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Upgraded Terex Trucks TA300 offers 5% fuel efficiency improvement

The TA300 articulated hauler from Terex Trucks has been updated with a new transmission, leading to improvements in fuel efficiency, performance, productivity and operator comfort.

Terex Trucks has updated its TA300 articulated hauler with the introduction of a new and improved transmission. The 28-tonne (30-ton) workhorse will now incorporate the latest EP320 transmission from ZF as standard. This results in a 5% improvement in fuel efficiency, as well as enhanced performance and productivity, when compared to the previous model working in the same application. The new transmission comes with eight forward gears as well as four reverse gears, higher overall gear ratio spread, equal ratio steps between gears and optimized gear shifting with partial load shifts. All of this helps to ensure smoother gear shifting and thereby higher levels of operator comfort. The TA300 is also equipped with true independent front suspension as standard, further enhancing operator comfort and enabling excellent traction control and maximum productivity in the most challenging of conditions.

In addition to this, the hauler's maximum speed has increased to 55 km/h (34 mph), up from 50 km/h (31 mph). As a result, customers can achieve faster cycle times and lower cost per tonne. Other operational features include automatic shifting with manual over-ride, a hydraulic integral retarder and a hydraulic power-shift longitudinal differential lock. Together, these help to ensure safe and productive operation, as well as reduced fuel and diesel exhaust fluid (DEF) consumption on job sites. The TA300 also now comes with long life transmission fluid, increasing the length of time between oil maintenance intervals from 1,000 to 4,000 hours. The updated TA300 will initially be available from August in the higher regulated emissions markets of Europe and North America.

Tried and tested

"Introducing the new transmission to the TA300 articulated hauler continues Terex Trucks' commitment to install product performance and productivity improvements that lead to lower



operational costs for our customers," says Scott Pollock, Product Manager at Terex Trucks. "Developing and testing the new EP320 transmission for the TA300 was a collaborative effort between Terex Trucks and ZF. The new transmission has been calibrated specifically for the TA300 and rigorously tested for two years internally and by operators on real job sites, working in a variety of conditions. Operators have had nothing but praise for the upgraded machine. Among some of the most commonly cited benefits are the improved fuel efficiency and performance, as well as the smoother gear shift quality."

Proven performer

The TA300 is a proven performer on large-scale construction projects as well as in quarries and on infrastructure developments. The hauler's fuel efficient Scania DC9 engine meets the requirements of EU Stage 4/Tier 4 Final emissions legislation without a diesel particulate filter (DPF). Together with the new fuel efficient ZF EP320 transmission, this means significantly reduced fuel consumption and operational costs. The machine has fully enclosed, oil-cooled, multi-disc brakes at all six wheels. These are supported by both the engine brake and the transmission retarder, giving the operator superb control and increasing safety and stability while providing a low cost of operation. On top of all this, the cab boasts pressurized capabilities and a high-performance HVAC system for high levels of operator comfort and productivity. Ground level test points combined with a fully tilting cab and an electronically raised hood ensure ease of service and reduced downtime.

EP320 specifications

Forward gears	8
Reverse gears	4
Maximum forward speed	55 km/h
Maximum reverse speed	14 km/h
Automatic Transmission Fluid (ATF) maintenance interval	4,000 hours
Integral transmission fluid retarder	
Hydraulic power-shift inter-axle differential lock	



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CONTROL

A JCB excavator arm, painted in its signature yellow and blue, is shown from a low angle, holding a large, tangled mass of rebar and debris. The rebar is a dense, chaotic web of thin, rusted metal rods, with several large, jagged pieces of concrete or rock embedded within it. The excavator arm is positioned vertically, with the rebar mass hanging from its bucket. The background is a dramatic sky with dark, swirling clouds and a bright sun or light source on the left, creating a strong lens flare and illuminating the scene. The overall tone is industrial and powerful.

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Something to look forward to

To be honest my expectations were quite low for the RWM show. Over the last few years it has really struggled as exhibitor after exhibitor left the show.

This year with a new organiser the RWM show was held over two days instead of the traditional three combining it with FLOOD EXPO, M&CCE EXPO, CONTAMINATION EXPO and Future Resource.

With a pre-show promise of thousands of visitors' anticipation was high and the footfall was marginally higher on the first day than the previous year. Although with only half of the hall being occupied the RWM show has a long way to go to look like its old self.

Even walking around, I noted empty stands where exhibitors had just not turned up, in particular the floor layout left a lot to be desired. In some areas it felt like you were walking down blank wall corridors and quite frankly the organisers missed a huge opportunity by not moving the handful of outside exhibitors into the back of the hall. That would have looked magnificent to see big machines inside the exhibition. Its an important element that is now sadly lacking and would be great if these OEM's with their large exhibits returned for the next edition; but please change it to a bi-annual show!

Finally, our next edition will include our MADE IN IRELAND feature which we are all working on now. It will be something worth reading as the whole team have been to talk in depth to 16 companies about their businesses in detail.

John Edwards
Editor



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DUO Group's affiliation with Sahara Force India pays dividends for Breast Cancer Care at Hillhead



With the pink Sahara Force India Formula One team car resplendent on the DUO Group stand at the recent Hillhead exhibition DUO have contributed to the three-year target set by Sahara Force India of raising £250,000 for Breast Cancer Care.

Through an exhibition stand raffle DUO raised over £1,800 in the three days of the show, which means 62 people affected by breast cancer will be able to receive specialist information and support through Breast Cancer Care's helpline at a time when they need it most.

Alex Moss – CEO, commented, "This is only the start of our drive, we aim to continue supporting the cause through our affiliation with Sahara Force India and will use every opportunity to help them reach their three-year target."

2017 was the 25th anniversary of the famous pink ribbon, the global symbol for breast cancer and was a great season for Sahara Force India and the team's partners, but success was not limited to the circuit. Off-track, the team helped its partner charity, Breast Cancer Care, raise funds that will enable it to reach the increasing number of people affected by breast cancer.

With our car sporting its now-classic pink colour, it was a match made in heaven for Sahara Force India and Breast

Cancer Care. The partnership was launched at the Monaco Grand Prix, the first race where the charity's logo graced the VJM10 cars of Sergio Perez and Esteban Ocon.

It was a statement of intent for the team, which unveiled its commitment to raise £250,000 in three years for the charity and the DUO Group are fully committed to supporting this vital cause.

About Breast Cancer Care

When you have breast cancer, everything changes. Time becomes measured in appointments. The next scan. The next results. The next challenge.

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For care, support and information from day one, call us free on 0808 800 6000 or visit breastcancercare.org.uk

Marubeni-Komatsu introduces the new WA100M-8 Wheel Loader

Efficiency – Reliability – Versatility



The new Komatsu WA100M-8 Compact Wheel Loader proposes new and improved features. It provides effortless and low-cost operations with a powerful EU Stage IV engine and the proven Komatsu Selective Catalytic Reduction (SCR) system, a new ergonomic design, a high level of standard specifications and an array of new options.

On construction sites, in the recycling industry or for agricultural jobs, with the hydraulic quick-coupler, Easy Fork kinematic and a wide range of available attachments, the Komatsu WA100M-8 is a reliable and versatile tool "The WA100M-8 is built on the strong base of the WA100M-7" says Sebastian Zienau, Product Manager at Komatsu Europe. "And with its many new features and options it opens up a whole new range of versatility. We're really looking forward to offering such a flexible machine to our customers."

Powerful, flexible and versatile

The WA100M-8 has an operating weight of 7,200 kg. Its EU Stage IV Komatsu SAA4D94LE-3 engine is also more powerful with 70 kW (94 HP) net. Optimised for tough construction applications, it delivers high torque even at low rpms. A fully automatic hydrostatic transmission sends power to all four wheels.

With high rimpull, superior breakout power, high lifting and dumping height, and enough reserves for even the most difficult ground conditions, the WA100M-8 also features low fuel consumption. The operator can rely on Easy Fork kinematic to transport loads with Komatsu pallet forks parallel to the ground without readjusting the fork tines.

The after-treatment system includes an integrated Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) system. NOx emissions are reduced by 80% using AdBlue®, protecting the operator and bystanders and making the WA100M-8 ideal for indoor applications.

For improved versatility, available options include increased travel speed (40km/h), new high flow hydraulics, a new height-adjustable trailer hitch, and new 3rd & 4th hydraulic circuits on the rear of the machine.

Reduced Operating Costs

A 6,000 hr cleaning interval typically makes the DPF maintenance-free for 10 years. Komatsu's redesigned 1.3m³ digging bucket has better penetration, a longer bucket bottom, a modified shape of the back and side walls and a new design of the spill guard. Easier to fill, it offers increased operating comfort, boosts the new wheel loader's productivity and helps to reduce fuel consumption.

KOMTRAX telematics offer top fleet management and support, protect the machine against misuse and guarantee maximum efficiency and uptime.

Comfort & Safety

For maximum operational safety, the machine's low centre of gravity enhances stability, and its compact dimensions and a new engine hood ensure exceptional all-round visibility.



The new large multifunctional high-resolution TFT-LCD widescreen colour monitor panel has 13 built-in languages. The improved, ergonomic controls include a PPC multi-function lever with optional electronic control for 3rd and 4th spool (EPC). The optional air conditioner and Electronic Controlled Suspension System (ECSS) further improve comfort and productivity.

Easy Maintenance

All maintenance and service can be performed easily and quickly thanks to the tilting cab. The optional hydraulic cab tilting pump allows the operator to perform maintenance even on the job site. The engine hood opens widely for a quick daily inspection, the electric equipment is well protected behind a maintenance cover, and the easy-to-clean radiator is conveniently accessible. A compartment for battery, main switch and relays improves maintenance access to the electrical system.

WA100M-8 New Features and benefits

- New standard bucket size 1.3m³ bucket (WA100M-7: 1.25m³) – Increased Productivity
- Higher Engine Power – Increased Productivity
- Higher travel speed (40km/h) (Option) – Increased Productivity
- 4th hydraulic circuit (Option) with Proportional Control – Increased Versatility
- 3rd and 4th hydraulic circuit (Option) at machine rear – Increased Versatility
- EU Stage IV emissions compliant with DPF – Peace of Mind
- 6000 hr DPF cleaning interval (every 10 years) – Peace of mind, low maintenance cost.
- Innovative interior design with new ergonomic controls. – Comfort & ease of operation
- New colour high-resolution TFT-LCD widescreen monitor panel with 13 built-in languages.
- High Flow (Option) – Increased Versatility
- Height adjustable Trailer Hitches (Option) – Increased Versatility



Yanmar CEE launches all-new SV60 midi-excavator



Following its global reveal at this year's INTERMAT exhibition, Yanmar Construction Equipment Europe (CEE) has announced the roll-out of its SV60 midi-excavator across the UK and Ireland. From August, the new model will be available to order through authorised dealers nationwide.

Combining sector-leading technology and future-proof innovation to deliver a 'business class' operator experience, the SV60 offers the performance of a midi-excavator with the space-saving benefits of a more compact model. Designed with a short rear overhang and minimal front turning radius, the five-tonne machine boasts a 3,565mm working envelope.

Thanks to an X-shaped undercarriage design and unique weight distribution, the SV60 delivers remarkable lifting capacities and unmatched stability. Capable of carrying one-tonne loads up to 5.10 metres (at 1.25 metres high), operators can undertake heavy-duty jobs in the tightest of spaces – perfect for urban areas.

The all-new model is powered by Yanmar's 4TNV84T-ZMBVA engine, which has been specifically designed to minimise fuel consumption and reduce operational emissions. With an impressive power output of 33.4kW at 2,200rpm, operators are assured the highest levels of power, flexibility, productivity and precision.

Additional fuel-saving features, such as Auto-Deceleration (enabling the engine to idle if operating levers aren't touched) and Eco Mode (which reduces motor speed to 300rpm) make the SV60 one of Yanmar's most eco-friendly models ever.

Andreas Hactergal, sales and marketing director at Yanmar CEE, commented: "As our next-generation flagship excavator, we're confident that the SV60 will prove popular with construction professionals across the UK and Ireland.

"Particular attention has been paid to the operator station design, to maximise space, comfort, efficiency and productivity. Alongside featuring the widest cabin of its class, electronic instrumentation, improved ergonomics, air suspension seat and a 7" LCD rear view camera as standard ensure a pleasant and fully-functional working environment.

"As with each model in the Yanmar CEE portfolio, the SV60 uses premium components to ensure maximum quality and reliability. From materials use to hose routing, intricate design aims to enhance service life and reduce downtime."

The SV60 will be available to order from dealers nationwide from August. For more information, or to find your nearest distributor, visit www.yanmarconstruction.co.uk.

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Weir Minerals announces its innovative IIoT platform Synertrex®

Weir Minerals is excited to announce the global launch of Synertrex®, its advanced IIoT technology which is set to transform the mining industry. Complementing Weir Minerals' existing portfolio of mining equipment, the Synertrex® platform is now available globally. Delivering an advanced level of understanding, it allows operators to monitor every aspect of their equipment's operation, prevent problems and increase throughput.

Ricardo Garib, Minerals Division President, said: "We believe our Synertrex platform will have a significant impact on the mining industry, transforming customer operations through improved productivity and safety. Working with technology market leaders Microsoft and Dell has enabled us to develop sophisticated predictive software and hardware which is robust enough to operate in extreme conditions across the globe."

IIoT is a network of equipment that connects to the internet and shares data which can be converted into unique insights. Demand for IIoT enabled products is growing rapidly, particularly in the mining industry where it is being used in a number of areas including analytics, machine learning, and robotics.

Synertrex® is a cutting edge IIoT platform which harnesses the latest digital technology to transform productivity, foresee risk and enhance performance. Utilising cloud computing, it involves placing smart sensors on an array of Weir Minerals' products which gather critical operating data for advanced analysis. The data is transformed into powerful insights which are relayed to the customer through a digital interface. It can identify problems before they occur, reducing downtime, and optimise equipment performance across an entire circuit.

Remote management allows for simplified maintenance. Wear and tear can be easily monitored, and trouble spots detected before they escalate into major issues. Whether it's a drive system, structural or lubrication issues, Synertrex® provides

the tools to keep mining equipment at its most profitable.

With Synertrex®, the guesswork is removed. Through the platform, customers will have detailed real-time insight into how their equipment is performing, and machines will be able to learn over time. Information is displayed on a simple, easy to understand dashboard which can be accessed via any device or integrated into existing operational systems. It will convey real-time, fact-based insights into machine performance and health, remaining useful life and other crucial indicators.

Fred Bradner, Vice President of Global Strategy, Sales and Marketing, added: "Synertrex makes the complex simple, better insight and control of equipment enables customers to make accurate, condition-based decisions. This platform will redefine field service standards and lead to greater performance, reliability and ultimately return on investment."

At this stage, the platform can be paired with Warman® pumps, Cavex® hydrocyclones, GEHO® PD pumps, Enduron® HPGR, Enduron® screens and Enduron® crushers; however, there are plans to expand the range of compatible products. Customers with existing Weir Minerals' products who wish to enable Synertrex® will be able to retrofit sensors to equipment.

John McNulty, Vice President of Global Engineering and Technology, concluded: "This technology is backed by our 147 years of experience and unrivalled service support. Our team travel to the customers' site to install the sensors, connect to the cloud and provide training to ensure they fully understand how the Synertrex platform works and what it can do. The data gathered from Synertrex combined with our in-depth product knowledge, provides unique insights on performance that only the OEM can deliver. Our extensive service network can quickly act on the outputs from Synertrex to provide unrivalled on-site support to our customers."

More information about Weir Minerals' Synertrex® platform and an overview of the portfolio of compatible products can be found at www.synertrex.weir.

Terex Trucks strengthens presence in France

There's lots happening in the French construction industry right now - and further growth is expected over the coming years. With this in mind, Terex Trucks is expanding its operations in France, reinforcing its commitment to customers and dealers throughout the region.

The TA300 delivers low total cost of ownership and high productivity.

Growth in the French construction market has been stunted in recent years due to a variety of macroeconomic factors. But now the landscape has stabilized, and forecasts are positive. CISMA – the Paris-based trade association for companies in the construction, infrastructure, steel and handling industries – predicts that 2018 will see a 3% increase in the construction and maintenance of French roads, as well as a 3.5% increase in the country's aggregates production. According to The European Commission, the French construction sector as a whole will grow by 2.9% in 2019.

These figures undoubtedly reflect the large-scale infrastructure projects that are due to commence over the next few years. Europe's biggest construction project for public transportation, The Grand Paris Express, is already underway in France. A total of 200km of new metro lines will be built between now and 2030, the majority of which will be underground. And 68 new stations are also being built, which will be interconnected with existing transport networks. EuropaCity is another enormous project, which has an estimated price tag of around €3 billion. Located north of Paris and spanning 80 hectares, the development will house numerous amusement parks, a waterpark,

Paul Douglas,
Managing
Director of Terex
Trucks.



"With so many big projects in the pipeline, France is a key market for Terex Trucks," says Paul Douglas, Managing Director of Terex Trucks. "Historically, France has been one of the industry's strongest articulated hauler markets, with around 300 machines sold in a good year. However, due to the geopolitical climate, volumes have dropped over the last couple of years to about 140 units. But now we are starting to see the demand for articulated haulers pick up again, with a total of 60 machines (across all brands) sold in France in the first quarter."

French expansion

This year, Terex Trucks is focusing on its strategy for expansion throughout France. Demonstrating its keenness to gain a bigger share of the French articulated hauler market, Terex Trucks has recently signed three new dealers in the country: Promatex International, Framateq Sud-Est and Manu-Lorraine. Covering the north and north east, as well as the south of the country, these new partnerships represent a new chapter in Terex Trucks' strategy. "We've identified the key territories we want to cover, and we're thrilled to add three reputable French dealers to our growing network," says Paul. "We are currently expanding our operations in France and plan to sign more dealers in the near future."

The TA400 is the biggest articulated hauler in the Terex Trucks range.



Proven performers

Terex Trucks offers two articulated haulers in France: the TA300 and – the biggest hauler in the company's range – the TA400. These machines are typically used on large-scale construction projects as well as in quarries and on infrastructure developments. "Terex Trucks machines are simple to operate and easy to maintain," explains Paul.

"They are proven performers that deliver low total cost of ownership and high productivity."

The TA400 is a 38 tonne (41.9 tons) machine that's fitted with a six-cylinder Scania DC13 engine and an Allison HD4560 transmission, which delivers high performance and a fuel-efficient operation. The planetary gear transmission provides smooth, efficient gear shifting for optimized fuel consumption and reduced cost of operation. Ground level test points and a fully tilting cab, combined with an electronically raised hood, ensure ease of service and reduced downtime.

The 28 tonne (30.9 tons) TA300 is equipped with true independent front suspension as standard to enable excellent traction control and operator comfort, ensuring maximum productivity in the most challenging of conditions. The hauler's fuel efficient five-cylinder Scania DC9 engine meets the requirements of EU Stage 4/EPA Tier 4 Final emissions without a diesel particulate filter.

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TPV adds new Liebherr R 914 Compact crawler excavator to its fleet

- TPV has acquired a Liebherr R 914 Compact crawler excavator with Stage IV / Tier 4f engine
- The Liebherr R 914 Compact operates particularly well in confined spaces

The Alsace-based construction company TPV (Travaux Publics du Vignoble) from Sundhoffen has acquired a new Liebherr R 914 Compact crawler excavator with Stage IV / Tier 4f engine. The new compact excavator is to be used primarily for earthmoving tasks, the development of water supply networks and the construction of outdoor areas for private homes.

TPV purchased the Liebherr R 914 Compact crawler excavator based on the machine's excellent performance and its confidence in Liebherr's service. The machine enables safe and comfortable work in confined spaces.

The R 914 Compact expands TPV's fleet of Liebherr machines, which consists of A 311 and A 314 wheeled excavators and L 506 Compact and L 509 Stereoloader. This investment by TPV is also a reflection of the level of trust that its two Managing Directors, Etienne Oesch and Yann Sciquot, and their 30 employees have been placing in Liebherr for some time. TPV has been relying on its Liebherr sales partner since the company's formation in 2007.

When TPV was looking for a compact excavator for work in restricted spaces, the impressive solution the Liebherr sales partner presented to the company was the R 914 Compact: high levels of performance on construction sites, superb operating comfort and precise movements combined with rapid deployment.

With a short tail swing of only 1.55 m, the Liebherr R 914 Compact can be used to perform whatever tasks may arise in the construction of private homes, such as creating a garage entrance. The compact dimensions of the excavator make the work of TPV's employees safer and more comfortable and the risk of damage to the construction site environment is therefore very low.

The R 914 Compact is in perfect harmony with TPV's primary objectives: user-friendliness and job satisfaction, with excellent results.



The Liebherr R 914 Compact crawler excavator with an operating weight of approx. 14 tonnes has a Stage IV / Tier 4f engine delivering 90 kW / 122 HP.

The R 914 Compact crawler excavator with Stage IV / Tier 4f engine is the smallest crawler excavator built by Liebherr in Colmar, France. The model was designed for work in restricted spaces, such as inner city applications. Its very short tail swing makes it particularly convincing.

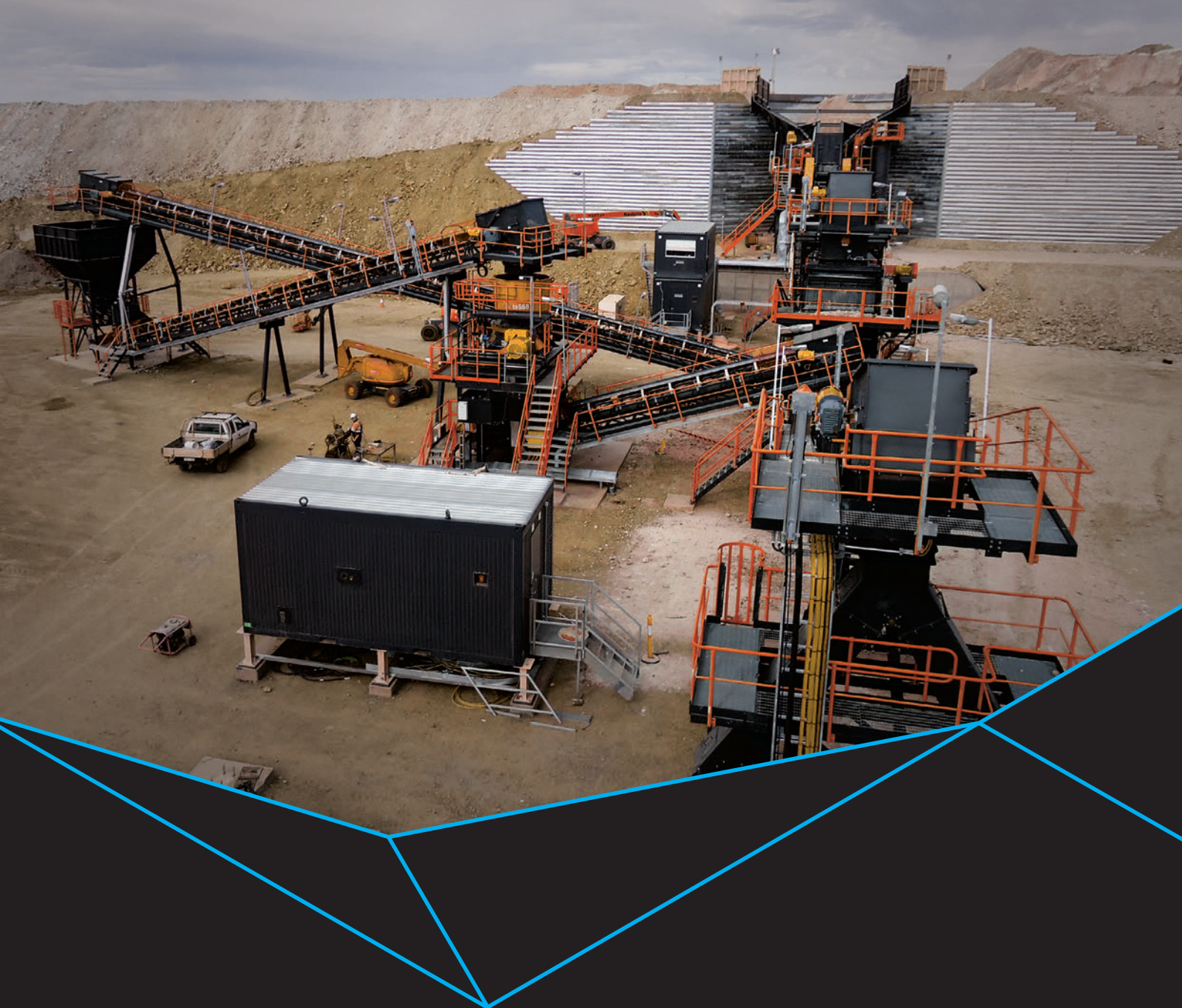
Thanks to its 14.9 tonne operating weight and 90 kW / 122 HP engine, the excavator has a high penetration force.

To simplify maintenance, regular maintenance tasks can be carried out at ground level and the automatic central lubrication system can significantly reduce the amount of time spent on daily maintenance tasks.

The R 914 Compact provides a comfortable working environment with air suspension for the seat as standard. Cameras around the excavator, which are also fitted as standard, guarantee safety.



The Liebherr R 914 Compact crawler excavator has a very short tail swing of only 1.55 m.



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Kiverco appoint Lincom Group for Australia & New Zealand



Kiverco are excited to announce a new partnership with Lincom Group to distribute their recycling plant equipment throughout the Australian and New Zealand markets.

As an award-winning dealer, Lincom have over 20 years' experience delivering world class products to the construction, recycling, quarrying and mining industries. Kiverco's high quality and robust recycling plants are the perfect addition to their current product range.

John Lines, Sales & Marketing Director for Kiverco states, "We are delighted with this recent appointment of Lincom. With their high level of coverage and strategically located depots throughout Australia and New Zealand, we will now be able to offer our customers a better level of support and grow our business in these markets. Their commitment to customer support will make them a trusted and valued partner for Kiverco."

Stephen Watterson, CEO of Lincom Group adds, "As a leading provider of material processing equipment, we are always looking into the best quality equipment for our customers. Kiverco's reputation of producing top quality recycling plants is of huge importance to us, along with their extensive experience and knowledge in the waste processing industry. We are confident that we will now see more Kiverco products and installations in this market as a result of this new partnership."

Kiverco consult, design, engineer and build uncompromisingly robust

recycling plant for the any business in the waste processing industry. They have been manufacturing static and mobile recycling plants for over 25 years. Whether you are a small or a large plant operator, Kiverco can provide equipment to suit all types of waste streams.

Lincom Group is a leading provider of material processing equipment and services for the construction, infrastructure, forestry, recycling, quarrying and mining industries. With operations throughout Australia, New Zealand, Papua New Guinea and the Pacific Islands the Australian owned family business provides industry leading solutions for more than 20 years.

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SENEBOGEN®

and Molson Green have joined together to take over the distributorship of material handling machines for industries such as waste, recycling and timber handling industries.



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and Molson Green have also teamed up with major equipment manufacturer Terex as a UK supplier for the Ecotec range of environmental equipment.

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A fleet of Terex Finlay C-1550 (direct feed) cone crushers and inclined 693+ and 694+ screeners are proving their worth at Tillicoultry Quarries

Tillicoultry Quarries has taken delivery of two C-1550 cone crushers, 693+ and 694+ inclined screens in the past eighteen months from Finlay Scotland Ltd for their hard rock quarries, sand and gravel, asphalt, concrete ready-mix and recycling operations.

These highly versatile machines are proving themselves across the company's 11 sites producing high quality value added products with high tonnages to support and meet increased demand for the high-quality processed products that Tillicoultry produce.

Wallace Menzies, Managing Director at Tillicoultry Quarries, said: "The operators and site managers are very happy with the new machines and I'm confident that they will continue to increase our productivity and ability to supply our customers with the products they require."

Offering large reduction ratios and a high output capacity, the Terex Finlay C-1550 cone crusher features the proven Terex TC1300 cone crusher, which is choke fed with an integrated level sensor, automatic tramp relief and hydraulic closed side setting adjustment to maximise production. To protect the cone, the feed belt is fitted with an automated metal

detection and purge system, which minimises downtime by removing metal contaminants via the purge chute.

The Terex Finlay 693+ and 694+ are compact three and four-way split mobile screens that are ideal for Tillicoultry as they are suitable for working in a range of applications including fine sand and gravel fine screening, recycling and quarrying.

Adam Rhind added: "I've been extremely pleased with the reliability and powerhouse performance of each of the machines. The ability to redeploy them across our sites is a real benefit to us and typically the machines are operational 30 minutes after they arrive on site. The accessibility for preventative machine maintenance is also an added benefit and the aftermarket support we receive from Finlay Scotland is great. If we need a part or engineer they're on site typically the next day and if really urgent within hours!"

Morris Wightman said: "The machines are working exceptionally well and playing a key part in operations to ensure high value products are processed with maximum output. We're grateful that Tillicoultry trusted in us when they made the decision to buy the new equipment, extending our close business relationship of over 10 years"





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Molson Green and Turmec grow together

Molson Green, the UK's largest distributor of capital equipment, become a dealer for Turmec, a leading waste management solutions provider based in Co. Meath, Ireland.

This deal sees the formalisation of a long-standing partnership between the two companies, where they have worked together to provide a full 360-degree product offering to recycling industry businesses for over 6 years.

Founded in 1973, Turmec have built a reputation for designing and engineering high quality products, ranging from design, installation and maintenance of large-scale recycling systems through to small modifications to existing plants. The UK market is currently the largest market for Turmec, but products are also currently distributed throughout Ireland, UAE and Australia.

Turmec static products will sit alongside leading brands of mobile equipment such as Terex Ecotec, Sennebogen and Terex Finlay in the Molson Green business from depots in Bristol, Warrington, London, Kent, Stratford-upon-Avon, Doune and Inverness.

Molson Group joint Managing Director Robin Powell said: "We have built a very strong relationship with Brian Thornton

and his team at Turmec over the last six years by working together to offer customers products and services that were not available from our other brands.

"When working in partnership with any company, we believe it is very important to maintain the high quality portfolio of products that represent the Molson brand. Turmec is a business that provides premium quality products that reflect and compliment our ethos.

"As the Molson Green business continues to grow, this deal now enables us to make a more coherent full 360-degree product offering to customers, with equipment that can be trusted in the most demanding applications."

Turmec CEO, Brian Thornton said: "There are strong synergies between the two companies with focus on customer service, product quality with most importantly integrity forming the base of this new agreement.

"Following this new agreement, Turmec will continue to deal with our existing customer base and the team of 39 salesmen within the Molson Group, will develop new leads from their customer base identify new opportunities throughout the UK."

BPE Lecieux chooses a CDE custom-made wet processing system for its rare limestone material - the Lutetian limestone

BPE Lecieux, a stone and gravel company located in Saint-Maximin, in the department of Oise, France, exploits the deposits of three limestone quarries: the Verbois site, the Ouachée and Corpechot quarry at the Les Dormants site, and, since recently, the former ROCAMAT site, dedicated almost exclusively to the production of blocks and materials for construction and public works. In 2015, Lecieux chose a CDE washing solution for its treatment site in Saintes Barbes, on the banks of the Oise, in order to increase its production of building sand and aggregates for concrete applications from the material known as “the stone that built Paris”.

Established in 1957, Lecieux has become a reference of excellence in the construction and public works industry. The quality of its materials, whose uses include the restoration of the Château of Versailles, the Louvre and the Panthéon, as well as many other historical monuments, is the result of years of innovation and technical improvements in the processing of the stones found in the Paris Basin. Lecieux owns 300 hectares of quarries of Lutetian limestone, a creamy light beige stone typical of Paris' most famous buildings, and works in full accordance with the Environmental Charter of the Quarrying Industries to preserve the Oise-Pays de France regional natural park.

Until 2014, Lecieux had used a washing system to treat alluvial sand deposits. However, after the acquisition of Lutetian limestone sites, the company had to adapt its technological requirements to the production of new products corresponding to the standard specifications for ready-mixed concrete. The site of the treatment platform in

Saintes Barbes presented the ideal conditions for the installation of a washing system specially developed for the production of materials to meet ready-mixed concrete standards while protecting the natural environment.

The Saintes Barbes site

The raw material obtained from a combination of materials is essentially soft limestone with a particle size of 0-20mm or 0-40mm, processed by a custom-made CDE solution comprising a wet processing unit combined with a waste water recycling unit. The Saintes Barbes site produces between 80 and 100 tonnes per hour of materials for the concrete industry and public works market. Three products are processed simultaneously by the CDE system: 0-4mm, 4-10mm and 10-20mm.

The gravels graded 4/10 (known as mignonette gravel) and 10/20 are used to produce concrete and products for landscaping projects. The quarry material also allows the production of a dry sand with a grain size of 0 to 4 mm, which is highly polyvalent and especially well-suited to masonry as well as some construction and public works applications requiring sand which is fine and easy to work with.

Jean-Luc Roussel, Sales Manager for BPE Lecieux, and Dominique Lecieux, Extraction Manager, add: “BPE Lecieux's Saintes Barbes site is ideally located a few kilometres away from our Parisian markets, which allows us to remain competitive in terms of the price of the materials thanks to strict management of transportation costs and close attention to the environmental impact of our operations.



"We feel lucky to have the opportunity to process a type of limestone that is imbued with history, the Lutetian limestone; it is typical of the Paris Basin and grants the buildings of the French capital their unique soft blond shade. For all our clients, including those involved in the restoration of listed buildings, we adhere to the most rigorous quality standards."

The CDE solution

The CDE M2500 E3X wet processing solution, co-developed with Lecieux in order to meet its production needs, integrates a feeding system, a cyclonic sand treatment unit, a sand and gravel washing and classification system and stockpile conveyors on a single chassis. It is combined with a waste water treatment unit - an AquaCycle A600 CDE thickener with a capacity of 600m³/h - which allows up to 90% of the used water to be recycled for immediate re-use into the system. The tailor-made feeding system has been completely modernised and increased in terms of throughput, while fully adhering to the required plan.

The M2500 E3X wet processing unit

CDE's M2500 E3X includes a wet processing unit which consists of a washing screen, a cyclone and a drier. Marc Sopransi, Business Development Manager for CDE France, explains: "The M2500 E3X demonstrates the efficiency of CDE's cyclonic technology and the adaptive ability of our process and engineering teams, who designed a bespoke process to the needs of Lecieux in order to extract from the sand the smallest possible amount of fine material, which is highly appreciated by the company's customers."

"The hydrocyclones were built in accordance with the client's specific needs, on the basis of the analyses of the feed product carried out directly by the CDE laboratory during the preliminary phase of the project."

"The used water carrying unwanted particles is expelled from the cyclone overflows, while the washed sand, having been processed, continues on to enter into the drying and storage stages. Thanks to cut points of unrivalled precision, the three products are processed simultaneously to the required standards and without any risk of cross contamination amongst the products."

The AquaCycle thickener - recycling water

The Saintes Barbes quarry plant also includes a waste water treatment unit - a CDE AquaCycle A600 with a capacity of 600m³/h - which allows up to 90% of the used water to be recycled using a system dedicated to the removal of fine particles via flocculation and expulsion of sediments, formed

by precipitation, into a settlement tank. Extra water is added to the treated water via a CDE Aquastore AS556 unit. This very limited amount of extra water serves to compensate the losses incurred due to residual moisture in the sand and sediments. The water is then sent immediately back towards the process, which thus functions almost as a closed system.

"The integrated flocculation station allows for precise dosing of the pre-mixed flocculant for efficient settlement. A single motor operates the rack arms of the AquaCycle for optimal treatment of the sediment prior to drainage."

Truly custom-made

CDE's machines are designed and constructed at the company's facilities to adapt to the needs of each application, in order to maximise the quality and quantity of the materials produced. In the case of the Saintes Barbes site, processing of the rare type of limestone requires a high level of precision.

90% of the material available - a soft limestone which is sensitive to the penetration of moisture - is made use of. The raw material therefore poses the risk of coagulating into a thick paste. To ensure fluid and constant feeding, it was essential to factor in key factors including the angles of the slopes and the size of the conveyors. The CDE team, in collaboration with the client, designed a tailor-made solution with a minimum of steep angles and with slopes calculated to avoid any risk of blockage. The management of BPE Lecieux says: "The design of our CDE system has proven itself over the past three years. The crushed raw limestone contains 28% of fine particles, which needs to fall to 12% to meet ready-mixed concrete standards."

"We pursue a goal of "zero waste" and the CDE machinery offers a range of high-tech products which allows us to achieve this. The modular nature of the equipment allows us to consider and visualise future improvements which integrate perfectly into the existing system."

A flawless after-sales service

Each CDE materials processing project benefits from the company's own "customer for life" methodology. This provides regular and consistent service, with a minimum of intermediaries, preferring a single point of contact to ensure clear and efficient communication from the start of the planning process through to the end of the plant's lifespan.

Jean-Luc Roussel concludes: "We are happy with the quality - price ratio of our machinery and especially appreciate CDE's after-sales service, with its team in France being always on call."



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The Colt 1000 puts on an 'impressive performance'



EvoQuip's latest innovation—the Colt 1000 scalping screen—has received a glowing report from Rapid Aggregates in the UK who tested the machine before its launch at the 2018 Hillhead Exhibition. Building upon the success of the Colt 600 and Colt 800, the COLT 1000 is the largest screen in the portfolio and capable of processing up to 360tph (403us tph), depending on application.



Commenting on its performance, Trevor Armitage, Rapid Aggregates Managing Director said, "I am impressed by the performance of the Colt 1000, a powerful machine for such a small package. There is nothing it can't cope with and output is comparable to larger screens. The screenbox is very aggressive and excellent at clearing both stone and wet soil material."

The highly adaptable machine incorporates an aggressive double deck screen of 3.96m (13') x 1.22m (4'). The variable screening angle and numerous screen media options enable the machine to operate in both heavy duty scalping and precision screening applications, and to manage even the most difficult of materials. In addition, the full 13ft bottom deck ensures optimal classification in fine screening applications.

The versatile and mobile Colt 1000 includes a compact footprint, maintaining the ethos of the range. Standard configuration discharges the fines product to the right side of



the plant, with the mid-grade on the left. Both conveyors can be ordered reversed as an option, with the ability to place both conveyors on the same side of the unit once the Colt 1000 reaches the field. Flexibility is further enhanced with two-way split conversion by simply relocating the tail conveyor to collect both top and bottom deck pieces.

The Colt 1000 achieves excellent conveyor discharge heights and by coupling a broad belt on the fines the machine distinguishes itself from the competition. The feeder system has class leading capacity through the folding hopper extensions. The 1000mm wide feed conveyor complements the screen width to ensure maximum screen area is managed from the feed point.

The machine was one of three new products launched by EvoQuip at Hillhead to expand their compact crushing and screening portfolio. The other machines were the Cobra 230R impact crusher and Cobra 290R impact crusher. The Cobra range of Impactors provides class leading productivity, unmatched versatility and excellent fuel efficiency; the range is designed with the operator in mind in terms of ease of use and serviceability.

All models can be fitted with the T-Link telemetry system which provides the customer with real time information on the performance of their machine. Telematics maximises uptime, parts and service availability and provides factual up to date information from the field.

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 www.kleemann.info

Protect Your Workers when Operating at Height



Most operatives and site personnel understand the dangers and safety risks to working at height, but do they know the right steps to consider when selecting the correct fall protection and prevention equipment?

Indeed, working at height maybe the most effective way to carry out certain tasks but, as with many working areas in the industry, it is not without its risk of injury if correct safety precautions have not been communicated to the workforce.

Whilst it seems obvious that extensive training must be carried out before any work at height commences, correctly selecting the appropriate system for the task is crucial. There are 2 main systems that are industry recommended when working at height.

Work Restraint Systems (fall prevention) allow the worker to conduct their task whilst preventing them from reaching a leading edge or the point where a fall could occur. These solutions are suitable for work that needs to be carried out on the precipice of a hazard and will usually be a fixed-length lanyard and body harness / belt.

Fall Arrest Systems (fall protection) are needed when the worker can reach the leading edge allowing maximum freedom of movement. In the event of a fall, these systems prevent the worker from impacting a lower level by absorbing the kinetic energy that is generated by falling.



Harnesses (which must be a full body harness and used in conjunction with a lanyard) are available in 1, 2, 3 and 5-point systems wherein a 3-point harness would usually be selected for the more technically challenging tasks, such as positing and work restraint, with a 5-point harness generally being used for abseiling. Fall arrest and work restraint lanyards should be used in conjunction with a harness.

It is also essential that the fitting of a harness is suited to the user (of which some are gender specific) according to their size and weight in order to maximise the effectiveness of the system and the safety of the worker as well as ensuring that all attachments and anchor points are correctly positioned for the intended application; all safety harness training should cover this.

Safety harness training provides workers with the skills and knowledge that is needed to implement good working practice whilst using the equipment, including maintenance of the harness and the importance of wearing the correct protective clothing and footwear to prevent slips and trips which could result in a fall.

Wherever there is a need to work at height, employers are legally obligated to have comprehensive fall protection or fall prevention and rescue plans in place. These plans will identify the appropriate equipment for the application and implement safety procedures to mitigate the distance and consequence should a fall occur. The rescue plan will then be activated in the event of a worker falling and being suspended or trapped at height.

For more information on selecting the right working at height equipment or to book your safety harness training today, call us on 01246 386900.

New Doosan DL580-5 Wheel Loader aimed at heavier work

Doosan has launched the new DL580-5 top-of-the-range Stage IV compliant wheel loader. With a bucket capacity of 6.4 m³, the DL580-5 has a similar look to the existing DL550-5 model, but features robust structural components and an advanced sophisticated double circuit axle cooling system to provide an ideal solution for applications such as block lifting and other heavier material-handling needs in industrial, construction, recycling, mining and quarrying applications.



To meet these requirements, the DL580-5 has an operating weight of 36030 kg and higher static tipping loads (straight/full turn 40°) of 29700 and 26200 kg, respectively. The overall size of the DL580-5 is almost the same as the DL550-5, but the new model is equipped with a series of features that make the machine extremely reliable and durable.

For example, the front structure is more rugged, with greater rigidity and strength. The DL580-5 has reinforced Z-bar kinematics for heavier lifting with few moving parts. This design also helps stabilise the loader, enables rapid bucket movements and keeps the bucket at the right angle position at all times. As with all Doosan DL-5 models, the DL580-5 is also available with a High-lift configuration, with a longer arm enabling higher dumping of materials.

The DL580-5 incorporates all of the new safety and ergonomic features recently announced for the other six large Doosan wheel loaders from the DL280-5 to the DL550-5. It also features the new restyling common to all models in the Doosan wheel loader range. The new styling scheme involves a change of colour (from orange to dark grey) for the front lift arm, front frame and front and rear axle components on the machines. The more dynamic curved lines of the new styling are designed to reinforce the robustness and power of the Doosan wheel loader range.

The DL580-5 is powered by the Scania DC13 6-cylinder engine producing 283 kW (380 HP) of power at 1800 rpm. Providing a generous maximum torque of 1765 Nm at 1300 rpm, up to a 10% reduction in fuel consumption and excellent response, the Scania DC13 engine meets Stage IV emission regulations without the need of a diesel particulate filter (DPF), through the use of cooled exhaust gas recirculation (EGR) and selective catalyst reduction (SCR) after-treatment technologies.

Additional Fuel Savings

The engine Auto Idle system when activated saves further on fuel costs by lowering the idle level from 950 to 750 rpm – when the operator does not give any input to the steering wheel, arm and bucket for more than 10 seconds (ideal for applications where there is a lot of waiting time such as truck loading which can be up to 8% of the time). In all DL-5 loaders, the Engine Auto Shut Off shuts down the machine after it has been idling for a specified amount of time (3-60 minutes, configurable by the operator via the control panel). This feature saves on fuel and reduces operating costs.

As well as the powerful Scania DC13 Stage IV engine, the DL580-5 also features automatic 5-speed powershift transmission, heavy duty cooled axles, a high comfort cab, smooth and responsive hydraulics and auxiliary hydraulic connections, together providing a solution for the heaviest jobs that need to be done. As with all other Doosan DL-5 wheel loaders, most of these features are standard on the DL580-5 unlike other machines on the market where they are options and many have been developed to optimise fuel efficiency.



ZF 5-gear Transmission

The ZF 5-gear transmission transfers the power from the engine to the wheels and contributes significantly to the overall reduction in fuel consumption. Engine speed variation is less thanks to smaller gear steps, and lower engine speed throughout the whole drive range reduces fuel consumption. Thanks to higher shift quality, noise levels are lower while driving performance and productivity have been increased.

Like all Doosan wheel loaders, the DL580-5 is equipped with a Torque-converter-lock-up system which, when activated, is switched on automatically. The lock-up provides a direct drive between the engine and transmission, enabling 100% torque delivery without any loss from 2nd gear up to the top 5th gear. This makes the lock-up more efficient, giving faster acceleration on flat ground (10%) and higher climbing ability (up to 20%), together with around up to 15% fuel savings in daily operation. This contrasts with many of the drive systems on other machines, where the lock-up is engaged only in highest gear.

The ICCO (Intelligent clutch cut-off) system allows the transmission output torque to be cut off according to the angle of the brake pedal, preventing unnecessary power use during braking, which in turn reduces brake wear and heat generation, while extending the oil change interval and promoting better fuel economy.



The outboard disc brakes enable easy servicing without dismounting the axles. The parking brake switch includes a safety unlock trigger. When the engine is turned off, this brake is automatically engaged and not released when the engine is started.

The ZF Type II axle with an automatic Hydraulic Differential Lock (HDL) for the new loader provides further protection of the drive system components, including tyre wear reduction and produces 100% tractive effort when necessary, contributing to further fuel savings. It also reduces the risk of skidding and prevents excessive tyre wear.

Available on the front and rear axles in the DL580-5, the oil cooler system is a new feature providing higher axle oil cooling capacity for demanding applications. It comprises two completely separate circuits for the front and rear axles; a Dedicated Cooling Control Unit for 'optimized flow rate' and 'De-aeration' to maintain a proper level of oil cooling, with temperature sensors for axle oil circulation control in low temperatures.

Load-sensing Hydraulic System

Like all latest generation Doosan large wheel loaders, the DL580-5 has a load sensing hydraulic system, whereby the variable axial piston pump generates the flow upon demand in the amount necessary to perform the work. This also gives better traction for penetrating into the stockpile, as less force is necessary to operate the bucket in many situations. Load sensing hydraulics also minimise loss in the hydraulic circuit during a carrying operation in which the loader is usually running, which is an essential technology for wheel loaders. In response to customer feedback, the load-sensing system has been designed so that the bucket has higher priority when the boom and the bucket operate at the same time and there is limited force available.

Joystick control on the new wheel loader is designed to easily combine several movements at the same time. As an option, 3-lever fingertip control can be provided for smooth and near-effortless control. Both of these controls use electrohydraulic piloting.

The DL580-5 has a boom Kick-out function as standard, which is useful when working in confined spaces or when repeating similar operations in specific work ranges (for example, when a certain dump height must be reached every day). The same system is used to set the bucket automatically to the Return-to-Dig position.

The LIS (Load Isolation System), often called 'Ride Control', provides the operator with a smoother ride over rough terrain and enables a more comfortable ride at higher speeds. The benefits are reduced cycle times, higher productivity and better fuel efficiency while performing load and carry applications. LIS also contributes to longer frame and machine life.

The loader also offers a 'third function' to power a hydraulic system on a work tool, allowing greater machine versatility in a number of applications. The third function valve's capacity has been increased significantly to at least 250 l/min discharge.

High Comfort Cab

The cab demonstrates how Doosan has placed operator comfort at the very centre of its design priorities. Offering generous headroom and an ultra-comfortable, fully adjustable, heated Grammer air suspension seat, the DL580-5 cab features a novel steering column design giving more clearance for the operator's legs and knees. The steering wheel can also be tilted and moved telescopically to match the operator's preferred position. Electric joystick steering is incorporated to ensure operator driving comfort and improve productivity.

Many of the new features on the cab in the large DL-5 wheel loaders such as DL580-5, are aimed at increased safety and visibility in and around the operator's cab. For example, a new handrail has been installed around the cab roof with three holding points, allowing operators to move very safely all around the cab to clean windows and to perform other tasks.

A new large step and access platform has also been added on the front of the cab and a change in the wiring routing has allowed the horn to be repositioned below the road light. Together these changes ensure maximum safety and confidence, with very safe and faster movements around the cab (without any obstacles) during daily maintenance.



New Joystick Control

Inside the cab, there is a new ergonomic joystick control with a progressive thumb wheel added for the auxiliary hydraulic line (3rd valve). The progressive thumb wheel ensures that no additional lever is needed, providing the easiest combination of movements to manage the 3rd valve operations. FNR control has been relocated on the back of the joystick, via a three-position rocker switch, which is much more convenient and intuitive to use.

The increased space, better visibility and plentiful storage space in the cab allows operators to work for hours without fatigue or discomfort. Meeting ROPS/FOPS regulations, the cab also offers a wide emergency exit (located on the right hand side) to provide fast and easy evacuation in critical situations.

The 5.7 inch full colour LCD panel is suitable for day and night work. The user-friendly monitor has two customisable screen displays to suit the operator's preference, giving a full readout of machine settings and maintenance data.

The rear-view camera greatly enhances visibility and safety.

The screen in the cab shows the operator what the camera sees and includes several lines to help judge distances; it also has other functions, including light intensity control, viewing angle control, language setting and power on/off setting.

On the control panel, all the switches are clearly arranged and within easy reach of the operator. Rocker type switches have been replaced by a multi-selection touch pad. Accurate and smooth joystick controls provide further comfort and operators can save time and reduce the number of operations with the 'Boom Kick-out' and 'Return-to-Dig' systems. These functions are operated electronically from inside the cab.

The cab air is filtered twice to eliminate all particles larger than 2 microns in size and the fully automatic climate control system adjusts the air temperature and fan speed to maintain the ideal climate setting for the operator.

To make life more comfortable and easier for operators, Doosan has added a rolling sunshield on the rear window to avoid any disturbance from sunlight during operations. The cup holder has also been relocated to the front right of the cab and a new double hanger hook allows both a helmet and a jacket to be hung inside the cab.

The operator has the benefit of additional convex mirrors installed on the lateral mirror frames. The wider angle and additional visibility provided by the convex mirrors along the side of the machine ensure safer manoeuvring of the wheel loader on site and in the quarry.

A new external, steel tool box installed below the ladder on the left hand side of the wheel loader is a convenient location for gathering and storing tools. The tools are now accessible from ground level, with no need to climb up the side of the cab to reach them, so the cab stays cleaner and there is no obstruction of the cab entrance for safer access.

DoosanConnect Fleet Management System as Standard

The DL580-5 is factory-installed with the latest DoosanConnect state-of-art wireless fleet monitoring system, a feature now incorporated as standard in all new DL-5 generation machines. The DoosanConnect system is a tool designed specifically for the Doosan range, providing comprehensive information about machine performance in a dual mode (satellite, Mobile network).

The DoosanConnect system offers a web-based fleet and asset management solution which is very useful for managing the performance and security of machines and promoting preventative maintenance. The system can support multiple Doosan machines in different locations, helping customers to monitor machine utilisation rates to assess that the right mix of machines is being used; it can also guide drivers to help them to operate equipment with higher efficiency and to locate replacement machines in the event of maintenance work or breakdowns, all under the umbrella of vigorous anti-theft and theft recovery protection systems.

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

Easy Maintenance and Servicing

The exhaust and after-treatment system for the engine is installed on the left-hand side of the machine, whilst the components for maintenance are grouped on the right-hand side. All the daily checking of gauges can take place from ground level to ensure it is a quick and safe process. Doosan has also installed an automatic greasing system as standard to reduce working time and increase operating comfort. To facilitate access and mobility on the machine, multiple hand-rails ensure that the operator always has a firm support to hold on to.

The wheel loader features a new lockable steel cap on the transmission oil filler, the shape of which has been changed to allow it to be locked with a padlock. When the transmission oil filler tube is locked, the transmission oil cannot be polluted with other types of oil or liquid, dust and other substances. It is also an additional guarantee of security for the customer.

The efficient all aluminium cooling system is separated from the engine compartment to prevent warm and dusty air from entering and to allow better control of the air intake. An automatically variable-speed reversing fan is a standard feature providing the best possible cooling while optimizing fuel consumption. The radiator fan is hydraulically driven and controlled by an ECU. Changing the fan direction for cleaning the radiator can be done manually from the cab, without having to switch off the engine. Fan reverse intervals (30 minutes to 2 hours) can be set via the menu.



Brief specifications for Doosan DL580-5 wheel loader

• Capacity, heaped:	6.4 m ³
• Static tipping load, straight:	29 700 kg
• Static tipping load, at 40°:	26 200 kg
• Length with bucket:	9 725 mm
• Width with bucket:	3 400 mm
• Height:	3 785 mm
• Bucket hinge height:	4 780 mm
• Dump height (at 45°) with bolt-on teeth:	3 380 mm
• Dump reach (at 45°) with bolt-on teeth:	1 435 mm
• Wheel base:	3 700 mm
• Turning radius, bucket edge:	7 544 mm
• Maximum travel speed (5th gear):	37 kph
• Engine: 6-cylinder Scania DC13, delivering 283 kW at 1800 RPM	
• Operating weight:	36030 kg
• Breakout force:	225 kN
• Tyre size:	29.5 R25 - L5

Hike in quality from Finlay Plant Northern



Martin Nairn & Andy Archer

One of the country's leading waste and resource management companies is reporting a significant improvement in its product quality thanks to innovative plant from Finlay Plant Northern.

Since the arrival of the new Terex Finlay 693+ and 694+, FCC Environment has seen a 50 per cent increase in the saleable amount of undersize product, giving the company confidence to tap into new markets.

Both machines are working in tandem at Barnsdale Bar Quarry, Pontefract – which is one of six limestone quarries in Yorkshire belonging to Darrington Quarries, part of the FCC Environment Group.

FCC Environment, which employs nearly 2,200 people across the UK, works to minimise the amount of waste that ends up in landfill by transforming it into valuable resources.

Andy Archer, Quarry Manager at Barnsdale Bar, has been impressed with the capabilities of the new machines and the value they are bringing to the business.

He said: "The Terex Finlay 694+'s versatility is a major advantage to the company.

"The biggest selling point of the machine for me was its screen box, which features three, full sized 20ft screens.

"With a larger and more efficient screening area, we are processing a higher volume of material to a much better quality.

"We've never had so much 10mm product in stock."

The robust Terex Finlay 693+ features two full sized 20' x 5' screen decks and with a combination of quick wedge tensioning on the top deck and hydraulic tensioning on the bottom, it ensures that mesh setup and change out times are kept to a minimum.

Its three conveyors allow FCC Environment to produce a 75mm oversize, a 75mm-40mm clean stone and a 40mm aggregate.

The 40mm product feeds directly into the Terex Finlay 694+, the industry's leading tracked mobile inclined screen, which boasts best in class production levels, setup time and ease of operation.

It features an innovative hydraulically folded fourth conveyor, which allows simple adjustment with variable tilt and slew discharge for recirculation or stockpiling of finished material.

Together, the machines are powering through 1,400 tonnes of material a day, with the Terex Finlay 694+ producing four products, which include a 40mm, 20mm, 10mm and a -10mm dust – which then go on to be used for road construction, house building, concrete production and civil engineering.

Andy added: "The Terex Finlay 694+'s four-way spilt has enabled us to produce an additional material, something we weren't able to do prior.



"This means we can now approach different markets as we are confident we can supply them with what they want.

"Finlay Plant Northern hasn't disappointed us either, we have a great working relationship with them and their after-market servicing is really important to us."

Finlay Plant Northern, part of the Finlay Group of companies, has worked alongside FCC Environment for around 20 years and supplied them with seven machines, including impact and jaw crushers as well as screening plant.

Martin Nairn, of Finlay Plant Northern, helped specify the machines. He said: "It's great to see the plant proving so much worth to the company.

"I'm looking forward to working with Andy and the team in the future."

To see the machines in action, visit <https://www.youtube.com/watch?v=pFJ5YQ4bi70&feature=youtu.be>



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Mason Brothers keep on crushing with Sandvik

Pembrokeshire based Mason Brothers Quarry Products has a longstanding relationship with Sandvik which goes back to the 1990s. The company now produces in excess of 100,000 tonnes of high quality aggregate from its Rhyndaston quarry near Haverfordwest, with a mobile crushing, screening and scalping train from Sandvik playing a key role in ensuring that Mason Brothers' customers get the materials they need.

Mason Brothers Quarry Products is family run business which has carved out a niche in supplying sand and aggregates throughout Pembrokeshire, Ceredigion and Carmarthenshire for over 25 years. Due to high demand, many of its varied products are also supplied further afield, with the company priding itself on producing and supplying products of the highest quality at competitive prices, delivered where and when its customers require them. "We run six tipper trucks out of the quarry and now produce over 100,000t of mixed aggregates," stated company managing director Alun Mason.

The wide range of products produced at the quarry ranges from type 1 sub base to ornamental and building stone. The company also supplies a range of other products including volumetric concrete, concrete blocks, portable gabion baskets, drainage pipe, and is able to deliver materials both loose or bagged dependent on customer requirements. As well as its flag ship operation located at Rhyndaston Quarry, Haverfordwest, the company also works out of other quarries, including its new shale quarry which is also located in Haverfordwest.

Demanding rock

Most of Mason Brothers' material is produced at its Rhyndaston quarry. "It's (the rock at the quarry) a metamorphic granite, with its actual name being Royal Lite Hornfeldt. It breaks reasonably easy, but it is quite abrasive which makes it hard wearing on any equipment we use," explains Alun, who continues: "This means we try and sort out equipment that is going to do what we want, and give us the tonnages that we require, but at the same time keep our costs to a minimum."

A key part of the production process at the Rhyndaston quarry is Mason Brothers' crushing, screening and scalping train supplied by Sandvik Mobiles. This comprises of a QA451 triple deck Doublescreen, QH331 cone with hanging screen, and currently, a QE341 scalper with finger deck.

The highly productive and efficient nature of the set-up is explained by Alun: "Two boys there run the complete quarry. They primary crush at face and then scalp off the material. We produce a 1-4 inch (25mm-100mm) cone feed from the face which we then stockpile at the rear of the cone crusher. This is then moved across the quarry with an excavator loading the cone for secondary crushing. This set-up enables the running of the entire quarry with just two men."

Cone crushing developments

"They're always developing and improving things," says Alun of one of Sandvik's latest developments which is proving to be essential for his quarrying operation. The QH331 cone crusher with hanging screen was launched at Hillhead in 2016, and its features have proved to be particularly of benefit to Mason Brothers.

"Obviously the hanging screen has been a big improvement for us. It's efficient; we don't re-circ a lot with it as we tend to try and use all the products the machine produces. Another good thing is that you haven't got crusher backing to leave 'cure'. We change between 'matt' and 'concave' (on the cone) quite regularly, so we can just change and get on with a day's work."

The QH331 draws heavily on Sandvik's expertise in cone crusher technology, which as Alun explains has been put to good effect. "We try to keep the shape (of the end product) which is something the cone has enabled us to do. We only primary and secondary crush, we don't tertiary crush at all, so we have to get that shape right in two stages."





Long standing relationship

Mason Brothers has been using mobile crushing and screening equipment from the Sandvik range for nearly as long as it has been producing aggregates. "We've a long, long relationship right back to the Extec days (Extec was acquired by Sandvik in 2007). They've always pulled us out and kept us going."

Alun further explains how this excellent relationship between the two companies helps maximise the production and effective use of the equipment. "We are a long way from Sandvik. They do come out as quickly as possible (if equipment requires services, parts or in the rare event of a breakdown) but they also provide good advice over the telephone so we can try a lot of things ourselves without the need to send a service engineer."

Alun Mason's experience of Sandvik and its mobile crushing and screening equipment is still highly positive after many years working together. "I'd have no problems in recommending Sandvik to anybody. We've got a good relationship with them and they've looked after us over the years. Well, obviously, we wouldn't have spent the money with them if weren't happy with product, and happy with the company."





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Adaptable impact crusher series MR EVO2



With the MOBILEX MR 110 Z EVO2 and the MR 130 Z EVO2 Kleemann offers mobile impact crushers that can be used very flexibly in recycling and natural stone processing. Using some additional equipment the plants can be adapted to the respective application for optimal results.

EVO2 impact crushers with new "SPECTIVE" control system

The mobile impact crushers of the MOBILEX EVO2 series are used in the primary and secondary crushing stages. They are designed so that they can be easily transported and are ready for rapid deployment. The diesel-direct drive concept also ensures high performance with economical consumption at the same time. The system widths of the impact crusher are opened in the direction of the material flow for better utilisation and higher productivity. The innovative Continuous Feed System (CFS) controls the frequency of the conveyor belts in relation to the crusher load. The plant is controlled via a 12" touch panel. It is based on the new SPECTIVE control concept. The control concept simplifies the operation of the plant as all functions are recognisable at a glance and clear symbols point the way. This way operating errors are avoided and occupational safety is improved. Important functions, such as the crusher gap adjustment, are easily adapted, some even during operation of the plant.

High final product quality thanks to secondary screening unit

The integrated, independently vibrating double-deck prescreen reliably filters fines. The plant can also be equipped with an extra large secondary screening unit in order to produce high volumes of a defined final grain size – without the additional use of a classifying screen. The optional equipment of the secondary screening unit with a frequency converter leads to even better final product quality. The frequency of the secondary screening unit can thus be controlled independently of crusher and engine. The advantage here lies in the fact that the engine can be driven at lower speed and as a result fewer fines occur especially in recycling applications. At the same time the speed of the screen can be set higher which leads to more efficient screening.

MOBILEX MR 110 Z EVO2

The mobile impact crusher MR 110 Z EVO2 shows its strengths both in recycling and in natural stone processing.



Efficient operation of the crushing plant

Another example of the increased efficiency is the optional air classifier. This ensures increased material quality as the material is thoroughly cleaned of impurities such as wood and plastic. The air flow can be controlled precisely depending on the material. Less manual work and sorting are required.

In order to be able to continuously monitor the production of the impact crusher, the use of an integrated belt scale is offered.

Technical data	MOBILEX MR 110 Z EVO2	MOBILEX MR 130 Z EVO2
Feed capacity up to approx.	350 t/h	450 t/h
Crusher inlet (W x H)	1100 x 800 mm	1300 x 900 mm
Weight	44,500 kg (without secondary screening unit)	49,200 kg (without secondary screening unit)
Engine power	368 kW	368 kW

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Robins of Herstmonceux, Hailsham, East Sussex has opted for a new Volvo L90H loading shovel

which joins existing Volvo L90s at its Newtimber chalk pit located at Pyecombe on the outskirts of Brighton

"We've been operating Volvo L90s since 1998 here at Newtimber chalk pit and have been extremely satisfied with their performance and reliability. They are the optimum size of loading shovel for our operations and are definitely our machine of choice," says Quarry Manager, Gary Robins. "In fact, one of our older machines has clocked up around 15,000 trouble-free hours and is still in excellent running order - not just the powertrain, but the linkages on the loader frame and articulation joint are just as they were from new."

The 15.6 tonne loading shovel is powered by a Volvo six-litre Stage-IV engine developing 188hp with a maximum torque achieved at just 1,400rpm, resulting in low fuel consumption with maximum efficiency thereby achieved at a relatively low rpm. The machine also benefits from Volvo designed and manufactured driveline components designed to offer considerable fuel savings each shift. Fuel savings are further enhanced by the Volvo Eco-pedal, encouraging the operator to run the machine at its optimum rpm in the engine's torque curve.

"Opting for the L90H gives us the flexibility on site to load either our fleet of tippers or smaller loads onto private pickups and trailers, and having the benefit of the hydraulic attachment bracket means we can interchange buckets to suit the different applications around the pit," continues Gary. "From a performance and an after-sales support perspective, Volvo wins hands down in my opinion and being around loading shovels for a long time, I'm very confident in saying that."



Robins of Herstmonceux is very much a family run business which was established 56 years ago by Gary's grandfather as a local haulage company. Today the company specialises in chalk extraction, recycled aggregates, earth moving and muck away supported by a fleet of 12 eight-wheeler tippers, and ten and seven tonne lorries.

SMT GB markets Volvo Construction Equipment products which include wheeled loaders, articulated haulers, hydraulic excavators, Volvo utility equipment and Volvo road equipment products in Great Britain. There are eight strategically placed customer support centres; a dedicated National Used Equipment Centre and a network of utility equipment dealers to ensure high quality customer support is maintained throughout the country.

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New Terex Finlay machines boost production at Skene Group Construction Services Ltd



Terex Finlay's J-1480 jaw crusher and 883+ heavy duty screener are proving to be very productive and efficient additions to the crushing and screening fleet at Skene Group Construction Services Ltd.

Finlay Scotland Ltd has supplied the machines, which are being used at Skene's two quarries at Soutra Mains and Lomond Quarries. Both quarries operate two-tier bench systems and the machines are moved between the quarries and faces to satisfy production requirements.

For the past 50 years, Skene Group have been involved in the processing of quarry material, groundworks and in the production of concrete blocks and ready-mix. The company retains its family and has grown on the core values and beliefs of delivering first class products that their customers can depend upon.

The J-1480 jaw crusher was ordered and built to a high level with many optional factory fitted extras. The pre-screen incorporated on the machine is doing an incredible job and increasing production during the winter months, even with sticky materials that have traditionally proven to be a challenge. This option prevents build up and blockages in the crusher chamber by removing fines that don't need to enter the chamber. When blockages do occur the hydrostatic drive arrangement of the plant means that the reverse running of the chamber can be engaged to help clear blockages. This feature ensures downtime is minimised in a safe, quick and efficient manner with minimal intervention from operators required.

The 883+ heavy duty screener is being operated along with the J-1480 jaw crusher. This plant was also built to a high specification with chassis riser and extended fines and middle grade conveyors to maximise stockpile capacity.

Both machines are fitted with the Terex Finlay T-Link telematics system as standard. The T-Link telematics system enables Skene's to remotely monitor the machines performance and ensure the regular preventative maintenance is scheduled as required.

Darren Forrester, Skene Group's Joint Managing Director said: "We are very pleased with the performance of both machines. The pre-screen on the J-1480 is doing a great job and improves the flow of material into the jaw to deliver impressive tonnages even with the sticky materials during the winter period. Both machines are versatile for us and enables us to move the machines between and around our quarries depending on the production demands. What also attracted us was the back up support we knew that we'd get from Finlay Scotland. It was a combination of machine performance and the back up support that gave us the confidence to order a second J-1480 crusher and we look forward to taking delivery of the new machine."

Euan Fairweather: "I'd like to thank Darren Forrester for giving us this opportunity and trusting in Finlay Scotland. Both machines have proven themselves in the difficult and abrasive environments on both Skene quarries and giving excellent tonnages. Both machines are playing a critical part in operations to ensure high value products are processed with maximum output. The material goes straight into the J-1480 and the machines' independent pre-screens and large chamber opening make it ideal for this type of application before being screened by the 883+ screener. The machines also offer the ability for Skene Group to re-configure them to offer a number of flexible options to meet market demand."

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CMS Cepcor® completes new crusher installation in record time.

Out with the old, and in with the new...



The CMS Cepcor® service team have recently completed the installation of a new Metso® Nordberg HP400 cone crusher at a large local granite quarry.

This new crusher replaced another Nordberg HP400 cone crusher that had suffered major component failure.

Lee Hodges – Commercial Director, commented, "Following a call we made initial on-site inspections on the Saturday to identify the extent of the damage to the old crusher. The crusher sale was subsequently concluded the following day to minimise downtime, with removal of the old crusher, initial install and re-configuration of the new crusher commencing on Monday morning."

Maintaining production for aggregate producers is high on the agenda at CMS Cepcor® and the recent crusher replacement is nothing out of the ordinary for the company.

Lee, continued, "We carry huge stocks of new and factory reconditioned crushers along with a massive inventory of wear and spare parts at our Coalville, Global HQ which allows us to respond quickly in cases like this. All credit to our service team members James Wilford, Adam McDermott and Wayne Green who completed the transition efficiently."

Crusher service:

It doesn't stop there though as CMS Cepcor® are the leading multi-brand crusher service provider operating a large fleet of service vehicles including a fleet of Scania truck mounted cranes.


Capable of safely lifting 16,000 Kgs at a 3.5 metre radius the truck mounted crane can lift a wide range of major crusher components, assemblies and even complete crushers.

All engineering services are completed considering original factory tolerances by their own 'certified' and factory-trained crusher service technicians.

Unrivalled expertise:

Knowledgeable staff have unrivalled expertise within the crusher service industry, particularly in the design, manufacture, operation and maintenance of crushing, screening and asphalt plants, with most previously being employed by some of the most highly regarded original equipment manufacturers.

CMS Cepcor® have supplied hundreds of new, factory reconditioned, refurbished and used jaw crushers, cone crushers, impactors, screens and feeders to mining and aggregate processing; establishing a worldwide reputation for the supply of quality crushing and screening plant.



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QMS have installed a new B6 cone crusher in a Large European Quarry.

The B6 Cone crusher is the latest addition to the QMS B-Series range. With a 315Kw, 420Hp power motor, the B6 cone will crush up to 660 tonnes per hour. Offering 7 different concave profiles and eccentric throws from 18mm up to 50mm, the crusher can be configured as a high-capacity secondary or high-reduction tertiary.

This B6 Cone Crusher was supplied with an optional variable speed drive. This allowed the customer to fine tune the crusher to their exact requirements, by varying the operating speed of the crusher at the turn of a dial. The large capacity of the B6 cone crusher, makes it suitable for large quarries and mines. B-Series cone crushers are manufactured by QMS in the UK and deliver class leading performance, robust construction, dependability, and ease of operation all backed by the excellent after sales service.

Please contact QMS with your enquiries or for more information.

30% increase in the production of crushed stone at Barracão quarry

Improving its efficiency and productivity after purchasing the Metso MX4 Multi-Action cone crusher, the company has measured a 30% increase in the production of crushed stone and now has a production capacity of 150 thousand tons per month. This means that Barracão revenues are up by 30% through high market demand.

How to increase productivity?

Britagem e Pavimentadora Barracão has been operating in the aggregates market for 15 years. Located in Gaspar, Santa Catarina, Brazil, it has its own fleet and serves the entire Itajaí Valley region. The organization also owns an asphalt plant and supplies crushed plant material for the asphalt base along with standard or ecological asphalt produced from recycled rubber.

The company used to have a closed-circuit operation for crushed stone extraction, but its activities had to be interrupted whenever there was a need to adjust or calibrate the equipment. This affected productivity of the plant greatly. Parallel to this, Barracão was also looking to increase fine materials production to meet increasing market demand.



New chapter in productivity



Antônio Assini,
Owner of Barracão

To resolve these issues, Barracão consulted Metso who suggested to install the revolutionary cone crusher Metso MX4 in the quaternary phase with an extra fine cavity to replace a competitor's crusher. Just two months later, Barracão ordered a second Metso MX for use in the tertiary phase with a fine cavity to replace a Nordberg® HP4™ cone crusher which in turn replaced a competitor's cone crusher in another part of the process.

"We have been working with Metso for many years. We have four Metso machines already installed in our process and now with the two MX4 cone crushers, we are achieving performance efficiency, production capacity and ease of operation. Our production quality is excellent and with less downtime we are reducing costs. MX4 liners have extended wear life with constant product gradation and production capacity in addition to the ease of quick liner replacement. We will no doubt be ordering new Metso machines again soon," said Antonio Assini owner of Barracão. Check video <https://youtu.be/XWgSaTPBNzo>



Meeting market demand

Included in the main benefits, the company has measured a 40% increase in the production of fine materials with the new equipment and now has a production capacity of 130 thousand tons per month (of fine materials less than 5mm). This improvement is mainly attributed to the automatic adjustment settings during full production with the Metso's MX4. Barracão revenues are up by 30% through high market demand for fine material products.

The quality of Metso's after-sales service is another high point for the owner of Barracão. "Even months after purchasing the equipment, I can still rely on the company's assistance whenever necessary even helping us resolve problems caused by third parties."



Metso MX4 features driving performance

Metso's Development Engineering Manager, Paulo Barscevicius, "Designed with an aggressive crushing angle combined with a non-obstructive feed area increasing capacity and performance, the MX4 Multi-Action technology patent features a system for wear compensation, automatic adjustment settings and calibration for crusher protection. For increased safety in operation the crusher is equipped with automation and remote control. The bowl technology reduces liner replacement time once again saving costs.

Barracão Crushing and Pavers, Gaspar, Santa Catarina, Brazil operates in the aggregates market. Its plant has the capacity to produce 150,000 tons of crushed stone per month on demand-driven supply.



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Powerscreen toughen up their blow bars



Powerscreen® has been powering the industry since 1966 and is one of the world's leading providers of mobile crushing and screening equipment. As well as first class machinery, the industry giant also manufactures Powerscreen genuine parts, which are proven to enhance performance and reliability, and maximise machine uptime.

Adding to their portfolio of genuine parts, Powerscreen introduced toughened high chrome blow bars. The toughened chrome blow bars offer excellent wear resistance for abrasive applications such as recycled concrete, and are tough enough to take impact from larger feed size and also moderate steel in the feed. The biggest advantage during testing in abrasive concrete recycling applications was that there were no breakages.

Powerscreen customer, Smith Rowe used the toughened high chrome blow bars to overcome breakages in the standard high chrome ceramic bars. Using a Powerscreen Trakpactor™ 320 impact crusher, they were crushing an abrasive granite based concrete recycled application where the feed size wasn't controlled and steel (rebar) was in the feed. The application was concrete recycling (granite based rock), 24" (600mm) feed and steel in feed aprons set at 5" (125mm) and 1 3/4" (45mm).

Austin Crossingham from Smith Rowe said, "The guys in Powerscreen Mid-Atlantic recommended we tried the Powerscreen toughened chrome blow bars. We installed them for a demolition job we were crushing on. After several runs with these bars, we're seeing more wear life than the high chrome ceramic bars. If you're running concrete or asphalt demolition with a lot of tramp iron, I would highly recommend the toughened chrome blow bars."

Smith Rowe started out 35 years ago in bridge construction and over the years took on other projects such as demolition crushing and recycling asphalt. Powerscreen distributor, Powerscreen Mid-Atlantic have been providing Smith Rowe with equipment for 9 years.

Powerscreen supplies a complete range of genuine crushing and screening spare parts that are designed specifically for use with Powerscreen equipment.



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Linings are used for different reasons but mostly to prevent wear which is either caused by material impacting on a wear face or material sliding over a wear face, solutions to wear areas are varied dependant on the application.

The second most common reason to install linings is due to sticky materials, where the material being processed builds up on varying surfaces or in some hoppers causes bridging. To combat this issue SCS offers a lining material called Polyethylene which has a low co-efficient of friction which aids material flow. Polyethylene comes in varying grades and thicknesses for different applications.

Polyethylene is a low friction lining but is only as good as how it is installed and can be limited by chute / hopper design. In the photos shown 10 and 20mm thick Natural grade PE1000 is used to line a product chute and discharge chute. In the product chute SCS has introduced radiused liners as often the corners of chutes are where material most commonly builds up.

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

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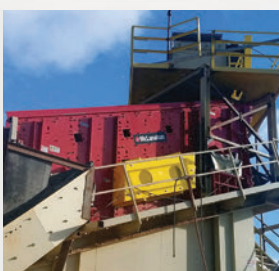


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Doyle Machinery are proud to announce that we have 2 new dealerships in the UK and Ireland. We are the official dealers for the PRONAR Trommel line for the south of England and Ireland and for BLENDPLANT for all of the UK and Ireland.

We now offer the full PRONAR Trommel line in either wheeled or tracked configurations. These machines are perfectly suited for work with many different materials - municipal waste, wood waste, compost, biomass, coal, soil, gravel, aggregates etc. Replaceable drums can be supplied according to customer's requirements with the possibility to exchange drums from other trommel manufacturers.



BLENDPLANT powder mixer blenders are fully automatic machines specifically designed for continuous blending and mixing with discharge conveyor. Applications include Soil Stabilisation to produce HBM for trench reinstatements, Recycled Aggregates, Regenerated Asphalt, Cementitious mixtures, Proprietary binders, Cement and Lime and along with water. All materials are weighed before mixing. By mixing continuously, the BLENDPLANT can produce small or large quantities and remain mixing until running out of materials and will initiate an autostop function when the material/s are depleted.



Contact us today at Doyle Machinery to see how we can support your recycling and processing needs!

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Rising above the competition



The Hyundai HX140L fitted with a Kocurek hi-rise cab proves to be a perfect fit for any waste recycling yard.

Through listening to customers feedback and understanding their requirements, Hyundai dealers, Molson have worked with Kocurek to modify a standard HX140L with a 2m hi-rise cab allowing operators on waste recycling sites to pick through material and load bins safely and efficiently.

Molson Service Director, Martyn Tucker said: "With a tried and tested base machine like the Hyundai HX140L, we knew we had a solid and reliable machine to use as a platform for this conversion". He went on to say; "We have worked with the team at Kocurek on many projects before, so we know how to achieve the best result together. Their engineers worked with us every step of the way on this, from concept to completion and will continue to provide after sales care alongside Molson".

The standard HX140L comes with a powerful and reliable Perkins 126Hp, 4-cylinder turbocharged engine. This complete with Kawasaki variable displacement, tandem axis piston pumps make this one of the leading machines in the 14t category.

With the finished machine weighing in at 17,700Kg, with a total reach of 8m (4.6m boom and 3.0m arm) and a 2m hi-rise cab, it really is a highly versatile option. Other additional specifications Molson have put on this custom built unit



include 700mm steel tracks fitted with bolt on rubber blocks to prevent damage to concreted yards. A revising fan to keep the engine running perfectly in a typically dusty environment.

For operator and working environment safety Molson have fitted a front screen guard, boom and arm check valves, white noise travel alarm, blue strobes and a green seat belt beacon in addition to the standard orange working beacon. The final addition of a rotation circuit allows full operation of the NPK DG14 (300l capacity) selector grab.


NPK are world-renowned for their high build quality throughout their attachment range and the DG14 is no different. Offering operators a smooth yet quick cycle time, but with superior build quality and low running cost.

Molson also have these machines in stock with the full conversion - contact Molson Green for details.

Ridgway adds further JCB models to its hire fleet

Shropshire-based plant hire specialist, Ridgway Rentals, has added three new JCB machines to its growing fleet of waste handling equipment.





JCB dealer, Gunn JCB, supplied a model 457 wheeled loader, a JS20MH wheeled material handler and a 560-80 Wastemaster Loadall. The deal was funded through JCB Finance and Gunn JCB will provide full warranty and service back-up nationwide through the JCB dealer network - no matter where in the UK the machine is working.

The all-new JCB 457 features a powerful new MTU diesel engine, while its CommandPlus cab delivers outstanding operator comfort and productivity.

Meanwhile, JCB's JS20MH wheeled material handler is designed to maximise productivity and safety. It produces its peak power and torque at low revs and features various maintenance-saving devices that ensure optimum uptime.

Ridgway's other new addition - the 560-80 Wastemaster Loadall - is the highest capacity machine in the JCB Loadall range. With 6,000kg of lifting capacity and its powerful EcoMax engine, the 560-80 assures high operational output.

All the new acquisitions will go straight into Ridgway Rental's nationwide fleet of specialist waste handlers which the company offers through its recently launched waste hire division.

Ridgway's waste hire fleet includes an extensive range of specialist equipment from loading shovels to reach excavators, which, unusually for the waste hire sector, the company rents out on both long and short-term contracts.

Stuart Jones, Ridgway Rentals' managing director, said: "We are investing in waste handling machinery that is not commonly available on spot hire contracts but is often required to cover breakdowns or to work on new projects."

Stuart Jones added: "We have always operated an extensive range of JCB machines in our construction equipment hire fleet, so when it came to choose new models for our waste hire division it was quickly agreed that JCB offer the robust and adaptable products that are needed in tough waste and recycling environments."

Last year Ridgway Rentals invested over £2.5 million in 26 high specification JCB excavators - including a JCB Hydradig, JS131 and JS220 tracked excavators, JS145W, JS160W and JS200W wheeled excavators and eight tonne, zero tail swing 85Z-1 midi excavators.

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Sany proves excellent reliability for Green Build Environmental

Green Build Environmental Ltd was formed by Ben and Tracy Haines. Formed in September 2013 their head office is based in St Albans, Hertfordshire. They operate two Soil Recycling Centres in Purfleet and Elsenham. The husband and wife team both have vast experience in the haulage and recycling industries having worked for several the largest players around the London region for several years. Wanting to offer a first-class service to the construction industry, they formed Green Build Environmental Ltd to initially undertake the handling of Non-Hazardous soils from sites in London and the South East before quickly developing a plant hire side to the business, to work hand in hand with their large muck shifts. From the out-set the company has aimed to offer their clients a full and comprehensive material management.



Moving from a more recognised brand to that of the relatively unknown brand of Sany, didn't deter the company owners. "The advice we were getting was to look at the emerging Chinese brands," Ben commented. "It was the combination of competent sales staff, a promise of first-class service and back-up and the robust build with proven components that swayed us to take two excavators." Taking the first 21 tonne SY215C and followed shortly by a 14 tonne SY135C.



With the completion of their new Elsenham recycling centre, the company has invested again in a new SY215C due in the main to the excellent reliability of the first machine. "Apart from an issue with the quick hitch, the machine had been faultless," Ben explained. "This made the choice of new excavator a relatively straightforward one."

Having secured multiple bulk-dig contracts in London's East End, including a 109,000m3 dig and cart package on the Isle of Dogs at the former Westferry Printworks site, Green Build Environmental rely on the build quality of the Sany excavator. Down-time and delays on projects such as this is costly with such large volumes of material requiring moving to tight programs.

"When we were looking at the first Sany we wanted something practical and reliable and that is just what we got," Ben explains "The reliability was amazing and so far, the new model is the same. We have been impressed with the upgrades to the engine and the specification, but it is still the sheer digging power that impresses us." The company's plans include the replacement of the machines on a regular basis. With the first machines nearing that age they were put up for private sale with one of Green Build's regular customers snapping the SY215C up immediately and the SY135C being sold very soon after.

Overall, Green Build Environmental Ltd have been extremely pleased with every aspect of their Sany excavators. From the initial dealings with TDL who are said to be very responsive and dedicated when it comes to servicing and warranty claims, to the reliability, robustness build quality of the machine itself and just as important to any user, the good resale value obtained with the first machines. "I would urge anyone looking for a reliable, well-built excavator to look at a Sany," Ben exclaims "They won't be disappointed!"

SSAB appoint Pegasus Profiles (Southern) Ltd in Andover as their latest Hardox® Wearparts® Centre



Brendan Perry, Wear Services Manager for Hardox Wearparts® (left) with Phil Scott, Branch Manager of Pegasus Profiles (Southern) Ltd.

Comprising of three established factory sites, the Pegasus Profiles group covers the whole of the south of England and celebrated its 40th birthday in 2015. The Andover operation has been running since 1982, has a turnover of nearly £1m and employs

9 dedicated staff. With in-house CAD facilities they offer a complete design service and can process drawings in all forms, from DXF and NC files by email, through to hand-drawn sketches and templates. They have built up many long-standing clients across varying industries and are well respected in their field. They have been buying Hardox® Wear Plate for some time now and have built up a reputation for producing high quality products with it.

We spoke with Phil Scott, Branch Manager of the Andover operation: "We are delighted to have been appointed as a Hardox Wearparts® Centre. This will allow us to grow our business into the quarrying and recycling industries where we see huge potential for Hardox® Wear Parts. We have recently worked on an exciting recycling application in Southampton where we have worked to develop a whole new range of bespoke wear parts for some MRF glass recovery equipment including Hardox®500, Hardox®600 and our overlay product Duroxite™100, so we know the potential is huge within this industry. We also work with other high profile wash plant and quarry manufacturing companies supplying Hardox wear parts on a bespoke basis for their installations."

"Over the last 12mth period we have substantially increased our usage of Hardox® Wear Plate, and our goal now for the next 12mths is to build on this even further. At this facility, we have a high def plasma machine, and two flame cutters allowing us to cut a wide range of grades and thicknesses. Our sister company in Thetford, who are also a Hardox Wearparts® Centre, give us access to laser and abrasive Water Jet cutting opportunities to provide the best solution for our clients. We also have a Lumsden power grinder here, capable of grinding Hardox® Wear Plate, if required, and we offer on-site services, such as technical support and suggested material upgrading for certain applications where an increase in life span could severely save on costs.



Brendan Perry, Wear Services Manager for Hardox Wearparts® in the UK and Ireland, was on hand to tell us a little more about the network: "The appointment of Pegasus's Andover operation strengthens the Hardox Wearparts® Network even more. It offers our end users a complete range of services to best suit their requirements and brings a localised centre for the network to the South of England. The networks goal is to provide the widest range of wear parts products, together with the best technical support, to the end user. Through this, we hope to enable all our clients to keep working with absolute minimum downtime. We have a whole range of high quality products available and this allows us to offer the best wear part for their particular application, again making sure that uptime is optimised."



Hardox Wear Parts ready for dispatch.

Brendan finished by saying "We have the highest quality wear parts on the market, together with the widest range of options available, meaning that the end user benefits from more uptime, higher profit margins and better return on investment. Our dedicated Hardox Wearparts® centres will provide everything that you need and more."



Hardox® Wear Plate being cut.

For information on Pegasus Profiles themselves, please visit www.pegasusprofiles.co.uk or call Phil Scott on 01264 358525. For more information on Hardox Wearparts® and the complete offer visit www.hardoxwearparts.com

TANA unveils a new electric high-torque waste shredder

Waste management operators made a wish - TANA made it happen. The new TANA Shark 440EM electric waste shredder offers improvements in both emissions and noise. TANA's engineers used the best components, the highest quality of work and a loving touch to create this much wanted electric version of the popular TANA Shark waste shredder.

Engineered with love!

"This machine is built with love. We use the best components, and we take pride in the quality of our work."

Tommi Vanttinen, Engineering Manager, Tana Oy.



In the electric TANA Shark waste shredder, the diesel engine is replaced by two electric motors. A machine that runs on electricity instead of diesel goes easy on both the environment and the wallet. The initial investment will be paid back in lower operating costs while supporting sustainability, a cleaner site, and a safer working environment due to zero emissions.

Reduction in noise helps operators keep officials happy - not to mention the neighbors

Especially at waste management sites near urban areas, local regulations around noise levels often apply. An electric waste shredder is 6 dB quieter than a diesel-powered one, making it easier to comply with noise regulations and keep the neighbors happy. Excessive noise is also a work safety issue. The electric TANA Shark helps create a safer work environment and more satisfied employees.

Mobility of the shredder saves time and money

The TANA Shark 440EM is a semi-trailer model, so it gives any waste management operator greater versatility. A single machine can be moved between stacks and areas within the facility, eliminating the need to move waste around and saving time and money. It can even be moved between sites, eliminating the need to purchase a shredder for every site.

Unique versatility: TANA Shark for shredding of toughest materials

Instead of purchasing multiple machines for each waste type or end product size, one TANA Shark waste shredder can replace two shredders and a screen. It is capable of shredding various materials up to the toughest of them such as mattresses and tyres. As TANA shredder enable full control over the particle size from 50 to 500 mm, it is possible to perform shredding in just one pass and save both time and costs. Processing mattresses or tyres requires high torque and good separation of metals. In addition, the end product size must be adjustable to meet the various requirements for the use of the crushed materials.

The slow-rotating TANA Shark waste shredder with its integrated rotor screen meets all these requirements. It is able to process the mentioned and many other types of waste to the correct particle size - even in one go. This reduces the volume of waste and at the same time allows recycling of the materials.

For more information please visit local Tana representative Shaun Walker at Tana Recycling Machinery UK Ltd. Or visit www.tanauk.com

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Haas Tyron 2500 Pre-Shredder – Six months on at Plevin Sheffield

In January 2018, Matpro Machinery sold a Haas Tyron 2500 industrial mobile pre-shredder to Plevin Ltd to assist the processing of recycled wood at the Sheffield facility. Six months on, Matpro went to visit Jamie Plevin – Managing Director, to see how the new machine is performing.

Plevin Ltd has over 40 years of industry experience. They specialise in the recycling of all forms of waste wood, producing a range of sustainable products suitable for the panel board industry, biomass power plants and for use within animal bedding.

Why did Plevin Sheffield require a new shredder and what drew you to the Haas Tyron 2500?

"The Hammel shredder that we had previously was nearing 10,000 hours and had the potential to start to become a costly machine to keep running. We were drawn to the Haas Tyron as we needed a minimum throughput of 60 tph which the 2500 was easily able to achieve."

Are there any particular features that were important to you?

"The large in-feed hopper of the Haas Tyron 2500 was of particular importance to fit with our operational processes. The engine telematics data were also important, as this can build a clearer picture of not only machine performance but also our process efficiencies."

How has the Haas Tyron 2500 helped improve your processes?

"The Haas produces a consistent particle size. This is very important when feeding into our Vecoplan line to produce our end products."

Would you recommend Matpro, and why?

"Yes, they are very helpful and have a great deal of operational knowledge due to them running Haas shredders in the CRJ hire fleet."

(CRJ Services are the hiring side of the CRJ/Matpro partnership www.crjservices.co.uk.)

Would you recommend the Haas Tyron 2500, and why?

"Yes, I would definitely recommend the Haas Tyron 2500, it's a reliable heavy-duty shredder with a large throughput capacity."

If you would like further information about the Haas Tyron range of machines, please click [here](#).

Interested in hiring the Haas Tyron 2500?

Contact CRJ Services on 01565 723886 or email enquiries@crjservices.co.uk.



Haas Tyron 2500 on wood at Plevin Sheffield

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Matpro Machinery Ltd, Brook House Farm, London Road, Allostock, Knutsford, Cheshire, WA16 9LU

Jack Moody Group invest in two Terex® Ecotec TDS V20 Medium Speed Shredders

Midlands based Jack Moody Group invest in two new Terex Ecotec TDS V20 medium speed shredders for their Recycling division.

Since Jack Moody founded the company in 1963, it has developed to become one of the UKs leading experts in the construction, maintenance and environment industries.



Their Recycling division works from four sites throughout the UK, specialising in Green Waste Recycling, In-Vessel Composting, Inert Recycling, Anaerobic Digestion and Biomass Fuel production.

In their 55 years of trading, the Jack Moody Group has built a strong reputation as one of the largest organic and wood recycling companies in the UK. This is highlighted by the fact they process over 750,000t and divert it from landfill each year. The latest investment in their ever-expanding fleet sees the addition of two Terex Ecotec TDS V20 medium speed shredders to process grade A, B and C wood.

Jack Moody Director, Robert Moody said: "We wanted a robust machine with great build quality that could demonstrate its versatility across a range of working requirements. We need a machine that can cope with everything we throw at it, but still mobile enough to be moved around different sites easily. We tested it on green waste, wood waste, tree stumps, and wood bark - anything it could come across as part of our fleet."

Robert went on to say: "Compared to its competition, we have found that the TDS V20 gives a nicer cut on the wood and subsequently generates a better material that customers have all been happy with."

The Terex Ecotec TDS V20 is powered by a 493HP Scania DC13 Tier 4f engine and is fitted with a tried and tested Vecoplan shredding chamber. The chamber houses two 2m long shafts, with a total of 96 turnable cutting teeth as well as cutting combs that line the shredding chamber. It also boasts a number of safety features to prevent catastrophic damage if a foreign object enters the chamber when in operation.





1. Hydrostatic drive: The main benefit of this is if a foreign object (such as a large piece of metal) enters the chamber, the shafts can stop quickly, rather than continuing to spin and cause preventable damage (as is common on direct driven shredders).
2. Intelligent tramp protection system: The shredding chamber sits on four air cushions, one positioned in each corner.

This allows the chamber to move slightly if a foreign object enters the chamber, and compress the air cushions to trigger a kill switch.

The integrity of the end product size is maintained constantly by the use of a changeable sizing basket that sits underneath the twin shafts. They are easily changed thanks to its ample access through hydraulically opening side doors. With options from 50mm – 120mm, they offer the customer a high level of versatility with one machine.

Stuart Butler, Molson Sales Manager said: "We have worked closely with Robert and the team at Jack Moody Group for over 7 years now, supplying a full range of products from excavators and loading shovels, through to shredders and screeners. With a healthy working relationship like we have here, we can listen carefully to their needs and there is trust that we will offer the right solution, not just what is available at the time."



Doyle Machinery and the ARJES VZ850DK helps to keep Laverstoke Park Farm in Pole Position!

Laverstoke Park Farm is spread over 2,500 acres of rolling Hampshire countryside near Overton. It is owned and run by ex-racing driver and Formula One World Champion Jody Scheckter. He wanted to create a farming environment that would follow nature as closely as possible, combining 21st century science, together with the most environmentally friendly farming methods available

Doyle Machinery have considerable experience in farming and using this hands-on knowledge assessed and discussed Laverstokes' needs, and thus were able to meet and exceed their requirements. A great farm needs great compost, and in order to help achieve great compost, you need cutting edge technology, exceptional productivity and reliability.

Laverstoke Park Farm's assessment process was based on thorough research and demonstrations of all the shredders currently in the market place. Having undertaken numerous demonstrations, and during Doyle Machinery's demo with the Arjes VZ850DK shredder all members of the compost operations team were suitably impressed with the productivity, product size and fuel economy of the machine. The overall benefits of the machine also significantly reduced the material handling costs due to the shredded material being directly windrowed for composting while tracking at the same time, setting the Arjes VZ850DK apart.



The Arjes VZ850DK was put through its paces which included tree stumps and logs which they had kept aside as the other machines hadn't been able to efficiently shred. Once the logs were loaded into the VZ850DK the shredder shredded them without missing a beat. The team from Doyle Machinery demonstrated the ease of which the breaker bar can be removed and refitted giving the production team the required flexibility for the seasonal green waste intake.

Boasting many superior technical benefits such as a Volvo Penta Engine 768hp engine, patented T-Cut knives, extended application specific hooks and extended conveyor (which comes as standard) allows the customers to create wind rows directly from the shredder. The operator can reverse the machine in a straight line even whilst the shredder is operational, this allows for maximum production time!

The castellated breaker bar and dual cut action of the knives shreds the material to a consistent 80mm down which is allows for an ideal balance for aeration, coupled with the ability to row directly the Arjes V850DK provides the perfect solution. This all contributed to the overall cost savings for Laverstoke! The high throughput means consistent volumes, lower operating costs, modular and mobile structure, makes the Arjes vz850dk the ideal and most cost effective shredding solution!

The success of the Arjes VZ850DK medium speed in the green waste sector is based on excellent application experience, lower running costs, fuel efficiency and reduced wear costs. The reduced wear is due to non-impact high speed damage and reversible drive system This in turn also allows for maximum uptime.

Doyle Machinery support a vast array of clients in the green waste industry and other waste sectors, all over the country. The versatility of the VZ850DK and the whole Arjes Range allows for the same quality, high productivity, cost effective and high production on wood waste, skip waste, MSW, bulky waste and even C&D. Doyle Machinery assess every waste stream, listen and understand the client's end product requirements and tailor make the ideal solution for the business.

All customers are supported the vastly experienced and knowledgeable service team, responding to any queries professionally and quickly. The service vans are fully kitted out, with parts on board to allow you the client, to experience first class back and service.

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BULKEX 2018 Shaping the Future shaping up to be best ever



Esther Halahan, Lead Tunnel Engineer, Crossrail 2; speaking at BULKEX 2018

There's just over a month to go before Shaping the Future BULKEX 2018 takes place at Eastwood Hall Nottingham from 17-18 October and it's absolutely free to attend.

In the Materials Handling Engineers Association's 80th year, BULKEX 2018 is gearing up to be its finest exhibition and conference yet. With the Year of Engineering in full swing, the MHEA's flagship event has assembled a conference programme with speakers of the highest calibre.

Representing a wide range of industries, those appearing include Atex Explosion Hazards; British Steel; Crossrail 2; Network Rail; PD Ports; HS2; Fairport Engineering Ltd; and Primary Engineer.

Visitors are encouraged to register online to make sure they have the annual conference dates firmly in their diary. With limited availability on exhibition stands, the final deadline on award entries has been extended to 14 September.

The supporting exhibition will feature more than 40 stands, with leading bulk materials handling companies and associated businesses attending. The networking opportunities with clients, end users and suppliers are made even easier by the convenient Midlands venue within easy reach of the M1 near Nottingham.

BULKEX sponsors include Atex Explosion Hazards; Rulmeca UK; ProSpare; Starclean; Flexco UK; Don Valley; Chain + Conveyor; and Greenbank; last minute opportunities may still be available.



RUD VABH-W & VCGH-S Excavator Hook for welding

Ultimate Solution for attaching to spreader bars and beams...

The RUD VABH-W & VCGH-S excavator hooks for welding offer the ultimate solution for attaching to spreader bars and beams, chain slings and for wire rope and round slings. They can also be used for lifting means with loop or oval suspension rings.

The RUD patented wear marking indicator helps highlight when the lifting equipment is no longer fit for service and needs to be replaced. Therefore, offering an ultimate safety factor to the user.

The VABH-W excavator hooks offer a safety factor of 4:1 and are operational from temperatures as low as -40° to plus 350°. The VCGH-S excavator hooks are operational from temperatures as low as -20° to plus 350°.

The RUD VABH-W & VCGH-S excavator hooks are typically attached to the buckets of wheel loaders in the quarrying industry, lifting of spreader beams in engineering, ship



building and marine industries. They are also ideal for offering a quick connection to chain slings, wire rope and polyester slings.

For more information call 01227 276 611; email Katie.crane@rud.co.uk or visit us at www.rud.co.uk

Keep it Green – MST expands their Esco wear parts coverage

MST Parts Group, based in County Durham, has strengthened their relationship with the bucket wear part manufacturer, Esco Corporation, by increasing their approved dealership territories for the UK. MST is now the approved Esco master dealer for Scotland and most of England. Esco manufactures a complete range of cast teeth, adapters, wear shrouds, cutting edges and many more wear products designed to perform in the construction, quarrying, demolition, recycling and waste applications.

To help service the UK, MST hold stocks of the distinctive green Esco wear parts in four strategically located stocking points in Aberdeen, Glasgow, Durham and Birmingham. Esco parts can also be shipped for next day delivery to most parts of mainland UK.

Above left – MST are proud to represent the premium Esco product in the UK. Above right - the Ultralok® tooth system is a two-piece, hammerless tooth system featuring an integrated locking device that increases safety, reduces inventory and simplifies replacement.

Superior Field-Proven Alloys

ESCO steel alloys have the best balance of the two main things you want in a tooth: toughness and hardness. Increased toughness helps prevent breakage, and higher hardness provides a longer service life. While some competitors may come close on one of these measures, no manufacturer can offer you both like ESCO. The chart below shows test results from a variety of tooth system manufacturers from around the world.

Data is based on lab testing of sample competitive parts and is only an indicator of actual field performance.

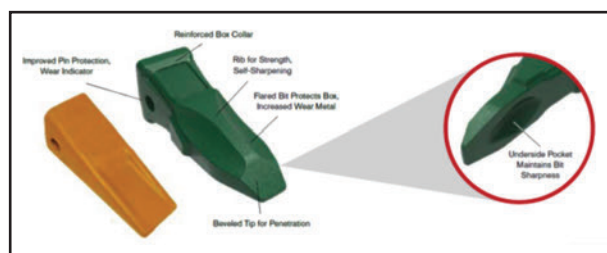
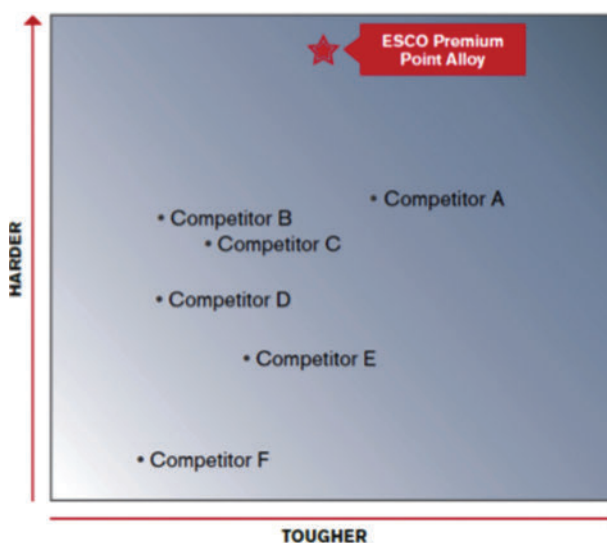
ESCO is the Leader in Design Innovation

With over 100 years of experience in developing market-leading products, ESCO has the expertise to enhance the performance of original equipment systems. Esco's innovative design modifications provide greater customer value through optimized wear life, productivity and reliability for a wide range of applications.

On-site technical measurements

To help service the Esco product range, MST employ 9 technical sales managers located across the UK, that are fully trained to be able to measure and identify bucket wear parts on site. MST's technical managers can also provide advice and support to ensure the customer is using the correct wear parts for their application.

For any Esco enquiries contact MST Parts Group on 0845 838 0706 or email sales@mstpartsgroup.com





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URGENT ASSISTANCE?
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ACE Plant & A R Demolition collaborate to produce this specialist Dust Fighter for high-level dust suppression applications

Mounted on an 18m telehandler complete with three on-board water tanks and a generator, this high-level Dust Fighter is completely self-contained. It can be moved and positioned around site freely, with no hoses or electrical cables becoming a trip hazard under-foot.

The unit is powered by an on-board generator system, meaning that once the telehandler is positioned, the operator is available for other tasks instead of having to remain in the telehandler cab.

The principle of utilising a high-reach telehandler for this is so that the water can be targeted exactly where it is required instead of firing water up from ground level. This increases the machine's efficiency, helping to keep water usage under control—reducing costs.

One of the most innovative aspects is the remote-control system. The Dust Fighter can be controlled either from on the ground or by the operator inside the cab of the demolition excavator. Making this a one-person process and maximising

personnel efficiency. By being able to control the Dust Fighter remotely this also helps reduce water usage as the unit can be oscillated, angle adjusted and turned on and off instantaneously as required.

The machine is currently on-site in Nottingham, providing Dust Suppression for the demolition of the Broadmarsh multi-storey car park. This £250million regeneration project aims to transform the area south of the city centre with improved shopping, leisure and restaurant facilities in a vibrant new environment.

Specifications:

- Telehandler Manitou MT1840 (18m)
- Dust Fighter DF7500S
- Water Capacity 3 X 400L
- Water Throw 40m
- Weight Empty: 15T



The 107-1 conveyor rises 20 feet (6 m) at its mid-section.

Cement plant overcomes remote conveyor Issue with unique power generation technology

An innovative cement manufacturer in the Midwestern U.S. has implemented a unique power solution at a remote conveyor location that lacked convenient electrical access. The patent-pending design uses the kinetic energy of the moving belt to generate enough electricity to drive an automated dust suppression system, a pneumatic belt cleaner tensioner and a series of air cannons, helping operators at the Illinois Cement Plant reduce fugitive dust and spillage, increase cargo flow efficiency and minimize labor costs for cleaning and maintenance.

The Martin® Roll Gen™ System is designed to create a self-contained mini power station that allows operators to run electrical monitoring systems, safety devices and a variety of other components. Able to be retrofitted on existing idler support structures, the generator can be employed on virtually any steel roller. The device is considered a significant step toward eliminating power production obstacles, as conveyors move into the next generation of "smart systems" that are predicted to be more sustainable and autonomous.

"Running auxiliary power can be both complicated and costly, requiring expensive labor and oversized cables to accommodate the inevitable voltage drop over long runs, as well as transformers, conduit, junction boxes and other components," commented Andrew Timmerman, Product Development Engineer at Martin Engineering. "And using even a small conventional generator to provide power introduces a different set of issues, including flammable fuels."

The Long Ride

Conveyor #107-1 is the longest outdoor conveyor system on the Illinois Cement site, running 600 feet (182 m) and discharging either onto the #107-2 stack-out conveyor or the 250-foot-long (75 meter) belt leading directly into the plant, based upon immediate production needs. It's a 30-inch wide (762 mm) mechanically-spliced belt with a 35° trough that travels at ~400 fpm (2 mps), conveying nearly 300 st/h (272 mt/h) of limestone.

Material arriving from the quarry can be either wet, dry and dusty or anything in between, depending on the season and weather. The changing work environment presented

Powered by the Roll Gen, a sensor detects material on the belt and communicates with control systems.



The Roll Gen System uses the movement of the belt to produce localized power.

challenges throughout the entire conveying system, with different weather conditions triggering various types of carryback. Cleanup was labor-intensive.

"The primary cleaner blades we had in place wore quickly, causing spillage that required us to take personnel from other areas to clean the buildup," explained Illinois Cement Maintenance Planner Brian Brandner. "We were out there cleaning or adjusting the tension to minimize spillage a few times a week. When it got really cold, we wouldn't have as many issues with dust or carryback, but the frost accumulation required us to keep the belt running at all times, which lowered the blade life and caused undue wear on the belt."



The 70-L Hurricane Air Cannon features a fan jet nozzle for wide coverage.

Phase one of the Martin Engineering solution involved placing a "smart" dust suppression system at the transfer point between the 153 and 107-1 conveyors. Phase two included an automated, pneumatically-tensioned belt cleaner and air cannon system at 107-1's discharge zone. Both components are powered by the Roll Gen System.

To manage the dust, technicians installed a Martin® Surfactant Dust System at the transfer point between 153 and 170-1 to deliver a chemically-enhanced water spray as a topical treatment for material at the point of emission. Triggered by a sensor as soon as the load enters the transfer point, the system supports dust mitigation measures already in place to minimize the labor needed for maintenance and replacement of the dust collector cartridges.

Cleaning the Belt

Close to the mid-point of the system, conveyor 107-1 begins a gradual 20-foot (6 m) rise and discharges into the transfer chute leading either to the stack-out conveyor feeding the storage area or the main conveyor entering the plant. At that transfer point, technicians installed a Martin® QC1™ Primary Cleaner XHD (extra heavy duty) tensioned with an Automated Blade System (ABS).

Connected to a small 24V DC air compressor and a control panel powered by the Roll Gen, the ABS pneumatic tensioner delivers precise monitoring and tensioning to reduce the labor typically required to maintain optimum blade pressure through manual adjustment. Equipped with sensors to confirm when the belt is running empty, the system automatically backs the blade away, minimizing unnecessary wear to both the belt and cleaner. Upon detection of an empty belt, the system is set to run for one full belt rotation to clean the surface thoroughly before pulling away. The result is consistently correct blade tension with reduced power demand on start-up, all managed without operator intervention.

"The new cleaner has been a game changer when it comes to the amount of maintenance, equipment wear and manpower for cleanup," Brandner pointed out. "The blade is no longer just scraping an empty belt, which has extended its operational life and minimized wear to the belt face and splice."

Transfer Chute Flow

While monitoring the results of the installation, Martin Engineering technicians observed that the decreased spillage resulted in a proportional increase in fines discharged down the transfer chute. Exposed to the outside environment, the chute began to form significant buildup along the sides, at the diverter gate and on the internal shelf meant to slow the flow of material. The technicians had a solution to this unexpected result, and to mitigate the buildup, they installed a Martin® Hurricane Air Cannon.

"When there's cargo flowing, the cannon fires about every ten minutes, which keeps fines from clinging to the walls and promotes proper flow," Brandner said. "If the material is extra wet and building up faster than usual, we can just go over and fire it manually at any time."

Results

The use of multiple technologies working in tandem to control material flow and prevent fugitive particles has dramatically improved the material handling system's efficiency. The modifications have helped Illinois Cement reduce labor and equipment expenses, considerably cutting the manpower needed to clean spillage along the conveyor path. The result is a cleaner, safer and more productive operation.

"The entire project has been a success, particularly in how many man-hours we save in maintenance and upkeep," Brandner concluded. "The tensioning system does a great job, and the Roll Gen puts out enough power that we're considering adding an automated secondary cleaner and a vibrating dribble chute to capture even more carryback."

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