expanding into a full-service offering by 2024, CRJ's milestones illustrate a company that has continually adapted to meet the needs of a changing industry. Notable accomplishments include:

- 2024 CRJ has 110 active machines within their hire fleet, over 70 employees across the UK (70% of the team forming part of the after-sale service and engineering team on-site and throughout the UK, and finally, awarded JENZ Dealer of the Year.
- 2023 Appointed exclusive dealer for Pronar Trommel Screeners in the UK & Ireland.
- 2022 Exclusive dealership rights for JENZ GmbH in the UK and Ireland, while expanding our parts facility with a combined spare parts stock holding value of over £2,000,000.
- 2021 Appointed a dealer for Bruce Engineering.
- 2019 Celebrated 20 years of operation and installed the first HAAS static wood recycling plant.
- 2016 CRJ Services and Matpro Machinery merged while becoming an exclusive dealer for HAAS Recycling Systems in the UK and Ireland.



"Celebrating 25 years at CRJ Services is not just a milestone, but a testament to the dedication and hard work of our entire team. From our early days with just a handful of machines to becoming a leading provider in the industry, our journey has been driven by a commitment to excellence and a shared vision of a greener future. We are proud of what we've accomplished and excited for what lies ahead as we continue to innovate and grow." — Rob Symons, Operations Director, CRJ Services Ltd.

Looking to the Future

As CRJ Services celebrates 25 years of excellence, the company remains focused on its goal to be the best provider of waste, recycling, and forestry equipment solutions in the UK and Ireland. With a strong leadership team, a dedicated workforce, and a clear vision, CRJ is poised to continue its growth trajectory, helping the UK and Ireland move closer to a sustainable and greener future.

For more information about CRJ Services and its journey over the past 25 years, please visit crjservices.co.uk or contact 01565 723886 or email enquiries@crjservices.co.uk

- 2005 Started servicing large accounts such as Biffa & Viridor
- 2000 – 2004 CRJ's awarded waste processing contracts by Congleton, Macclesfield, Nantwich, and Crewe Councils.
- 1999 CRJ is founded on Brookhouse Farm, Cheshire, and awarded a green waste processing contract from Cheshire County Council.

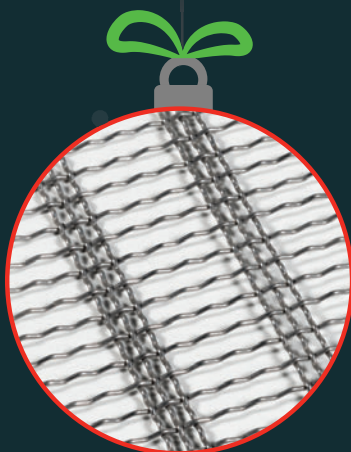
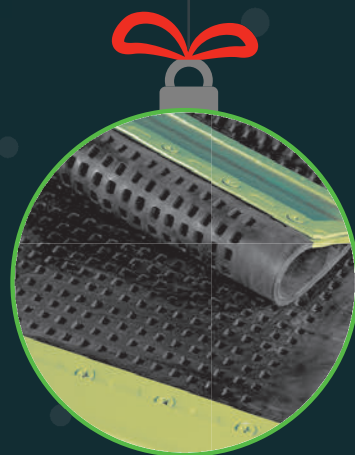




WISHING
YOU A VERY

*Merry
Christmas*

AND A
HAPPY NEW YEAR



FROM THE TEAM AT



HARPSCREEN.COM
SCREENING & RECYCLING CONSUMABLES



0845 2020 300 | SALESUK@HARPSCREEN.COM

Blue Machinery (Central) appointed as official Merlo Dealer



Blue Machinery (Central) Ltd is excited to announce its recent appointment as an official distributor for Merlo, covering a postcode spread throughout Cheshire, Lancashire, Merseyside, Shropshire, Staffordshire, West Yorkshire, West Midlands and Warwickshire. This strategic partnership enables Blue Central to offer the full Merlo Construction line, including compact, medium, high-capacity, stabilised, rotating, and electric telehandlers, along with the versatile Cingo tracked carrier range.

The addition of Merlo's cutting-edge equipment aligns seamlessly with Blue Central's existing portfolio, which serves sectors including construction, recycling, scrap, forestry & arb, and ports & rail. This expanded lineup enables Blue Central to better meet the diverse needs of these industries, offering a

comprehensive array of solutions to both existing and new clients within their territory.

Customers will benefit from Blue Central's leading service, which includes dedicated sales support, extensive aftermarket services, and the provision of genuine spare parts for Merlo machines. Blue Central aims to support all Merlo customers currently operating within their territory, in addition to welcoming new clients who can benefit from the company's high standards of customer care.

Owen Buttle, National Sales Manager at Merlo UK, expressed enthusiasm for the partnership, stating, "We are thrilled to join forces with Blue Central, a company with an outstanding reputation in customer service and industry expertise. This collaboration will not only strengthen Merlo's presence in the region but will also provide our customers with unparalleled support and access to our latest products."

Reflecting on this new partnership, Sean McGeary, Sales Director at Blue Central, added, "We are very excited to add the Merlo product range to our portfolio. Merlo is a strong match for our own core values and holds a substantial global market share and is a leading supplier within the UK market. We feel that the range complements our existing offering and aligns well with our core industry sectors, enabling us to enhance our portfolio to better meet the evolving needs of our customers. This partnership underscores our commitment to Adding value to material through leading brands and leading service."

EDGE INNOVATE'S

NEXT GENERATION

WASTE SHREDDER

VS420

SLOW SPEED SHREDDER

ROBUST. DURABLE. VERSATILE.

The EDGE VS420 is a **high capacity, high torque twin shaft shredder** that is ideal for the processing of a large array of materials including: green waste, MSW, C&D waste, biomass and end of life tyres.

INTELLIGENT SELF-PROTECTING CONTROL SYSTEM

1.

TWIN SHAFT DESIGN PROVIDES EXCEPTIONAL INTAKE

2.

LOW FUEL CONSUMPTION OF 25-30 LTR/HR

3.



Harpscreen celebrate 21 years in business



HARPSCREEN.COM

SCREENING & RECYCLING CONSUMABLES

21
YEARS
2003-2024

As the number one producer in the UK of screen media for quarrying and recycling, Harpscreen GB has already got plenty to celebrate, but never more so than this month, when it marks 21 successful years in business.

The industry that Harpscreen GB started out in 2003 is very different from the industry of today. In fact, the organisation itself has played an integral role in the transformation of the sector, growing from a small-scale business working alongside multiple competitors and manufacturers into what it is today – the largest manufacturer of media for screening and recycling consumables.

Before Harpscreen GB came along in its current form, quarry and plant owners and recycling businesses would have to down tools until a particular mesh or part could be ordered, manufactured and delivered, resulting in costly down time and hugely inefficient working methods.

Approaching the issue from the perspective of the client, Harpscreen GB recognised the need to have parts in stock, so they could be ready to go at all times with the result that the end user could continue production uninterrupted.

Thanks to this unique selling point, Harpscreen GB is now the go-to for clients in the UK and beyond who need a fast turnaround and who want to maximise their uptime.

But don't just take our word for it... Harry Hughes, mechanical maintenance manager at Torr Works, Aggregates South, talks about the 'Harpscreen difference' saying:

"We have been working with Harpscreen for some time now and approached them about the possibility of some cost saving options and they were very accommodating, coming out during weekend shutdown to measure up meaning production was not affected, a real plus for a busy production plant, As a result of working with Harpscreen we have managed to save our spend, allowing more budget for screen media."

Neil Cook, technical sales consultant, has been with Harpscreen GB since its inception 21 years ago and has witnessed the evolution of the business at first hand. He is delighted the organisation has reached its milestone birthday saying:

"I've seen how our commitment to quality and innovation has driven significant growth, establishing us as industry leaders. Our trajectory is clear, and I'm proud to continue playing a key role in shaping the future of this company."



THE HSGB TEAM:

Left to right Back Row: Daniel Johnston; Factory Manager, Paul Blanchard; Operation Director, Neil Cook; Technical Sales.
Left to Right Front Row: Sophie Hamilton; Accounts & Admin, Lisa McWhan; Technical Field Sales, Tony Kipping; Weaving Technical Supervisor, Lisa Haffenden; Office & Accounts Manager



Neil Cook & Lisa McWhan; HSGB Technical Sales Team



HSGB Factory Team - The Heartbeat of HSGB!

Lee Bednarczyk is a maintenance engineer with Veolia Ltd and he says Harpscreen GB has a proven track record with them: "Harpscreen have consistently proven to be a reliable and top-notch company. Their products are of excellent quality and their delivery is always on time. Harpscreen's commitment to customer service and product excellence makes them our go-to supplier. We highly recommend their services."



Harpscreen GB's ever-expanding list of satisfied customers is testament to the success of the business with industry big hitters such as Blue Machinery, Aggregate Processing and Recycling, Sure Equipment, SCG Supplies, McCloskey Equipment and Molson Equipment amongst its impressive clientele.

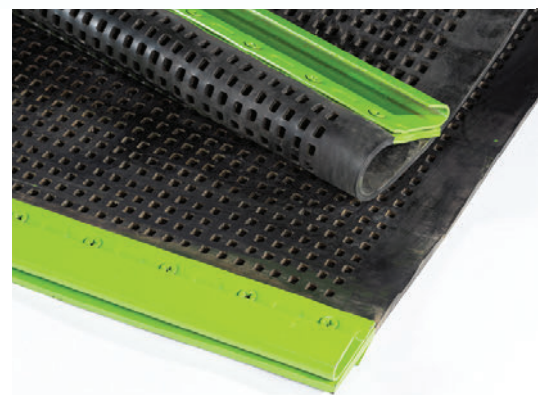
Customers who come back time and time again to Harpscreen GB cite its emphasis on customer service excellence among its best attributes together with a commitment to high quality products and rapid turnaround time. There just isn't anyone else in the industry who can do what Harpscreen GB do – hence the strapline: 'Discover the Harpscreen difference.'

Praise indeed for a business that continues to go from strength to strength and whilst he is keen to celebrate its success, operations director Paul Blanchard isn't sitting back on his laurels, saying: "In the 17 years I have been with Harpscreen GB, our team's dedication to transform not just a business but an entire industry has been amazing.

"Enjoying the highs and lows of growing our turnover from £2m to £7.5m annually has been challenging and rewarding in equal measure. We have demonstrated that hard work and vision builds leaders. We are number one in our field, ready to push on and conquer new markets in Europe, USA and Australia while standing proudly as a British manufacturer."

Harpscreen Limited
0845 2020 300
harpscreen.com

21
YEARS
2003-2024



A pioneering force

Established in 1971, TANA has been a pioneering force in the design and manufacture of robust machinery for solid waste management. With decades of expertise in meeting the needs of landfill and waste management operators, TANA expanded its operations to the UK, launching TANA Recycling Machinery UK. Located in Doncaster, South Yorkshire, TANA Recycling Machinery UK brings Nordic engineering excellence directly to the UK, delivering versatile, high-performance shredding solutions.

A standout in TANA's lineup is the TANA Shark Shredder, an exceptionally adaptable machine capable of handling diverse waste materials, from general waste, mattresses, tyres, and wood to plastic, commercial and industrial (C&I), and construction and demolition (C&D) waste. With its high torque and low-speed mechanism, the TANA Shark is built to take on tough recycling tasks while minimizing downtime, allowing operators to maintain peak efficiency.

One of the TANA Shark's most remarkable applications is in tyre recycling, including end-of-life tyres from cars, trucks, aircraft, and heavy-duty vehicles. Shredding tyres can be a challenge, but the TANA Shark handles it with ease, breaking down tyres to a consistent 80 mm particle size in a single pass. An over-band magnet on the unloading conveyor efficiently separates steel wires from the shredded material, adding value by preparing both the rubber and metals for resale and reuse.

The TANA Shark's flexibility extends to shredding various packaging materials and manufacturing rejects. Hard and soft plastics, cardboard, paper, containers, aluminium, gypsum, and even production line by-products can be shredded efficiently. Its single-shaft, high-torque design is specifically engineered for longevity and consistent performance, reducing the risk of breakdowns and eliminating the need for cooling periods. This ensures a continuous and reliable waste processing operation.



TANA
RECYCLING MACHINERY (UK) LTD.



The TANA Shark excels with challenging materials like mattresses, cables, wires, and ragger wires, which are notoriously difficult to recycle due to complex, mixed-material composition. For instance, mattresses contain textiles, latex, foam, springs, and wood, all of which the Shark can process in one pass. Magnetic separation of metals, such as springs and wires, further adds value by enabling these materials to be sold for recycling.

An additional advantage is the TANA Control System, which comes with 12 pre-programmed modes tailored for various materials and shredding needs. This system optimizes performance, allowing operators to achieve up to 20% higher profitability by reducing operational waste and producing a consistent range of particle sizes, even with difficult-to-shred materials like shingles and large tyres.

TANA ProTrack® further enhances operational efficiency by providing real-time tracking and data insights, enabling operators to monitor their shredding processes closely. With live tracking, TANA ProTrack® empowers teams to make data-driven decisions, improve workflow efficiency, and enhance overall productivity.

For more information or to explore the potential of TANA's shredding technology, contact TANA Recycling Machinery UK. M: 07447 404 760 T: 01302 872431 E: enquiries@tanauk.com



McCloskey Environmental ES-250 Shredder: setting new standards in the Recycling Industry



The ES-250 shredder is making waves in the recycling industry, setting a new benchmark for efficiency and sustainability. Designed to handle high-volume waste processing, the ES-250 delivers unmatched performance, significantly reducing operational downtime while maximizing throughput. This innovative machine ensures enhanced material recovery, which is vital for modern recycling facilities aiming to increase efficiency and meet sustainability goals.

With its versatile shredding capabilities, the ES-250 can process a broad range of materials, from wood waste to metal scrap, making it an indispensable asset for recycling operations of all sizes. Not only does it contribute to reducing landfill dependency, but its energy-efficient design also helps companies lower their overall carbon footprint.

Additionally, the ES-250 boasts cost-effective operations with reduced energy consumption and durable components that minimize maintenance costs. Its user-friendly controls and streamlined maintenance process further ensure that operators can maximize productivity with minimal interruption.

As the demand for effective waste management continues to grow, the McCloskey ES-250 shredder stands out as a top choice, offering recycling facilities the tools needed to meet both their environmental and operational goals.

Model: ES-250 Track Shredder

- **Weight:** 35,000Kg (77,160Lbs)
- **Engine Emissions:**
CAT C13B Stage V / Tier 4 Final / Volvo D13
- **Nominal Torque:** 80,000nm per shaft
- **Drive System:** Asynchronous high torque motor drive
- **Rotor Length:** 2.5m
- **Number of rotor knives:** 16-20
- **Cutting Table:** heavy duty open cutting table design



The world's toughest recycling plant

We build recycling plant to last.
It's that simple.

Get in touch to find out more on how our experts can help to deliver your waste management strategy.

T +44 (0) 28 8773 8811
E info@kiverco.com

Kiverco recycling plant offers:
More uptime
Higher sustained purity
A longer useful life.

kiverco.com

LINDNER

MERAK 2800

ULTIMATELY VERSATILE.



www.machtechservices.com
sales@machtechservices.com
01706 838 246

For detailed
product information,
pictures and videos:



The Edge Shredder range

EDGE SLAYER XL

The EDGE SLAYER XL high-torque shredder, designed for waste processing and recycling applications. This 24 tonne waste shredder is powered via a Caterpillar, 420hp STAGE V engine and offers superb fuel economy with an average fuel consumption of less than 25ltr/hr. Housing twin, 2m long shredder rotors controlled via EDGE's intelligent load management system, the SLAYER XL provides extreme reliability, maximum uptime and consistent product throughput. The SLAYER XL is available in a number of different chassis formats included wheeled, tracked, static and hooklift with diesel/hydraulic or direct electric power options. Its versatile design and robust build provide excellent performance in the toughest of waste streams, including wood waste, domestic household waste and construction and demolition waste.

Model: EDGE SLAYER XL

- **Weight** 23,750KG
- **Engine Emission** STAGE V / TIER 4 FINAL
- **Rated Power** 310Kw (420HP)
- **Rotor Length** 1.9m
- **Screen size** 50mm – 200mm
- **Screen Area** Variable



EDGE VS420T

With many units already in operation across the UK, the EDGE VS420 high capacity waste shredder has a proven track record for processing an array of materials including; green waste, MSW, C&D waste, biomass and end of life tyres.

EDGE's next generation shredder has been developed for ultimate versatility and high resistance to contaminants with a number of customisable shredding programmes and chamber configurations available. An intelligent operating system which incorporates tramp metal protection provides the ultimate protection from contaminants and prevents asset damage.

At the heart of the VS420 slow speed shredder are twin synchronised, high torque shredder shafts which can be customised to suit a customer's exact application and desired product piece size. EDGE's twin shaft design provides exceptional material intake, ensures less wear, promotes self-cleaning and prevents material wrapping even in the toughest of applications. Thanks to the VS420's modular design, the VS420 is easily suited for tracked, wheeled or hooklift mounted chassis formats with all major components being accessible and easy to remove.

EDGE VS420 Shredder



Model: EDGE VS420

- **Weight** 29,200KG
- **Engine Emission** STAGE V / TIER 4 FINAL
- **Rated Power** 310Kw (420HP)
- **Rotor Length** 2m
- **Screen size** 50mm – 200mm
- **Screen Area** Variable

EDGE VS420E

The EDGE VS420E Hybrid waste shredder combines the benefits of a portable unit and stationary electric unit, offering reduced CO2 emissions, lower operating costs, and increased uptime. It replaces the 310kW CATERPILLAR engine with two electric motors, matching the production capacity and torque of its diesel equivalent. A small 55kW diesel engine supports mobility and setup, while an auxiliary motor provides setup functions in both "Electric" and "Diesel/Hydraulic" modes. The VS420E features EDGE's "Plug and Shred" technology for quick grid connection and integrates Intelligent Load Management and VS Status Alert Systems for efficient loading and minimal downtime. With zero emissions and low noise, the VS420E is suitable for indoor and environmentally sensitive applications. EDGE's extensive experience and range of tooling options ensure optimal performance tailored to user needs.

Model: EDGE VS420E

- **Weight** 31,100KG
- **Power Source** Direct Electric
- **Aux Power** 55Kw (74HP) Diesel engine
- **Rotor Length** 2m
- **Screen size** 50mm – 200mm
- **Screen Area** Variable



EDGE VS750i

The EDGE VS750i is a high capacity, twin shaft, primary shredder that is ideal for processing a wide range of material types including, municipal solid waste, industrial waste, commercial waste and bulky waste. It is designed to meet the needs of waste processing operations where the incoming materials vary greatly in size, composition, shredding difficulty and contains a high percentage of non-shreddables.

The interaction between the large cutting table and highly aggressive rotating knives on the dual shafts, which run asynchronously in both directions, ensures the input material is constantly moving to prevent bridging and maximize processing efficiency. Key features include a 563 kW (755 HP) Caterpillar engine, twin 2.5m (8'2") long shredder shafts made from solid steel, an open cutting table, hydraulic hopper extensions, an automatic tipping hopper, and a "One Point" service area for easy maintenance.

With consistently high throughput, robust construction for tough applications and EDGE Innovate's intelligent load management system, the VS750i ensures maximum uptime and smooth operation.



Model: EDGE VS750i

- **Weight** 46,300KG
- **Engine Emission** STAGE V / TIER 4 FINAL
- **Rated Power** 563Kw (750HP)
- **Rotor Length** 2.5m
- **Number of Knives** 6,8,10, 12 knife Configuration
- **Cutting Table** Dependent on Rotor Configuration



Supplying
the market's
leading brand
for 20 years



Doppstadt

BLUE-GROUP.COM



Ready, steady, shred

The UK market is one the most competitive in the world when it comes to material processing and recycling. Manufacturers from all over the world are present on these shores none more so than the shredder market.

With all that choice the most important thing for any customer is to work out what they want their shredder to actually do for them. The first question is obviously what do you want to shred and what end product do you want? Aligned to this has to be the size of the machine, along with the cutting system, capacity and throughput and if pre-shredding is a requirement.

Whilst all of these are crucial, practical purchase decisions, there are some wider things that are equally important. Red Knight 6 (RK6) are the distributors in England and Wales for EDGE Innovate, manufacturers of the market leading VS420 slow speed shredder. "Of course, the machine is important, along with price, but we believe demonstrations play a key role, we want people to see machines in action," says Paul Donnelly, Managing Director of RK6. "In addition machines are only as good as the backup offered. We pride ourselves on our service and back up and whenever we take on a new partner we ensure the partner can live up to that as well. This is particularly true of EDGE Innovate."

The VS420, developed for ultimate versatility, is a high-capacity machine, capable handling an array of materials including green waste, MSW, C&D waste, biomass and end of life tyres. Developed for ultimate versatility and with a high resistance to contaminants there are a number of customisable shredding programmes and chamber configurations available. An intelligent operating system which incorporates tramp metal protection provides the ultimate protection from contaminants and prevents asset damage.



Operational data

Length	Width	Feed in height	Max discharge height	Weight	Shaft length	Shaft speed
13413mm	2550mm	3138mm	4723mm	29200kgs	2 metres	Variable – max 40RPM



At the heart of the VS420 are twin synchronised, high torque shredder shafts which can be customised to suit a customer's exact application and desired product piece size. EDGE's twin shaft design provides exceptional material intake, ensures less wear, promotes self-cleaning and prevents material wrapping even in the toughest of applications. With a range of both rapid volume reduction and intricate piece sizing.

The intelligent management system allows optimal performance, combined with large slow speed reversing shafts leads to reduced noise, power consumption and maintenance costs. The Status Link system allows for quick and simple communication to the operator via easy-to-understand lighting that will update on the performance of the machine and whether loading should continue or pause for any reason.

Appointed by EDGE Innovate in July 2022, RK6 are leading distributors of crushing and screening equipment throughout the UK and Ireland, working with leading brands such as Rubble Master, Komplet and MDS. Northern Ireland based EDGE Innovate also design and distribute a range of trommels and stackers around the world which are also available from RK6.



 **TEREX®**

 **ECOTEC**

TDS 825

SLOW SPEED SHREDDER



HIGH CAPACITY SHREDDING



Customisable Shredding
Programs



Large 2.5m Dual
Shaft Shredder




Aggressive Independent
Shaft Drive



Easy Service
Access



High-Powered 566kW
(770HP) Engine

 Electric option available

RECOMMENDED APPLICATIONS: Household Waste | Bulky Waste | Commercial Waste | Wood Waste | Green Waste | Forestry Waste

SHREDDING | SCREENING | HANDLING | SEPARATING | CONVEYING

www.terex.com/ecotec

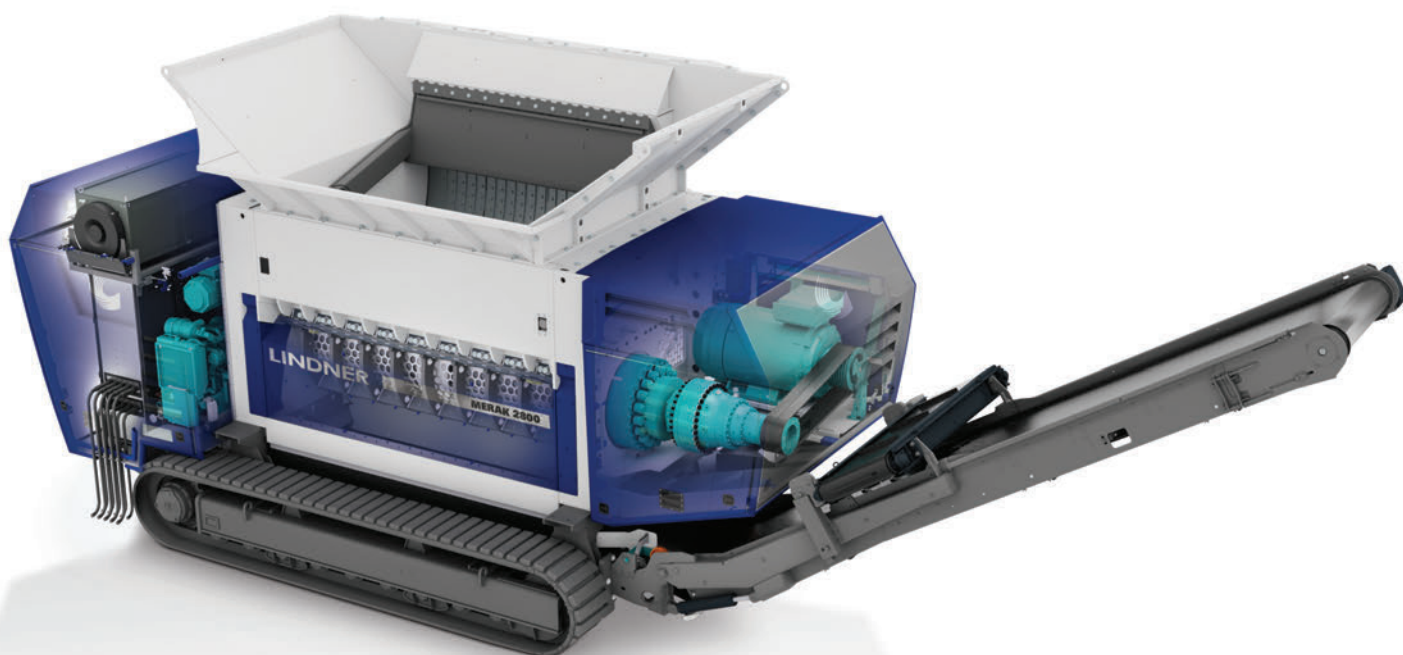


GSH Waste Recycling Ltd choose the Lindner Merak 2800 supplied by Machtech Services Ltd



GSH Waste Recycling Ltd (formerly Grundy Skip Hire Ltd) offers a comprehensive range of skip hire services to meet every requirement. GSH Skips have been leading the way in waste disposal services across the North West for more than 40 years GSH Waste Recycling specialise in

skip hire all over the North West, covering Liverpool, St Helens, Runcorn, Widnes and Warrington areas and their friendly, knowledgeable team are always on hand to offer their expertise should you need any advice.>



GSH Skips are also at the forefront of the latest development by Austrian shredder manufacturer Lindner Recyclingtech and UK partners MachTech Services Ltd. The Lindner Merak 2800, the first to reach the UK was originally planned for a week-long trial on Merseyside, but before the trial was even halfway over GSH Skips had made the decision to purchase the machine. A Spokesperson for GSH Skips stated 'We've operated other machinery from Lindner, we have a Lindner Polaris in operation at the moment, the build quality of the equipment and the back up from MachTech Services is second to none, so once we'd seen this beast in action, on various screen sizes and on differing waste streams we knew it would immediately improve our productivity and versatility.'

The Merak is the new star of Lindner's product family, setting new standards in versatility, productivity and throughput. The innovative cutting system enables the shredder to be used for everything from coarse pre-shredding to universal and post-shredding, achieving particle sizes that range from 30 to 350 mm. Thanks to the sophisticated electric drive concept with three transmission ratios (55, 87 and 103 rpm), the rotor speed can be adapted to the input material, which means that shredding is always carried out at the optimum operating point, achieving even greater efficiency.

The powerful single-shaft shredder impresses with its robust design and added mobility. 100% electric, the innovative drive concept with three different cutting units and the ideal adjustment of the rotor speed to the specific material requirements ensures maximum efficiency and productivity. Moreover, the internal pusher supports continuous throughput. The wet-running safety clutch protects against damage to the cutting and drive components in the event of blockages caused by contaminants, which are easily removed using the door that opens inwards. In addition, the self-sufficient auxiliary unit allows the shredder to be moved flexibly and all hydraulic functions to be operated independently of the electric power supply, e.g. for maintenance purposes.

The Merak universal cutting system was developed for primary shredding as well as for one-step processing of a wide variety of material streams to a defined output size. The closely arranged rows of knives in combination with adjustable speeds ensure high throughput, efficiency, and capacity to shred diverse materials and allow for different applications, in each case depending on the requirements and screen diameter. Both the knives and the knife holders are screwable, so that the individual components can be replaced quickly and easily if necessary.

The Merak secondary shredding cutting system is specially designed for small output sizes from 30 to 120 mm. Depending on the application and screen size, this cutting unit is ideal for the secondary shredding of waste wood or the processing of industrial and commercial waste into medium-calorific substitute fuel and to fuel calciners.

Thanks to its electric drive, the Merak drive system offers maximum energy efficiency. The proven combination of V-belt drive and ABB asynchronous motor also guarantees exceptional reliability.

Whether primary, universal, or secondary shredding - the Lindner modular system with its different drive and cutting units combines a wide range of applications with an unrivalled variety of materials - always at the optimum operating point. Equipped with a torque-controlled safety clutch, downtimes are minimised, protecting both the cutting unit and drive components. The optionally available automatic belt tensioning system (ATB) also makes sure that the power is optimally always transmitted.



The complete range of Lindner machinery is available in the UK and Ireland exclusively from MachTech Services Ltd.



The EDGE VS420 shredder available from Red Knight 6 Ltd

The leader for shredding domestic &
general waste, wood and green waste

Call - 01293 862619 www.redknight6.co.uk



**INNOVATION
AT WORK**



TANA

RECYCLING MACHINERY (UK) LTD.

The **Shark** 440DT **Eco**

POWER IN VERSITILITY

The shredder that not only
meets expectraions but
suppasses them with
every application.



enquires@tanauk.com | Tel. 01302 872 431



Welding Alloys offer a proposed solution which involved a complete rebuild of the shredder



Jon Scholtz - JTC engineering

Welding Alloys was recently approached by JTC Welding & Engineering for technical expertise and support in carrying out a critical task- the repair of an industrial shredder, a key component used in the recycling of household waste. The shredder was in a poor state, and the customer recognised that they would need advanced welding wires to carry out the repair. They were aware that Welding Alloys was well-positioned to offer an effective solution but required guidance in choosing the right product to suit the specific needs of the shredder. Welding Alloys was invited to visit the site and assess the situation in person, and on arrival, the issue was made clear. The shredder had suffered extensive damage throughout, more specifically, to the blades attached to the main body. Over time, the abrasive action of waste particles and the corrosive effects of its acidic residues culminated with the total disfiguration of the blades, ending in a drastic decrease in the shredder's overall efficiency and service life.



New blades welded onto the shaft

Initially, several competitors attempted to address the problem through various onsite repairs. Unfortunately, these efforts were inadequate and superficial, involving welding that only masked the visible issues on the surface of the blades without addressing the root cause. This approach merely postponed the inevitable, allowing the underlying problem to worsen.

Due to this issue being left unmanaged for so long, the problem persisted, transforming the base of the blades from rectangular and sturdy into a thin, unstable V-like structure. This change caused unshredded waste to collect and circulate in the space at the base instead of being shredded as intended, causing irreparable damage to the gearbox and as a result, severely escalating the final repair costs and overall downtime of the machine.



Manufactured new blades



Welding of the new blades

Recognising the need for a more robust solution to their problem, JTC Welding & Engineering decided to collaborate with Welding Alloys. The proposed solution involved a complete rebuild of the shredder, starting with the complete removal of the old blades from the shaft using a mixture of air arc gouging and oxy fuels to remove worn parts from the shaft.



Original worn blades before repair



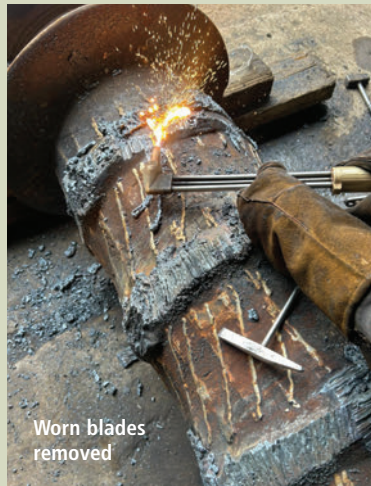
Worn shredder before repair



Repaired shredder ready to be installed at the customer's site



Shaft ready for new blades



Worn blades removed

JTC Welding & Engineering ordered new fabricated blades and tooling from a UK manufacturer. Welding Alloys provided support in supplying the most suitable hardfacing wire for the task. ROBODUR K 650, one of our best-selling seamless copper-coated wires, was identified as the ideal consumable for this application to protect the shredder from wear. The hardfacing was performed using the ROBODUR wire, significantly improving abrasion resistance and offering an effective solution to withstand the demanding operating conditions of the shredder.

Additionally, for all the V-prepped fillet welds, the customer applied Welding Alloys' ROBOFIL R 71+ seamless flux cored wire, to ensure the highest integrity and quality of each weld required for the repair. While this comprehensive rebuild required a larger initial investment than the previous patchwork repairs, the result promises a variety of long-term benefits such as an extended service life and a drastically reduced Total Cost Ownership (TCO).

This project highlights both the effectiveness of Welding Alloys' products and the importance of addressing equipment wear and tear with appropriate, high-quality solutions. By opting for a complete rebuild with advanced materials, JTC Welding & Engineering is setting a precedent for maintaining critical recycling infrastructure and ensuring operational efficiency for years to come.

**We handle it all,
so you don't have to.**



For Welding Professionals

Your complete partner in innovate welding and wear solutions



Hardfacing Flux Cored Wires Chromium Cast Irons, Cobalt based alloys, Nickel based alloys

Joining Flux Cored Wires Carbon Steel, Cr/Mo Duplex, Super Duplex, Stainless Steel

Integra™ Services Engineered wear products and services carried out in situ or in our workshops

High Alloy Solid Wires Alunox - a Welding Alloys Group company - Stainless steel, Duplex, Super Duplex

Steel Plates, Ceramics, Advanced Coating Solutions Produr - a Welding Alloys Group company

contactus@welding-alloys.com
www.welding-alloys.com



HYBRID ELECTRIFIED

REMAX 600X

bauma
APRIL 7-13, 2025, MUNICH
SAVE THE DATE
Hall B2.249

max. 600 t/h
max. 79,800 kg
520 KVA
1400 mm

**MAXimise
your results!**

SBM

MINERAL PROCESSING

SBM Mineral Processing GmbH
office@sbm-mp.at www.sbm-mp.at

Since 40 years pioneering in **diesel-electric/full electric** mobile crushing.

Hybrid **JAWMAX®** jaws and **REMAX** impactors from 30 to 150 t.

Fully integrated – easy-to-transport – **class-leading performance.**

Blue Machinery Celebrate 20 Years of Partnership with Doppstadt

This year Blue Machinery proudly celebrates two decades as the UK's exclusive dealer for Doppstadt. This milestone represents a longstanding partnership rooted in shared values of innovation, quality, and service excellence.

Originally as a dealer for Powerscreen, supplying crushing and screening equipment to the quarry and aggregates sector, the Blue Machinery companies recognised a pivotal shift in 2004. With the rapid growth of the recycling industry in the UK, the need to diversify into this market became evident. Blue identified Doppstadt as the perfect partner, a respected brand with a strong reputation in shredding and screening technology but with limited coverage in the UK. This mutual need led to an introduction, and soon after, Blue Machinery was appointed as the exclusive dealer for Doppstadt across the UK.

Since then, Blue Machinery has sold over 500 Doppstadt machines in the UK, solidifying Doppstadt as a cornerstone supplier within its portfolio. Doppstadt's pioneering shredding and screening solutions have enabled Blue Machinery to become a leader in the recycling market, consistently delivering quality, reliable equipment that meets the evolving demands of UK customers.

Over the years, Blue Machinery has supplied an impressive array of Doppstadt's high-speed and slow-speed shredders, as well as their renowned trommel screens. Recent product introductions, such as the Inventhor 6.2 slow-speed shredder and the new SM 620.3 trommel screen, reflect Doppstadt's commitment to continuous improvement and innovation, enabling Blue Machinery to bring the latest advancements to UK customers.

Doppstadt machines have become known for their reliability and advanced technology. Customers have benefited from efficiency, durability, and innovative design of Doppstadt equipment, which has consistently met the needs of even the most demanding recycling operations.

As part of its commitment to providing exceptional service, Blue Machinery has dedicated itself to supporting and maintaining Doppstadt equipment through a highly trained team of engineers. Regular training sessions at Doppstadt's factories ensure that Blue Machinery's service team is well-equipped with the latest technical knowledge, providing customers with unparalleled expertise and support.

As the recycling industry continues to evolve, Blue Machinery is excited to further strengthen its partnership with Doppstadt. "We're proud of the journey we've shared with Doppstadt over the last 20 years," says Sean McGeary, Sales Director at Blue Machinery (Central). "Doppstadt's commitment to innovation and quality aligns perfectly with our mission to bring the best equipment to the UK market. We look forward to continuing this partnership for many years to come."





Reflecting on the milestone, Gerd Schreier, Managing Director at Doppstadt, adds, "Blue Machinery has been an outstanding partner for us in the UK. Their expertise, dedication, and commitment to customer service have played a significant role

in establishing Doppstadt's reputation in this market. We are thrilled to celebrate 20 years of collaboration and look forward to many more successful years together."





THE ONLY
ROLL ON - ROLL OFF (RO-RO)
RADIAL TELESCOPIC
ON THE MARKET

FIND OUT MORE



TSR40


Telestack®
Mobile Bulk Material Handling

The TSR 40 allows for up to +30% larger stockpile capacity when compared to conventional fixed length conveyor systems and with the added benefit of increased site mobility to that of the standard radial telescopic design.



www.telestack.com

Shred more, earn more with the new EDGE VS750i Primary Waste Shredder

EDGE Innovate reveals its latest innovation in industrial waste management at Hillhead 2024. Engineered to set new standards in efficiency and versatility, the VS750i TM Primary waste shredder is designed to handle a broad range of materials and to meet the diverse needs of modern waste processing facilities.

A Revolution in Shredding Technology

The EDGE VS750i represents a significant leap forward in the waste management industry. The powerful VS750i is engineered to process bulky, industrial, and various other materials with ease, reducing them to manageable piece sizes. This capability significantly lowers the volume of shredded material, cuts transportation costs and allows for greater extraction of commodities. With its ability to be positioned near collection points in plants and landfills, the VS750i offers unparalleled convenience and operational efficiency.

The EDGE VS750i excels in environments where incoming materials vary greatly in size, composition, and shredding difficulty. It features robust dual 2.5 m (8'2") long rotors made from solid steel and equipped with aggressive, Hardox manufactured rotating knives that run asynchronously in both directions. This design ensures constant material movement, preventing bridging and maximizing processing efficiency.



Kevin Kelly, Product Development Manager - EDGE Innovate, stated, "The VS750i is equipped with our advanced intelligent operating system, which includes tramp metal protection. This system safeguards the shredder from contaminants, preventing asset damage and allowing it to process a wide array of materials swiftly and safely, including municipal solid waste, industrial, commercial, and bulky waste. Its multiple chamber configurations enable customization to meet specific product sizing with huge production capacity requirements."

Built for Tough Applications

The VS750i is constructed to withstand the toughest applications. Capable of shredding a wide range of materials such as, household waste, construction debris, and compacted waste bales, it's ideal for use in recycling plants, refuse-derived fuel (RDF) production, incinerators, and large hazardous waste plants. The shredder's 563 kW (755 HP) Caterpillar engine, open cutting table, hydraulic hopper extensions, automatic tipping hopper, and "One Point" service area for easy maintenance underscore its robust and user-friendly design.



Delivering consistently high throughput—up to 150 tons per hour depending on the input type, knife configuration, and loading procedure—the VS750i ensures maximum uptime and smooth operation. EDGE Innovate's intelligent load management system further enhances its performance, making it a reliable choice to keep production lines moving efficiently.

Combining EDGE Innovates Intelligent Load Management System and the VS Status Alert ensures the efficient loading of the shredder leading to consistent high throughputs with minimal downtime. EDGE's "track and shred" functionality compliments this combination, allowing the VS750i to be repositioned without the need to stop shredding.

The VS750i is also available as a static electric unit, offering significantly reduced operating costs, less servicing, and no refuelling time. Ideal for markets with environmental, legislative, or noise constraints, the VS750i Static Electric matches the production capacity of its diesel/hydraulic counterpart. Its reduced maintenance needs and higher uptime ensure unbeatable dependability with operators being able to customize the unit to meet specific application requirements or retrofitting into an existing waste processing plant.

Tom Connolly, Global Sales Manager, "EDGE Innovate continues its tradition of producing robust, high-performance equipment with the launch of the VS750i. This latest product is the ultimate high-capacity twin-shaft primary shredder for diverse and demanding waste processing. The VS750i reaffirms EDGE's commitment to leading the recycling industry with advanced processing solutions that meet the evolving demands of waste management".

For more information or to schedule a demonstration, please visit our website at www.edgeinnovate.com or contact our sales team at info@edgeinnovate.com

Kiverco delivers multi-million pound plant for Westminster Waste



Northern Ireland-based Kiverco is pleased to announce the successful completion of its recycling plant installation for Westminster Waste, a prominent waste management company based in London. This waste solution is one of the largest of its kind in the South East of England, designed to process three distinct waste streams: Construction and Demolition Waste (C&D), Commercial and Industrial Waste (C&I), and wood. This multi-million-pound investment represents a major milestone for both companies, further strengthening their strong partnership.



This is the third time Westminster Waste has chosen Kiverco as their preferred supplier, and it underscores the trust and confidence they have in Kiverco's expertise, innovation, and quality of service. The collaboration between the two companies dates back to 2017 when Kiverco initially supported the upgrade of Westminster's existing plant. Impressed by the durability and reliability of Kiverco's machinery and the exceptional aftercare service, Westminster Waste decided to turn to Kiverco when planning the relocation of its business.

Westminster Waste visited various key recycling facilities within the UK, where they witnessed first-hand the efficiency and effectiveness of Kiverco's waste separation machinery. Westminster's objective was to divert 100% of waste from landfill while enhancing throughput and the purity of its waste. To achieve this, the company was keen to increase the efficiency of the waste separation process through automation, reducing dependency on manual labour.

Kiverco's technical team invested time from the outset of the project to fully understand Westminster's objectives. Working extensively with Westminster Waste in conjunction with 3rd party technology partners, Kiverco has developed a solution that will deliver outstanding results for Westminster's very busy site in the heart of London.

The Kiverco plant is designed to manage the high bulk density synonymous with construction and demolition waste—a challenge widely acknowledged in the waste management sector. With a processing capacity of up to 60 tonnes per hour, and incorporating some of the best automation technology available, the plant showcases exactly what is possible when two companies strive for excellence, and sets the standard for the future of C&D separation in the future.

Dominic Moule, Managing Director, stated: "This is a huge investment for Westminster Waste, so it was important to work with a highly reputable company who knows what they are doing to deliver our newest facility. Kiverco has been a huge support to us over many years and we are delighted that they have once again designed and delivered an excellent solution to support our company's future growth."

Speaking about the project, Sales Manager JP Devlin said: "We are incredibly proud to have partnered with Westminster Waste on this exciting project. The successful delivery of a more automated plant for Westminster Waste demonstrates Kiverco's commitment to providing innovative solutions and our dedication to meeting and exceeding our clients' expectations. We build recycling plant that's built to last and keeps your business running. All day, every day. We are confident that this plant will play a pivotal role in helping Westminster Waste achieve high levels of purity to meet their sustainability goals, diverting more waste from landfill than ever before. The Kiverco team extends its gratitude to Westminster Waste for their trust and partnership in this endeavour, and we look forward to continuing to support their waste management initiatives in the years to come."

Kiverco, based in Dungannon, Northern Ireland, is a trusted leader in the design and manufacturing of recycling plant solutions. With a focus on building lasting relationships with customers, Kiverco designs and delivers bespoke solutions tailored to each client's specific needs. The company is known for its commitment to environmental sustainability and for providing cutting-edge recycling equipment.



METAL-FREE, WORRY-FREE

An Investment for Peace of Mind



Suspended Magnets

Investing in an Eriez suspended magnet and MetAlarm metal detector provides decades of worry-free operation. When it comes to protecting your equipment from dangerous tramp metals, make the right choice. Invest in the best.

Eriez. Always the right choice.



MetAlarm Metal Detectors

ERIEZ

GLOBAL LEADER IN SEPARATION TECHNOLOGIES



www.eriez.eu

STADLER Digital Solutions: transforming recycling with smart, data-driven plant optimisation

STADLER Anlagenbau GmbH, the globally active German company specialised in the planning, production and assembly of turnkey recycling and sorting plants, is transforming plant operations with its digital solutions developed specifically for sorting facilities. Its cloud-based platform STADLERconnect provides a single access point for the company's digital solutions and harnesses machine and material data to optimise sorting plant performance. By pioneering digital solutions, STADLER is advancing the recycling industry towards a new era of smart, data-driven sorting plants.

STADLER is transforming recycling plant efficiency with its digital solutions specifically tailored for sorting plants with a focus on optimising operations. Through its comprehensive cloud-based platform STADLERconnect, the company offers recycling and sorting plants a single-access-point solution for its digital products, helping them unlock the full potential of machine and material data to drive impactful operational improvements. It is designed to deliver added value to recycling plants of all types and sizes and offers customized views for both operators and management.

With digital solutions taking on an increasingly critical role in the recycling industry, STADLER has made it a core strategic priority – both in its operations and in the sorting plants it designs. Julia Stadler, Chief Digital Officer, explains: "At STADLER, we view digital solutions as crucial for maximizing the performance of recycling plants, positioning them as a core part of our innovation leadership. Our strategy centres on sustaining our role as the market leader and a pioneer in designing and building turnkey recycling facilities."

Avoiding Downtime with Predictive Maintenance

Predictive Maintenance, one of the STADLERconnect modules, enables a proactive approach to equipment maintenance with the help of sensors, providing operators with instant alerts on any critical changes in sensor data before potential issues arise. This early warning capability allows for immediate

inspections, minimising costly production delays and reducing the risk of sudden breakdowns.

Andreas Stöcker, Deputy Operations Manager at REILING has seen notable benefits with this system: "The installation of Predictive Maintenance resulted in easier maintenance and allowed for forward-thinking planning of service work, as every small change to the machine is immediately reported. Before we decided on this solution, some bearing damage would occur very suddenly. With the measuring system, we can prevent this issue from happening. From the short time we have been using the measuring system, I can say that it should be installed on every machine from the beginning, although, including it subsequently makes sense as well."

"From a planning perspective, we've seen significant improvement," said Pieter Van Camp, Lead of Maintenance at INDAVER, another customer using STADLERconnect at its sorting plant. "Operating at a high level of technical availability (95%), every instance of downtime greatly impacts production. With the implementation of these sensors, we feel more secure knowing we can continuously monitor the condition of our machinery. For example, by monitoring the ballistic shafts, we can track their condition in real time and observe any decline in performance. This capability allows us to extend their operational lifespan and precisely determine the optimal time for replacement. As a result, we're saving both time and money! Overall, our experience with the wireless sensor system has been transformative."



STADLER's Digital Solutions: Driving Efficiency and Customer Value in Sorting Plants

In developing its digital solutions, STADLER has pursued a twofold objective: delivering added value by using key data insights to enhance plant operations, and applying these insights to improve both plant design and after-sales service.

"Our digital solutions are purpose-built for sorting plants, directly addressing the needs of plant operators," says Julia Stadler. "Leveraging our extensive OEM expertise, we ensure greater accuracy in areas such as determining conveyor equipment status. Our team combines software development and engineering expertise. This approach goes beyond simple data collection and visualisation: our solutions leverage new and existing data points to drive meaningful operational improvements."

"There is strong momentum for digital innovation in the recycling sector, with a growing number of recyclers adopting these solutions to lower operational costs and boost plant performance," adds Julia Stadler.

STADLERconnect: Maximising Plant Performance with Data-Driven Tools

STADLER's portfolio of digital solutions can be accessed through STADLERconnect. This cloud-based platform harnesses machine and material data to maximise the availability, performance and overall process efficiency of sorting plants.

Powered by real-time plant data and Artificial Intelligence (AI), STADLERconnect is an integrated solution that adapts to varied plant configurations and needs. It focuses on two core areas.

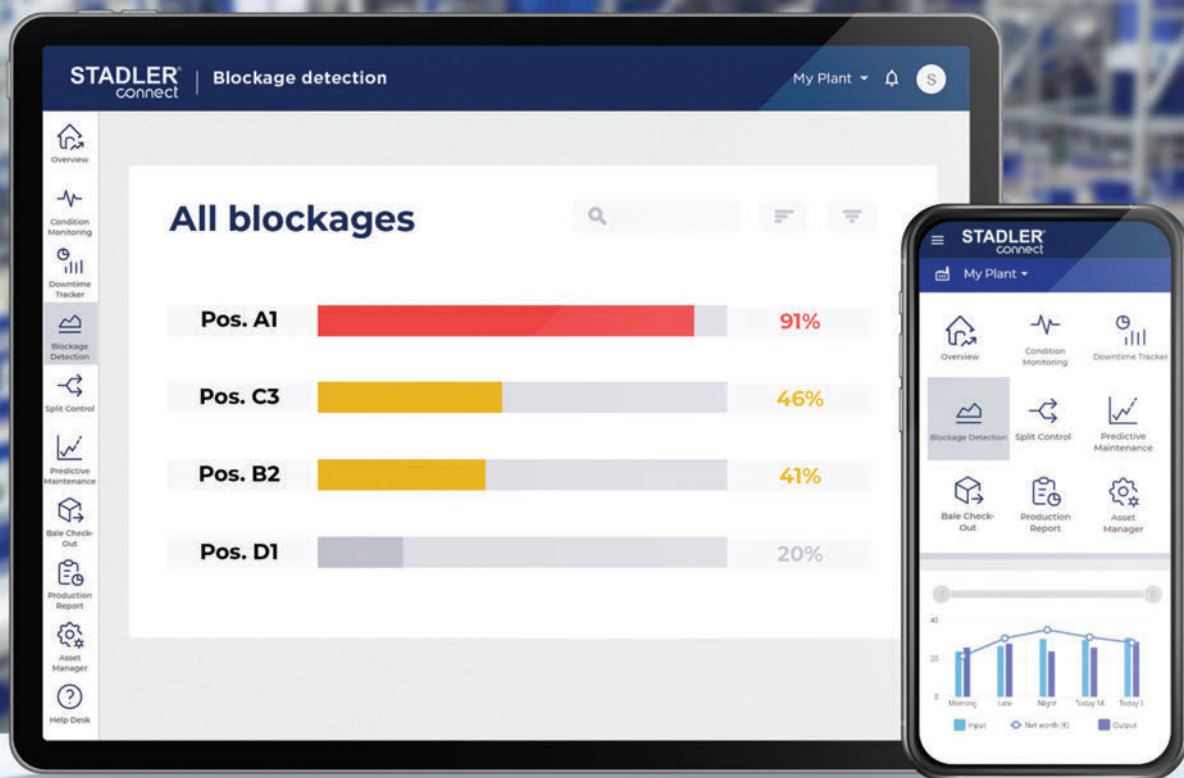
The first area is centred around machine data and includes four modules:

- Predictive Maintenance: Prevents equipment breakdown
- Blockage Detection: Automatically alerts operators as blockages occur
- Downtime Tracker: Identifies and analyses plant downtimes
- Support Portal: Facilitates communication with after-sales service

The second area is focused on material data and encompasses:

- Material Split Control: Equally distributes material flows to improve performance
- Production Report: Visualizes production data, and in particular material output
- BaleCheckIn: Analyzes material infeed at the bale-specific level
- BaleCheckOut: Analyzes material output at the bale-specific level

"STADLERconnect's digital tools leverage AI and intelligent processing of material and machine data to optimize plant performance across key areas," says Dr. Xiaozheng Chen, Material Analysis & AI Specialist at STADLER. "The modules work together to create a seamless flow of information, enhancing plant reliability and supporting operators at every stage—from tracking material quality in real time to automatically controlling processing steps and predicting maintenance needs—all designed to deliver maximum value to our customers."



By automating various parts of the plant, STADLERconnect improves operational performance while reducing the workload for operators. STADLER's material analysis tools increase transparency on both quantity and quality. This enables consistent product quality while reducing the need for costly manual quality checks.

Additionally, the company's digital maintenance solutions make service events more predictable and enable rapid responses to unforeseen issues, minimising downtime.

"Through STADLERconnect we provide a unified platform that integrates data from multiple plants and data sources, offering the plant management a centralised, remote overview of all facilities," explains Julia Stadler. "Our data-driven insights help improve key performance indicators (KPIs), for example by identifying and addressing frequent downtime causes or by avoiding blockages that lead to plant stoppages."

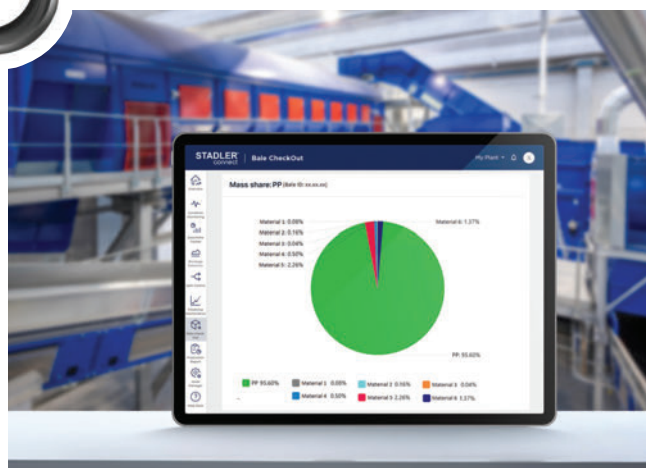
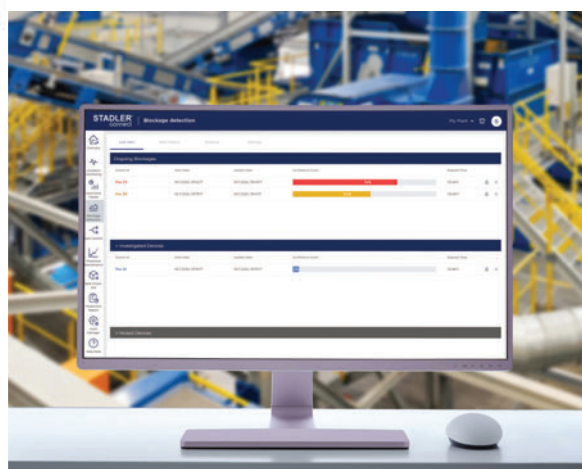
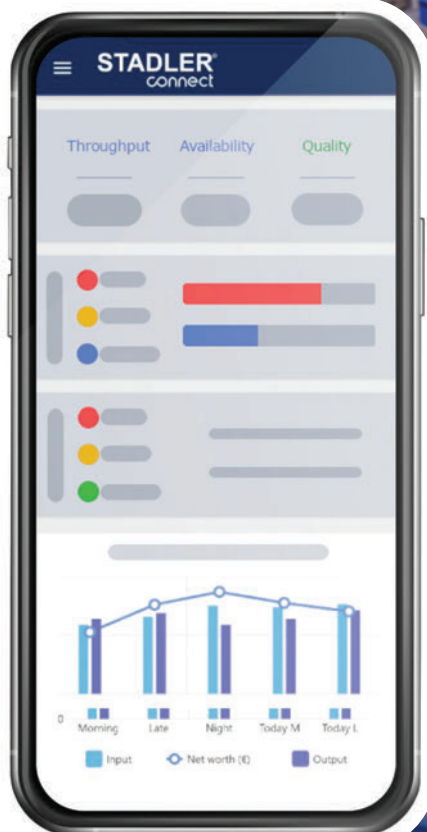
Continuous Innovation for a Smart Sorting Revolution

STADLERconnect is designed to adapt to the evolving needs of recyclers, with regular updates, and feature and security enhancements to all modules provided at no additional cost to customers.

"The patented STADLERconnect modules have been successfully implemented in several plants. The next phase of the platform's deployment is its rollout across STADLER turnkey recycling plants worldwide. We are expanding our portfolio with new modules, such as Windshifter Automation and Infeed Decision Aid, which will be available soon. Additionally, we are not only focusing on integrating data from our own equipment: as an integrator, we are in a unique position to aggregate data from all the equipment in our plants. This will be the next significant step for STADLERconnect. Our ultimate aim is to implement a truly smart sorting plant," concludes Julia Stadler.

Take a look at the video featuring the STADLERconnect platform:

<https://www.youtube.com/watch?v=iH72TomazKI>



Working Safely with MEWPs in Winter



The winter season is quickly approaching, which means shorter days and adverse weather conditions. Rain, snow, ice, or high winds can impact the MEWP's stability, visibility, and manoeuvrability. Operators should always assess the weather and, in some cases, suspend operations until it is safe to continue. This can be a challenge when deadlines are looming and the pressure is on to get the job completed – however, all those responsible for working at height must put safety first.

If deemed safe to continue, the operator and those overseeing the task must be aware of potential changes in weather conditions throughout the day or night and, where necessary, lower the MEWP and seek shelter until it is safe to do so.

High Winds

High winds can affect the stability of the platform. Before starting any work at height, an anemometer should be used to check the current wind speed. Wind conditions should be regularly monitored throughout the day at different heights. The wind may be stronger at elevated positions compared to ground level. When the MEWP is positioned at a low level, buildings and structures can shield or funnel wind. The operator needs to be aware of any sudden changes in wind speed, meaning that the necessary actions can be taken before the environment becomes too dangerous.

Operators should check the MEWP, as some machines are not rated for outdoor use. The maximum wind speed a MEWP can safely operate in is typically 28 mph (12.5 m/s). Operators should verify this rating on the machine's data plate or by checking the operator manual.

Snow, Ice, and Low Temperatures

As temperatures begin to decline in the UK, businesses should have proper access to materials and accessories such as block

heaters, battery blankets, hydraulic tank heaters, and freeze plug heaters. This will help prevent equipment malfunctions in low temperatures.

Always allow for the MEWP to warm up properly before use. In cold conditions, MEWPs may experience battery drain or sluggish hydraulics if the machine has not warmed up. All moving parts should be checked to make sure they are functioning correctly before using the MEWP.

The ground conditions should be inspected for snow or ice. Slippery surfaces are one of the most common causes of MEWP accidents in winter. Clear snow and ice from the work area to prevent the machine from losing stability. Keep in mind that temperatures throughout the day can change, so operators will need to monitor this.

Personal protective equipment (PPE), such as insulated boots or jackets, can count towards the total capacity of the MEWP. Operators should remember to check the operator manual for the maximum load capacity, because if they exceed this limit, the equipment's functions will be disabled.

Additional Safety Tips

Winter weather conditions will reduce the visibility for MEWP operators. MEWPs should be equipped with adequate lighting, and operators should wear high-visibility clothing at all times to ensure they are visible on-site.

Certora offers a range of working at height training courses to ensure that those working at height or required to operate work at height equipment are fully prepared and remain safe throughout the year.

If you need further support or guidance around working at height safety, contact Certora's team, who will be more than happy to advise – 01246 386900.



CELEBRATING

80

YEARS OF
INNOVATION

THE INDUSTRY'S HARDEST WORKING BELT CLEANERS



Martin's broad variety of both primary and secondary conveyor belt cleaners are the industry leaders in minimizing costly carryback and related issues.

SQC2S™ is our most efficient and versatile platform of secondary belt cleaners and offers five unique blade cartridge options. Each configuration features a compact design allowing for simple blade replacement and installation.

Martin stands ready to provide you with factory-direct sales and services—including expert assistance on all of your belt cleaning problems and concerns.

 ***martin***[®]
engineering

Mick George invests in a new state-of-the-art wash plant from CDE supplied by strategic partner - Molson Washing

It is over 40 years since the Mick George Group started trading with just a single tipper lorry.

Fast forward those 40 years and the name is synonymous with a wide range of construction-based services across the region.

Now operating over 600 HGV vehicles from over 40 separate sites, employing in excess of 1,000 local people, gives an indication of the scale to which the business has evolved over the years and explains why they have grown to become one of the leading suppliers to the construction industry in the heart of East Anglia and East Midlands.

From their humble beginnings with a single truck the group has expanded massively to include specialist bulk excavation and earthmoving services, demolition and environmental management, a wide range of skip hire and waste management services and aggregate and concrete supply.

With expansion into these sectors also came geographical expansion allowing services to be delivered across a wider area, yet still with a local feel. Such expansion has brought the company into operating landfill sites, waste transfer stations and quarries all aimed at offering bespoke, cost-effective solutions to commercial, trade and residential customers.

One of the largest sectors the company works in is the supply of aggregates supplied from both their own quarries and also recycled from material recovered from skip and tipper waste.

As the Group have done ever since they started, quality is the name of the game, and this is mirrored in the supply of aggregates. The company's Mayton Wood quarry near Norwich produces a range of sand and gravel products sold both to a variety of external customers and also used within the company's own concrete batching plants.





To effectively clean and process the excavated material Mick George has invested in a new state-of-the-art wash plant from CDE which was supplied through CDE strategic partner, Molson Washing.

"We required a plant that would not only give us the capacity to wash a large volume of material on an hourly basis, but we also wanted it to be reliable, easy to work with and environmentally friendly too." Mark Shackcloth, Site Manager for Mayton Wood commented.

There are several manufacturers offering bespoke washing plant solutions to the UK market and following detailed discussions with many of the leading brands, the Mick George team sat down with Molson Washing, part of the Molson Group, to discuss their options. "We liked what Molson put across to us. Their proposal was very detailed and thorough, it put us at ease knowing they were exactly on our train of thought when it came to meeting our requirements." Mark commented.



With a deal agreed, the installation team from Molson Washing visited the site to lay out the position of the plant

and to ensure services were installed correctly prior to Mick George installing the hard standing for the plant. "Having that level of service prior to the plant's delivery was great." Mark explained. "The installation team were always on hand to answer any questions we had during this period."

With the pads and services installed the plant could be delivered and installed. With its modular design centred around the CDE AggMax 160 scrubbing and classification plant. Designed and manufactured in Northern Ireland, the AggMax system has been designed and built to withstand years of punishing aggregate processing.

Incoming material is fed into the 13m³ hopper over a set of grizzly bars which then uses a heavy-duty Toughflex conveyor to steadily send the material out into the plant. Part way up the conveyor is an overband magnet to pull any metals out of the material to reduce potential damages and blockages further into the system. The free-flowing material is then deposited into the AggMax 163SR with an Infinity H2-60 pre-screen, where it enters the washing process. The unit is lined with TEMA Isenmann polyurethane screening media to increase the lifespan and reduce maintenance of the unit.



Material then passes into the RX160 RotoMax log washer. Another heavy-duty unit, the RotoMax uses twin-shaft design to clean the material passing through. Retention of the material can be easily controlled through the rotation speed of the shafts ensuring material is processed correctly. The unique spiral alignment of the paddles has been designed to reduce the shock of intermitting loads on the gearbox and bearings and ultimately prolong component life and reduce downtime. The outgoing material is then passed into a second, similarly sized Infinity sizing screen with any waste material picked up on an Infinity D1-43 trash screen.

With the aggregates leaving the plant via three conveyors, water containing sand is then passed through an EvoWash system with de-watering screen. Again, this unit is lined with polyurethane panels to reduce wear and produces both a fine and coarse grade of sand via two more conveyors.

One of the prerequisites for the plant was its ability to be environmentally friendly. "We were very surprised to find out that we only needed a 103kW power supply for the entire plant." Mark commented. "The low power consumption and added benefit of low water requirements has meant the plant is very efficient to run."

Another massive plus point is the level of detail in the build of each unit within the plant. "Anything where water and sand are mixing together will create wear, but we have been very pleased with the protection put into the plant and the heavy-duty components used as standard." Mark commented. "As it stands, we are expecting the plant to surpass others we have in the fleet in terms of maintenance costs and wear and tear breakdowns."

McLanahan and Goonvean Aggregates celebrate successful partnership with open day

Moy, Northern Ireland, 20 November 2024 - McLanahan Corporation held their first Open Day in the United Kingdom in collaboration with Goonvean Aggregates at their Melbur Quarry in Cornwall on 10 October 2024. With over 60 attendees, the day showcased the hard work and innovation both companies have put into the site, highlighting the impressive results achieved through the implementation of McLanahan's state-of-the-art complete aggregate processing system.

Visitors were treated to an in-depth tour of Goonvean's granite-based secondary aggregate processing operation, where they were able to see firsthand the incredible transformation Goonvean has undergone following the installation of the McLanahan wash plant. Throughout the day, educational sessions on key topics such as construction and demolition (C&D) recycling and tailings and water management gave attendees a comprehensive understanding of how the McLanahan equipment can contribute to them achieving their sustainability and operational excellence goals.



One of the highlights of the event was the Q&A session with Goonvean's General Manager Matt Penny and Quarry Manager Darren Lightfoot. They shared with attendees the challenges they faced and the improvements they have been able to achieve with McLanahan's support. Penny's passion for the business, particularly the drive towards sustainability and zero waste, was evident as he described how the UltraWASH Modular Wash Plant, UltraSAND Plant, and EcoCycle High-Rate

Thickener have allowed Goonvean to completely eliminate waste from their production process.

Darren Lightfoot described in detail how the McLanahan system can be started and run by one team member, allowing them to free up resources elsewhere in the quarry. Another benefit that Darren mentioned was that as well as the ease-of-operating of the system, it will also run without requiring downtime on a daily basis. From their perspective they've had little to no downtime with the system at all since installation.



Goonvean's dedication to environmental sustainability was a key driver behind the partnership with McLanahan, and the manufacturing company are proud to have played a pivotal role in helping them achieve their 'zero to tip' goal. McLanahan's equipment not only improves efficiency and productivity at the site but also aligns with Goonvean's mission to reduce carbon emissions and operate as sustainably as possible. By recovering valuable sand and aggregate materials from what would have otherwise been waste, the team at Goonvean has been able to maximise resources, boost profitability, and contribute to a greener future for the industry.

The success of the Open Day also highlighted the strength of the relationship between McLanahan and Goonvean. From the initial design of the wash plant to ongoing feedback and support, collaboration between the two companies has enabled Goonvean to tailor their equipment to meet the specific needs of their quarry. As Matt Penny shared, "The support from McLanahan has been excellent and allowed us to push forward with our strategic goals as a business."

David Hunter, McLanahan's Aggregate Systems Business Line Director, was also on-hand to provide attendees with invaluable insights into the technical capabilities of McLanahan's equipment and how they've helped transform Goonvean's operations. His decades of expertise, along with McLanahan's 189-year legacy of engineering excellence, were central to the day's educational sessions and a source of great value to those in attendance.

Donal McNicholl, Director of Sales for UK and Ireland for Aggregate Systems, gave an engaging presentation on the unique selling points of McLanahan's wide range of wet processing equipment and plants. He gave specific insight into how the company's systems are the most effective in the C&D

recycling industry and how McLanahan works with end users to understand their unique applications when design a plant.

Executive Vice President of Sales and Business Development Cory Jenson gave the crowd an exclusive look at some new technology that is currently being developed for McLanahan's line of filter presses. Cory took a deep dive into the inner workings of the McLanahan filter press and explained in depth the benefits of this equipment to the end user, as well as specifically pointing out the effectiveness of the design features like the patent-pending cloth changing feature. He explained that this new feature will make it safer and more efficient when changing filter cloths and will revolutionize filter press maintenance.

The open day proved to be a true celebration of innovation, partnership, and sustainability between two leading companies. Goonvean's success with McLanahan equipment demonstrates how modern solutions can enhance productivity, sustainability, and profitability in today's aggregate industry. McLanahan is looking forward to continuing this partnership and helping Goonvean achieve even greater milestones in the future.

About Goonvean Aggregates

Goonvean Aggregates Ltd. is a privately owned, family-run aggregate supplier based in Cornwall, United Kingdom. Founded in 1931, Goonvean Aggregates serves a wide range of markets, including construction, sports, agriculture and more, with a variety of products, such as sub-bases and fills, drainage media, graded construction aggregates, mortar and plastering sands and walling stone, to name a few. The company is committed to providing quality products to the marketplace while helping other businesses make a positive contribution to improving environmental sustainability.



About McLanahan Corporation

McLanahan Corporation is a global leader in the design, manufacture and distribution of material processing equipment. With a rich history dating back to 1835, McLanahan has established a reputation for innovation, quality and customer service. The company's product line includes crushers, screens, washing equipment, and other solutions used in a variety of industries, including mining, aggregates, and recycling.



A practical measured approach to conveyor upgrades

R. Todd Swinderman, President Emeritus / Martin Engineering

When greater production is needed to meet rising demand or when lower quality raw materials require more tons to be processed per unit of output to retain the same level of production, many operators simply speed up the conveyor. Rather than increasing capacity as intended, speeding up the conveyor often results in reduced capacity, because changes in the trajectory of the discharged material can cause build up and clogging of hoppers or chutes, leading to unscheduled downtime.

More tonnage means more carryback, dust and spillage, degrading workplace safety and increasing labor costs for cleanup. Greater volume and weight could also require a more powerful drive, which may weigh more, requiring structural changes and potentially additional space, limiting access for maintenance.

As plant engineers, operators and maintenance mechanics make undocumented or unproven changes, over time, the conveyor operation and physical characteristics can morph the system. In some cases, the proper answer to the question, "Can we increase capacity on the existing conveyor?" should be "No, we need to start over."



Adjustments in belt speed and load volume should be accompanied by an in-depth assessment of the system. © 2024 Martin Engineering

Conveyor Design

Conveyor design is an iterative process. Purchasing a conveyor at the lowest capital cost, the design is likely to use the maximum loading capacity on the narrowest belt traveling at the maximum speed for the raw material, while meeting only the minimum safety standards and codes.

When sold on lowest price, the OEM's goal is to win the low bid and make it through the warranty period without costly rectifications. If the goal was to design a conveyor with the lowest cost of ownership over its intended life, it was likely designed with less than maximum loading, a slightly wider belt and the capacity to run at a reasonable speed, while exceeding minimum safety standards and code requirements. The best practice is to re-establish the original design intent and compare it to the existing conveyor.

Conveyor technology changes over time, particularly in belting and calculation methods. The most recent Conveyor

Equipment Manufacturers Association (CEMA) design guide Belt Conveyors for Bulk Solids 7th edition requires predicting power requirements within -0 to +10% of actual. [1] Much research and development for conveyor power requirements has taken place, resulting in several low-cost design software options. [Fig. 1]

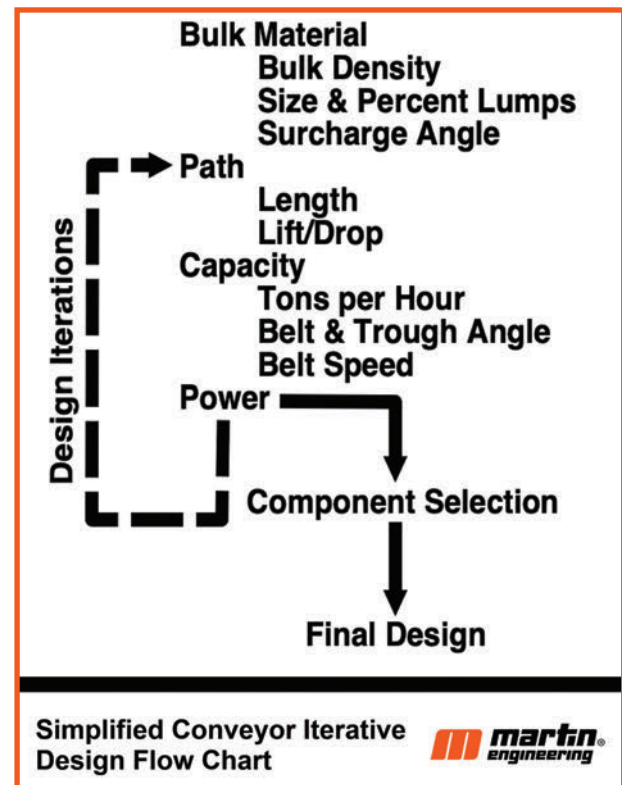


Figure 1 - Simplified Conveyor Iterative Design Flow Chart
This graphic might show the iterative design intent more clearly
© 2024 Martin Engineering

Upgrade Design

First, define the problem the conveyor upgrade plan is trying to solve. It may seem obvious, but a lack of understanding for the primary reason(s) for an upgrade could cause specifiers to address symptoms rather than root causes. The new design might not address the primary need for a performance upgrade.

For example, if the chutes are plugging or there is spillage, then it might not be a conveyor issue, but instead an operator or maintenance issue. If the problem is belt damage, mistracking or tripping the breakers, it may be due to misalignment of the structure and idlers. Surge loading the conveyor in an attempt to catch up for lost time spent cleaning could result in more spillage.

Component Standardization

It is usually desirable to try to use belting, idlers and other components that are available elsewhere at the site or are common supplier stock items. This may not always be possible, but the capital cost alone should not force a less than optimum design solution. Because increased tonnage might escalate idler loads, rolling components may require a higher

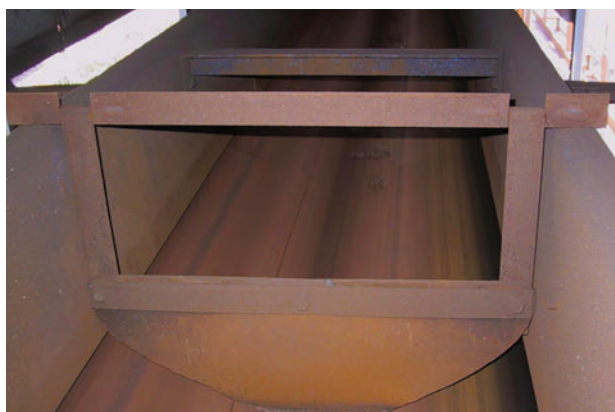
load capacity to obtain an acceptable life. Consider the life cycle costs of your design and component selections.

Loading and Transition

One of the ways OEMs save money on installation but is one of the biggest contributors to belt damage and the release of fugitive materials is loading the conveyor before the belt is fully troughed, called "loading on the transition."

Loading on the transition best practices:

- If space permits, rectify the loading so it starts at the second fully troughed idler.
- Vertical curves, if properly designed, are not an issue, but the design calculations need to be verified if the belting or tonnage changes.
- Using bend pulleys for convex curves rather than a spaced array of troughing idlers should be avoided, because it is often a source of spillage.
- Diverter plows and other devices, which tend to force the belt to one side or the other, should be located where the belt has enough distance for returning to running centered in the idlers.
- When loading round particles or operating in wet environments, a belt incline of 5 degrees or less will help create a mass that prevents rolling or fluid cargo from flowing backward toward the tail pulley. The best practice is to load horizontally and then transition into the slope.
- For round shaped material, consider installing curtains along the slope to knock down bouncing particles and allow them to form into a stable profile.



Curtains can control the bouncing or rollback of round particles.

© 2024 Martin Engineering

Belt Width and Trough Angle

The trough angle is initially selected based on experience or the existing idlers for standardization. Belt width is selected by calculating the cross-sectional area of the bulk material by assuming a troughing angle, an idler with 3 equal roll lengths and the surcharge angle, lump size and flowability of the bulk solid being handled. There are two important cross-sectional areas to consider, CEMA 100% full and full edge-to-edge. The 100% full area is based on a standard belt edge required to prevent spillover between idlers as the belt sags on the carrying run. The full edge-to-edge loading is used to calculate the maximum potential load on the structure. The best practice is to select the belt width based on 85% of the CEMA 100% cross-sectional area to allow for surge loads, off-center loading or normal mistracking. [Fig.2]

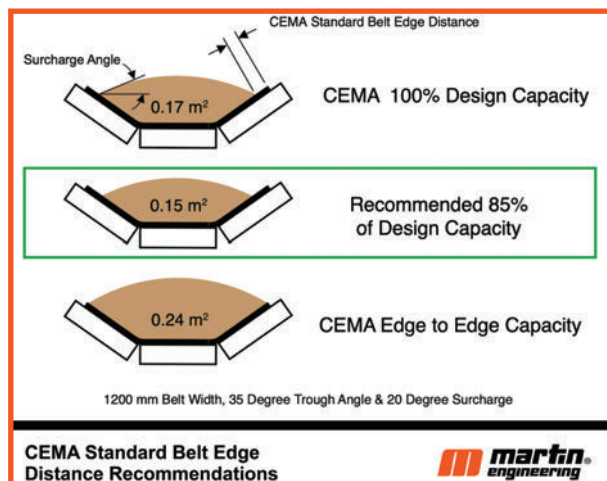


Figure 2 – CEMA Standard Belt Edge Distance Recommendations

© 2024 Martin Engineering

Two common techniques can be incorporated into a new or complete conveyor design to make future upgrades less costly. The first technique is changing the trough angle of the idlers to raise the capacity by increasing the cross-sectional area. In new designs, consider using 20-degree idlers. Upgrading to 35-degree idlers is a 27% increase in cross sectional area, and going from 20- to a 45-degree trough angle is a 37% increase. Although 35-degree idlers are fairly standard, it is important to note that for retrofit upgrades, going from 35 to 45-degree idlers is only an 8% cross-sectional area increase. [Fig. 3]

Trough Angle 3- Equal Roll Idler	CEMA 100% Cross-Sectional Area (m3)	Increase in Cross-sectional Area from Flat Belt	Increase in Cross-sectional Area from 20° Trough Angle	Increase in Cross-sectional Area from 35° Trough Angle
Flat Belt	0.064			
20°	0.132	106%		
35°	0.168	163%	27%	
45°	0.181	183%	37%	8%

Capacity increase by changing idler trough angle
1200 mm wide belt and 20 degree surcharge angle

martin
engineering

Figure 3 - Comparison of capacity increase by changing idler trough angle © 2024 Martin Engineering

(1200 mm wide belt and 20° surcharge angle)

The second common technique for new construction is to design the structure for the next wider belt width and use CEMA wide-base idlers. The mounting dimensions of the wide-base idlers allow for a future replacement with a wider belt. For example, if the structure for the 1200 mm (48 in.) wide belt and 20-degree surcharge angle using 35-degree trough idlers was designed for wide base idlers, the belt width could be increased to 1400 mm (55 in.), resulting in a 33% capacity increase with the same trough angle and belt speed. Changing from a 35 to 45-degree trough angle and the wider belt and idlers would result in a 90% increase in cross-sectional area. This method is not often used, because there is resistance to increasing capital cost for a wider and higher load-bearing structure, higher material mass and larger drive. However, it is an excellent approach if there is an expectation of increasing capacity in the future.

Belt Speed

CEMA provides some guidance on belt speeds for different classes of material in chapter 4 of Belt Conveyors for Bulk Materials 7th Edition. Generally, a wider belt operating at a

lower speed will reduce fugitive material release, since the potential for fugitive material release is directly proportional to belt speed and capacity. The lower CEMA recommended belt speeds should be used in the first iteration of the design. Then additional iterations can be tried by changing the belt width, trough angle and belt speed to arrive at a reasonable solution.

Discharge Chute

For a capacity increase, the discharge chute will need close review. The trajectory path should be plotted so that the stream of material impacting the chute does not create a situation where there is zero or negative vertical velocity on impact with the chute. If the material can stay suspended at the impact location, it will increase the chance of buildup and blockage of the chute. If the angle or liner is changed, it must not create a slow flow situation where material backs up and accumulates in the chute. The discharge chute cross sectional area should be a minimum of 4 times the cross-sectional area of the loose bulk solid.



Raising belt speeds and volumes have consequences for transfer chutes and cleanup. © 2024 Martin Engineering

Receiving Chute

The design of the loading chute and skirtboards requires close attention to detail to minimize fugitive material release. CEMA uses 2/3 of the belt width for the inside dimension of the loading chute skirtboards, regardless of belt width. Idle fouling and spillage can happen when uneven loading causes the belt to drift to such a degree that there is an opening between the inside of the chute wall and the edge of the belt where material can escape. Best practice in design considers the amount of allowable mistracking plus the thickness of the sealing system to determine the distance from the edge of the belt to the outside of the skirtboards as the minimum dimension on each side. [Fig. 4]

Maintenance Access

If you upgrade your capacity but can't access it for maintenance or cleaning, what have you accomplished? This detail is often overlooked. Any upgrade plan should include work platforms and upgraded access. Make sure all the old piping conduits and unnecessary structures are removed. Evaluate guarding and lighting to make inspections easier and more accurate. Provide the necessary power, compressed air or vacuum utilities needed for maintenance or cleaning.

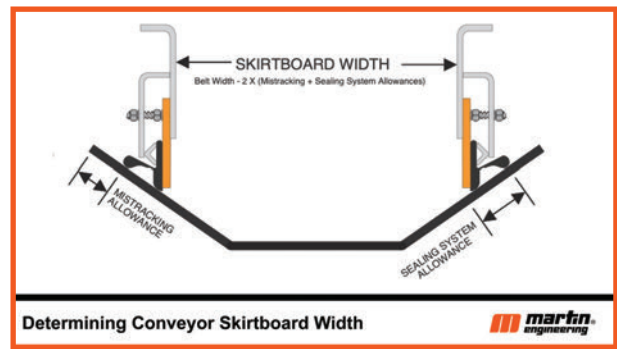


Figure 4 - Mistracking Allowance + Sealing System Allowance x 2 = Skirtboard Width © 2024 Martin Engineering



Having safe and available access to components is part of design best practices. © 2024 Martin Engineering

Conclusion

There can be a large benefit to upgrading when the entire system design is considered. There should be an expectation of increased productivity. Additional benefits should include reduced fugitive material release by improved passive dust control and belt cleaning, saving on maintenance time due to improved access and a reduction in safety incidents due to reduced cleanup and maintenance-friendly changes.[2]

References

- [1] Belt Conveyors for Bulk Solids, 7th edition, Conveyor Equipment Manufacturers Association, 2014
- [2] Foundations for Conveyor Safety, Martin Engineering, 2010, chapters 31-34, 2016

Maximising event opportunities amid economic shifts: What the recent UK Budget means for the 2025 calendar



The recent Labour budget statement introduces policy shifts that businesses may need to factor into their 2025 event and exhibition strategies. From economic adjustments to reformed corporate taxation and new incentives for skills development, there are fresh considerations for making event

budgets go further and work harder. Yet, as the landscape evolves, so do the opportunities to keep events vibrant, impactful, and in tune with changing market needs.

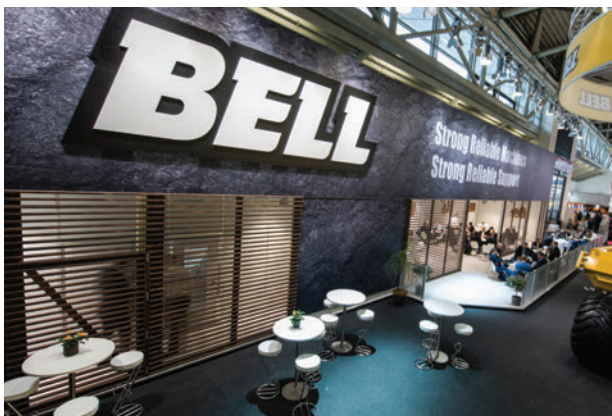
Key Budget Impacts on Event Planning



Cost Management in Light of Corporate Tax Changes

Labour's tax adjustments could mean refined budgets for some companies, making ROI and ROO even more essential. Exhibitions that demonstrate clear, measurable returns and directly align with business goals will be priorities. But this is an exciting challenge, events and exhibitions spaces that stand out and show real value will naturally rise to the top.

Supporting Talent and Skills Development at Events



With the budget's emphasis on workforce and skills, businesses can reframe events as hubs of learning. Beyond lead generation, companies may see strong benefits in offering sessions that enhance skills, showcase expertise, and engage both attendees and employees in growth opportunities. By aligning with this focus on skill development, companies can

amplify their event budgets while investing in their teams. We often chat about who are the best individuals to run event spaces, education now becomes part of that conversation.

Making the Most of Event Opportunities

Even as budgets may be reevaluated, businesses can still create memorable and high impact events. A few strategic shifts make it possible to stand out and connect effectively:

Prioritising Direct Engagement Over Scale

Investing in smarter, more interactive stands with direct engagement activities can yield deeper connections without extensive costs. Streamlined displays and spaces for conversation allow for meaningful interactions, ensuring each attendee connection has a lasting impact. This is a moment to focus on quality of engagement over sheer size or number of products displayed.



Leveraging Partnerships and Collaborations

Partnerships, whether with other brands, associations, or organisers offer greater reach and shared costs. Through co-hosted presentations or shared event spaces, companies can expand their exposure while optimising their investment.

Embracing Digital Elements

Digital engagement is a powerful tool for enhancing reach and capturing data without overspending. From event apps to QR codes for follow up, digital elements create touchpoints that build on in person engagement and extend an event's impact well beyond the days you are physically at the show.

Final thoughts...

The recent budget may ask us to adapt, but that's where innovation begins. By focusing on strategic engagement, collaboration, and targeted planning, businesses can harness these changes to elevate their events. These economic shifts may refine our approach, yet they are also a chance to innovate, connect, and make events more purpose driven than ever. For those ready to embrace adaptable, purposeful planning, the events of 2025 will offer meaningful opportunities and lasting value. We have already started these conversations with our existing clients, and we would be happy to chat to you too.

Telestack installed a new Titan W800 Truck Unloader for Dry Bulk Storage and Transhipment

Telestack, in collaboration with their long-term partner Van der Spek Vianen (VDS), has successfully installed and commissioned a brand-new, 70-tonne Mobile Titan W800 truck unloader at Lansers Trio in the Netherlands.

The Titan W800 is a versatile, wheel-mounted mobile truck unloader designed to facilitate direct unloading from trucks. It features a robust heavy duty apron chain feeder that allows 50-tonne road dump trucks and wheel loaders to unload material directly into the rear of the unit.

The Titan series of truck unloaders are ideal for eliminating the need for double handling of materials, ensuring a seamless and efficient 'direct' discharge from the truck. Prior to the installation of the Telestack W800 at Lanser Trio, the operator was required to dump materials onto the ground and then handle them again using wheel loaders, which significantly increased their costs per tonne and led to material degradation due to fuel spillage. The new system streamlines the unloading process, reduces operational costs, and preserves the quality of the materials.

The Telestack Titan W800 wheel-mobile was meticulously designed through a collaborative effort involving Lansers Trio (the customer), VDS (the Telestack dealer), and Telestack Ltd. This close partnership ensured that the Titan W800 would fully

meet the customer's diverse application requirements. The project exemplifies how Telestack and VDS, leveraging their custom design capabilities, push the boundaries of innovation to satisfy the demands of even the most challenging applications.

Features of the Telestack Titan W800 Truck Unloader

The W800 is a versatile piece of equipment specifically designed as a wheel-mounted Truck Unloader, featuring an integrated tow hitch for easy mobility across the site. This design element is crucial, as it allows the truck unloader to be easily repositioned as needed, enhancing its multi-functional capabilities. The W800 can be effectively used for various tasks such as reclaiming materials, feeding auxiliary equipment, and supplying material to Shiploaders. This flexibility makes it an essential component in streamlining site operations.

The W800 truck unloader for Lanser Trio was engineered to handle a diverse range of materials, including cokes, coal, and slag. The Truck Unloader is capable of efficiently managing materials with varying properties, ensuring seamless operation when unloading from 50-tonne trucks. It is designed to process between 600/ 700 TPH meeting the demanding requirements of the operation.





This is an all-electric driven unit as requested by Lanser Trio for higher efficiency and lower global footprint. It features a 'plug and play' system that seamlessly integrates onsite solar power with the main electrical grid, allowing for optimal use of renewable energy. Key electrical features include a blocked chute switch on feeder discharge point, radio remote control for all features on the truck unloader, LED lights and stainless-steel control panel engineered for durability in demanding

environments. This is all enclosed with an IP 66 high grade control panel which is essential for protecting the control panel from dust and moisture infiltration, ensuring reliable operation even in harsh conditions.

The W800 is equipped with a variable speed drive, allowing for precise control of belt speed to efficiently handle a variety of materials. To further enhance its performance, the unit has been upgraded with dust suppression covers, significantly reducing airborne dust during operation. Additionally, this mobile truck unloader can be optionally fitted with a radial trimming Telechute. This attachment is specifically designed for managing other types of dusty materials and facilitates direct loading onto barges and coastal vessels, making the W800 a versatile solution for a range of material handling needs.

A large ramp was fitted with the W800 by Telestack to provide easy access for the dump trucks to reverse to the rear of the unit. This setup is crucial for optimizing the loading process, ensuring that tonnage rates are maximised and that the operator can meet the capacity goals efficiently. This benefits both the operator and the customers by maintaining optimal productivity. >



A fundamental aspect of the Telestack ethos is that each unit is fully constructed and operational before it is dispatched. This process involves a comprehensive factory acceptance visit with the customer and operators. During this visit, we ensure that all parties are satisfied and that the scope of supply is clearly defined. Additional testing is conducted, and any necessary training is provided to the operators. This thorough preparation is crucial for a smooth installation and commissioning process, which in turn allows for quick and easy setup times on site. The assembly and commissioning of this unit for Lanser Trio was done by the highly efficient technical service at VDS.

Lanser Trio is a leading expert in the storage, transfer, screening, and processing of dry bulk materials. Whether handling coal, ores, waste streams, or recyclable products, they provide tailored solutions for every application, utilising the



most suitable machinery and skilled personnel. The recent addition of the Telestack Titan W800 truck-unloader to their extensive equipment fleet, in collaboration with VDS, further enhances their capability to meet the diverse needs of their clients efficiently.

Telestack are renowned throughout the globe for their personalised service. The team of engineering and sales specialists work very closely with you throughout each stage of the process from pre-sales and pre-engineering to ensure that the equipment is specific to your project. Our product portfolio is vast as is our application knowledge. Our experienced sales personnel will happily discuss your project with you, and we have a range of global reference sites in multiple applications to tell you about. Call us on +44 2882 251100 or email sales@telestack.com for a preliminary consultation about your project.

SCREENING MEDIA

BRIMONN – THE RECYCLING AND QUARRY SCREEN SPECIALISTS

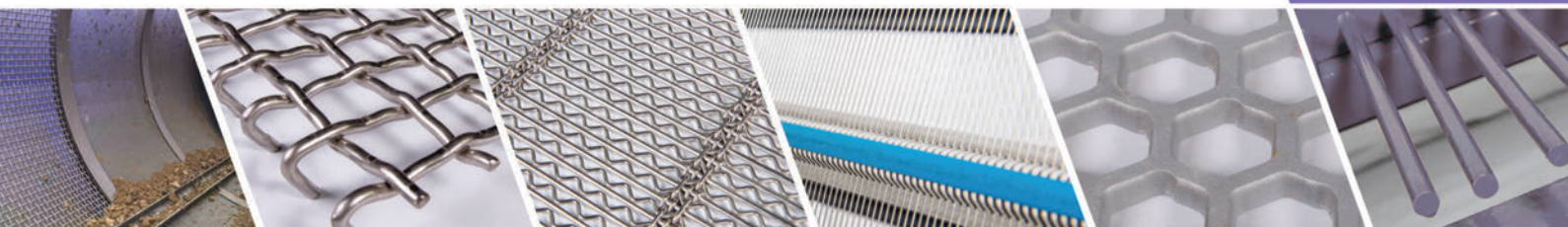
ONE COMPANY, ONE CALL, FOR ALL YOUR QUARRYING, SCREENING AND RECYCLING APPLICATIONS

Wire

Perf Plate

Rubber

Polyurethane



Call us today on **01902 632 505**

T 01902 632 505 F 01902 631 730 E sales@brimonn.co.uk

brimonn.co.uk

brimonn
QUARRY SCREENS & RECYCLING



CLIFTON RUBBER
MADE IN BRITAIN

**MRF SCREENING STARS & DISCS * CONVEYOR ROLLERS
WOOD & COMPOST STARS * TROMMEL WHEELS
FLIP FLOW SCREEN * CONVEYOR IDLER DISCS**

**UK MANUFACTURER
OF RUBBER &
POLYURETHANE
WEAR PARTS**

T: 01480 496161

E: SALES@CLIFTONRUBBER.COM

WWW.CLIFTONRUBBER.COM




SCAN ME



Valley Spring is a member of the Springmaster® Group

**SPECIALIST PRODUCER OF MEDIUM AND LARGE
DIAMETER COMPRESSION, EXPANSION
AND TORSION SPRINGS.**



Pottery Lane East, Chesterfield, Derbyshire S41 9BH
Tel: +44 (0)1246 451981 Fax: +44 (0)1246 454327
E-mail: sales@valleyspring.com www: http://www.valleyspring.com

Next Issue



January | February 2025

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

RECYCLING - Open topics for this issue

BULK HANDLING - Open topics for this issue

Editorial copy deadline – 16th January 2025

Advert copy deadline – 23rd January 2025

Advertisers Index

BLUE	21
BRIMONN	54
CERTORA	42
CLIFTON RUBBER	55
CRJ	Front Cover
EDGE	11
ERIEZ	38
HARPSCREEN	10
KIVERCO	17
MACHTECH	18
MARTIN ENG	43
MCLANAHAN	6
MOLSON	Back Cover
RK6	27
ROKBAK	Inside Front Cover
SAWARD	51
SBM	31
SPRINGMASTERS	55
TANA	29
TELESTACK	34
TEREX ECOTEC	24
WELDING ALLOYS	31

More than just a machine.



We have invested in our business to support yours.

From partnering with only the best manufacturers to 16 strategically positioned service centres that hold all the parts you need, and a network of over 90 fully equipped field service engineers, you can count on us to keep your operation going wherever you are in the UK.

molsongroup.co.uk

|||| MOLSON ||||