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Global News & Information
on the Quarrying, Recycling &
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MPH Group add a McCloskey Wash Plant to their portfolio

L:R – Mark Monk, Fintan McKeever & Sean Loughran

L:R - Mary O’Gorman & Ben Frettsome

The HUB team recently attended an open day hosted by Max Innovate (MI) and McCloskey Washing Systems (MWS) which was held at the Monk Plant Hire (MPH) site.

Based in Hockering, near Norwich the MPH Group is a successful family run business that have been involved in the recycling and demolition industry for almost 20 years. MPH offer the supply of crushed concrete, brick rubble and road planing’s along with screened top soil in to the local construction market. They are also able to offer site clearance and muck away services within a 60-mile radius of Norwich.

Recently the company has invested in a unique and innovative McCloskey AggStorm™ Modular Wash Plant which has been supplied by MI. Based in Coventry, MI are a specialist provider of Aggregate Washing Plants, Water Treatment Systems, Material Processing and Handling Equipment for the Quarrying, Recycling and Waste Industries and the official dealer in England, Scotland and Wales for MWS.

Environmental compliance:

One of the key drivers for MPH to install a wash plant was the complete absence of tips in Norfolk for the disposal of inert muck away, C&D material or utility waste.

This is becoming more of a problem throughout the UK and the solution is to wash this material and produce reusable aggregates.

Two-day open event:

To coincide with the launch of the plant, MI and MWS held a two-day event to demonstrate and familiarise both new and established dealers and customers with the versatility and productivity of MWS latest products.

This highly successful event attracted more than 200 attendees who were taken on guided tours to inspect and view the plant in operation with the opportunity to discuss with McCloskey technical advisors. The event highlighted new washing and classifying equipment for both quarrying and recycling applications.



The MPH operation:

The washing system at MPH has been in operation for 3 months and processed approximately 60,000 tons of material creating clean drainage aggregates & concrete sands. Prior to this the material would have been crushed and sold as a low cost sub-base material.

MPH are currently producing 6 sellable products, 3 aggregates, 2 sands and a clay from the filter press. This material was previously taking up valuable space on site prior to the new system being installed. In addition, the customer was missing out on a significant revenue opportunity that could be realised through the introduction of an effective washing system.

The new MWS wash plant along with the water treatment plant installed at MPH has addressed both issues and resulted in the customer being able to maximise returns from their operation.



The AggStorm modular wash plant:

The unique and innovative AggStorm™ modular wash plant brings together rinsing, scrubbing & screening capabilities on a single transportable chassis. Primarily designed for the processing of construction & demolition waste, the AggStorm™ at MPH is producing three grades of 40mm, 20mm and 10mm aggregate along with pre-screening a 0/2mm and 0/5mm sand product.

The McCloskey specification included a dual power R105 scalping screen which feeds a minus 40mm into the Aggstorm™ 150 log washer to produce a clean product which is split into three aggregate fractions. The -5mm sand is processed through the Compact Sand Plant 120 creating two grades of sand.

In particular the Aggstorm™ 150 log washer has many features that make it stand out from other similar products in the market, including the variable speed drive for the shafts that allow you to alter the retention time. However, one feature that really seemed to capture the attention of all at the event was the MWS patented side door access system.

This advanced engineering breakthrough makes it the only log washer in the industry that has been designed with absolute focus on the machine operator for ease of maintenance.

Ben Frettsome - MWS Sales & Applications Manager, commented, "The system has been designed to allow the operator access to the hull from a standing platform when carrying out maintenance tasks such as the removal of rope, rags or wire from the shafts and blades which is a common occurrence within this sector. Previously operators would be required to lay on top of the hull face down to carry out this process, which posed issues both with health & safety, along with a much longer downtime for the operator."



The wash plant at MPH also includes a full water management system incorporating a 9-metre diameter low-level rake thickener along with a filter press. This enables the customer to recycle more than 95% of the water used in the washing system. For this application MPH are utilising a 1500mm x 1500mm x 130 plate filter press for the slurry dehydration which is produced from the rake thickener.

The filter press produces a dry solid 'cake' with a residual moisture content of below 22% which allows for this to be transported immediately. This is in complete comparison to other methods such as centrifuges or traditional tailings ponds which require multiple handling and days to dry. This is also a huge benefit as it allows a separate revenue stream to be created through the sale of this 'by-product' to several local industries.

Mark Monk -Director at Monk Plant Hire, commented, "At a time when operators are focused more than ever on maximising efficiencies within their sand and aggregate processing operations, our plant at MPH provides evidence that there are significant opportunities to be taken advantage of with the processing of recycled waste."



The over beam filter press:

One element of the plant that was specified by MI was a Fraccaroli & Balzam overhead beam filter press.

Fintan McKeever - MD at Max Innovate gave us the facts. "The key thing about this press is that the overhead beams sit to the side which allows full access to everything on the top. Unlike traditional overhead beams where everything sits in the middle these include a chain drive mechanism and hooks on the chains to open the plates. Eventually all those hooks and the chain wear out and if you get a press 'blow out' sludge will cover all the mechanism making it very hard to access and maintain everything. On our press maintenance is super easy as everything sits to the side and the MPH press also features a robot that runs down the plates.

Fintan, continued, "Operationally the robot does three things – it opens the plates, five at a time and shakes them, which other overhead beams don't do and also operates the automatic washing system which washes from the top down. This is completely different as alternate systems wash from the bottom up.

"It's a very fast system and the only press in the country that has a completely flush floor so when the 'bomb doors' close up it's completely flush so you can actually walk through the plates making it very easy to change the filter cloths; whereas

on other presses it's very difficult to access everything. The whole design philosophy of this plant is making everything as easy as possible, easy to access, easy to maintain, easy to service which has been a total success."

Fintan, added, "The wash plant provides Monk Plant Hire with clean in-specification material that they could not achieve by dry screening alone; this will increase their sales and grow their customer base.

"The complete processing system received lots of positive feedback with many visitors impressed with the maximum access to serviceable areas and the quality of the product produced."



Fintan concluded, "The tours impressed upon the visitors the attention to detail and pride that everyone at McCloskey and Max Innovate takes in what we do, and it made me proud to be part of such a market-leading company. As I have come to expect from

the team at MWS, the open day speaks volumes for the company's ethos, as well as to serve as an indicator for future growth plans.

"It's a system that is also very competitive on price in the UK market. It reflects the philosophy of MWS when they entered the market it was driven by 'lets make the plant easy to live with', making it easier for the operator."

Sean Loughran - McCloskey Washing Systems Director, concluded, "We are deeply appreciative for the opportunity MPH gave us to demonstrate our equipment at their site in March. The perfect weather, combined with this perfect venue, made the event a resounding success on every level. We extend our sincere thanks to them, as well as to all those who joined us, we were delighted with the turnout."



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Welcome to issue 56

Well that's bauma over and what a show that was!

Next in the firing line is the new boy on the block – Lets Recycle Live. By the time you read this it will be finished, but we will publish a complete review in our July edition. It's always exciting when a show looms on the horizon as it carries with it many expectations. At least we can experience live recycling demonstrations which have never really been available at the NEC.

In June of course is the Plantworx show which will be held at a new venue in Peterborough, let's hope it isn't the muddy fiasco of last time!

And lastly two days of the RWM show at the NEC in September. Interesting times.

John Edwards

Editor



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High Impact Recycling for Prichard's

Multi-faceted contractor Prichard's of South Wales are getting the best from their new Terex Finlay I-120RS impact crusher.

As one of the latest additions to the fleet sourced from Terex Finlay dealer Molson Finlay, the I-120RS impact crusher has already settled in nicely at its new home at the Project Yellow site in Pontyclun, one of four Prichard recycling facilities, with this being the first of this model ever used in a recycled aggregate application in the UK.

With their head office in the historic town of Llantrisant in the county borough of Rhondda Cynon Taf, near Glamorgan in South Wales, Prichard's are a business that is certainly looking to the future. As one of the leading providers of construction and support services throughout Wales, the Midlands and the South West and with a diverse range of specialist divisions, including demolition and civil engineering contracting, plant hire, transport, skip hire and recycling, Prichard's are held in high regard as a trusted supplier for many.

Project Yellow is Prichard's primary base for the recycling of aggregate materials, and soil recovery for residential and commercial use, all following the WRAP QP and the principles of CL:aire DowCoP, as relevant. However, they are not limited to recycled material as they can also supply virgin aggregates in a wide range of sizes as well as an innovative 'Eco-sand' material that is produced from recovered glass, again in compliance with WRAP QP.

The Terex Finlay I-120RS impact crusher is more commonly found working in quarry applications with a more consistent feed material and lower likelihood of foreign objects and contaminants as received wisdom is that impact crushers working in recycling applications generate high wear rates that make the cost of production simply too high to consider, often leading to a jaw crusher solution instead.

However, the Terex Finlay I-120RS is a machine to challenge that logic thanks to numerous design features from the serial innovators at the Terex Finlay factory in Omagh, Northern Ireland. This new generation impact crusher has been re-designed from the ground up, with a focus on improved material flow and production capabilities for a wide range of applications. Featuring the Terex CR038 impact chamber with direct drive and advanced electronic control system the machine provides operators with high material reduction ratios and produces a consistent product shape.





A key component of the machine is the on-board innovative quick detach 3.66m x 1.53m (12' x 5') two deck screen. For applications not requiring recirculation of materials for further processing or stockpiling the complete screening and recirculating system can be quickly detached from the machine. The high productivity, ease of maintenance and operation makes the machine an ideal solution for large scale producers and contract crushing operators.

Prichard's Project Yellow supervisor, Darren Simpson, said: "We have had great feedback from customers about the quality of the material available since the machine was installed by Gareth and the Molson Finlay team. Some of the team were

skeptical about how an impact crusher would cope with the tough demands we make of our machinery – especially at the Project Yellow site – with the volume of production required, any new machines are quickly put through their paces".

A key reason for the consistency of material size achieved by the I-120RS is its material re-circulation system. This system takes oversized material separated by the two-deck screen fitted to the main conveyor and feeds it directly back into the feed hopper to be re-processed. In addition, the fully hydraulic apron setting assist allows the operator to change the speed of the feed apron to better control the volume of material in the impact chamber.



Another feature of the I-120RS is the heavy-duty vibrating feeder (VGF) with integrated prescreen. This removes material below the size allowed by the prescreen, preventing it entering the impact chamber and causing unnecessary wear. This prescreened material is then stockpiled on a discharge belt to the side of the machine, however this can be removed and the material will simply be dropped down to the main conveyor where it is discharged with the rest of the processed material.

Prichard's Managing Director, Tom Prichard said: "The I-120RS gives us the ability to produce a wide range of popular recycled fill products such as Type-1 and 6F2 with great material consistency. We have all been impressed with its throughput capacity, whilst being able to deal with difficult material such as re-bar".

When talking about the relationship with Molson Finlay, Tom went on to explain: "For us, when choosing a new machine, we look at every angle. The machine has to be able to do the right job and offer good value for money, but we also look at the after sales support from the dealer as a key factor. We have always received a very high level of service from the Molson Finlay team and that is a big reason why we keep coming back".

Prichard's are a long-standing customer of Molson Finlay, with this I-120RS being the latest in a long line of Terex Finlay machines supplied by Molson Finlay's Gareth Johnson. The Project Yellow site also uses two Terex Finlay 883+ heavy duty screeners and a 694+ inclined screener, key components of the recycled aggregate production process.

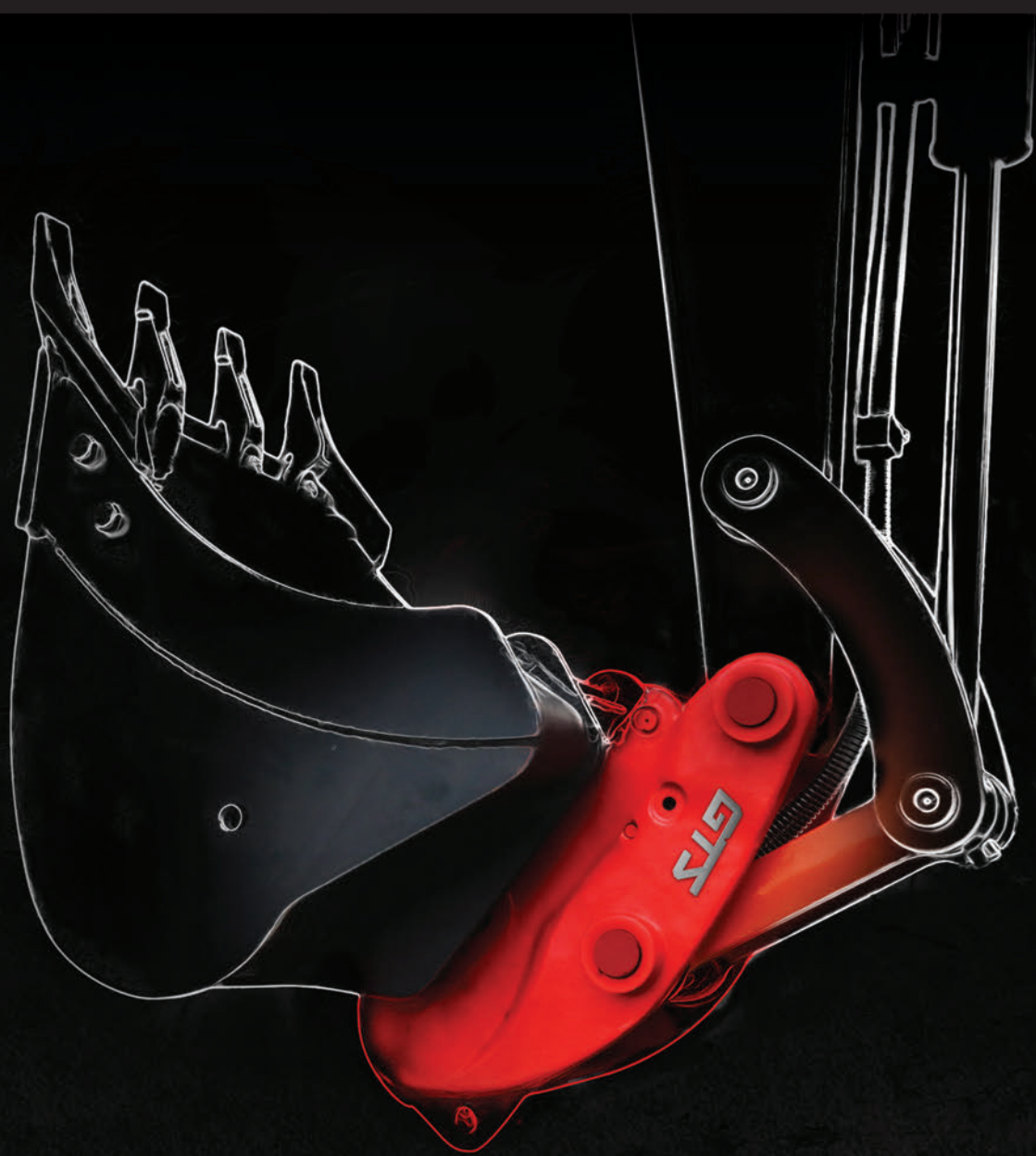
Molson Finlay's Gareth Johnson said; "Prichard's are a valued customer of Molson Finlay and I am delighted that the machine is



already proving its worth on site. It's producing a high-value end product and its versatility; speed of production and efficiency make it an important addition to Prichard's fleet.

"When we have open and honest conversations with customers about what they want to achieve, we are in a stronger position to help them by sharing our experience, knowledge and insights of the latest technological developments to help them achieve their goals. Tom and his team have always taken this approach and I believe this is a reason why we have been able to be such a big part of their supply chain".





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Mario Scutti (centre) and his team of SCUTTI Srl at bauma



Lee Palmer, Managing Director - Earthmoving Division of Liebherr UK



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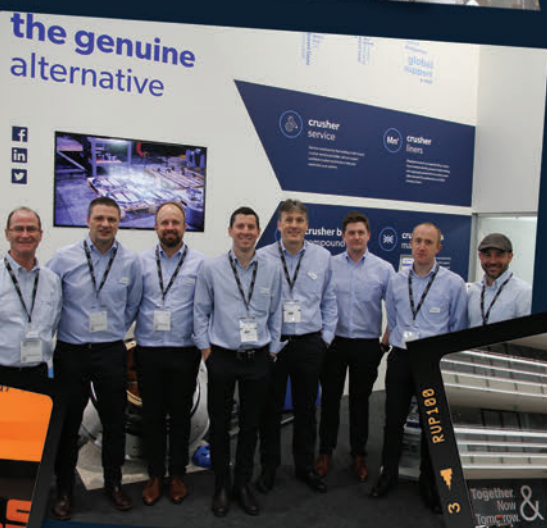
Tony Convery, Chairman
& Founder with Brendan
McGurgan, Group
Managing Director at the
launch of the CDE
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Terex Trucks at bauma'19



Mark Crooks and Michael Dunne
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Doosan first to use 5G for worldwide 'TeleOperation'

In what was one of the highlights of the Bauma 2019 exhibition in Munich in Germany, Doosan is the first manufacturer to use 5G technology for worldwide 'TeleOperation' of construction machines.

Doosan has coined the term TeleOperation to describe the operation of construction equipment from a remote station. At Bauma, remote really means remote - operating a Doosan DX380LC-5 40 tonne crawler excavator located over 8500 km away in Incheon in South Korea from an operator's booth on the Bauma stand in Munich.

'Powered by Innovation'

TeleOperation forms part of Doosan's exciting stand display at Bauma under the banner of 'Powered by Innovation' and has been co-developed with LG U+, the South Korean telecommunications and data services company. The TeleOperation demonstration on the Doosan stand is the first to remotely control a machine across such a large distance between locations which have a time difference of eight hours, using 5G telecommunications technology.

For TeleOperation to function properly, it is essential to deliver live video streaming at the operator's station in a reliable way that minimizes time lag in the system for the operator. With its ultrareliability and low latency (signal delay), the new 5G network overcomes these issues in the Doosan system, providing 10 times faster bandwidth and 10 times lower latency than the 4G network.



New 5G TeleOperation Open to Stand Visitors

The exciting 5G TeleOperation system was demonstrated throughout the duration of the show, with set times every day to give visitors to the Doosan stand an opportunity to try the system out for themselves.

Because the LG U+ platform provides a 5G connection that is 5-10 times faster than current 4G systems, the operator has the same real time control of the remote excavator and with the same high accuracy. 3D machine guidance, real time diagnostics and a full gauge display are all available at the Teleoperation control booth.

Whilst it can be used for general earthmoving applications, the new Teleoperation system is ideal for operating excavators in dangerous applications such as industrial waste disposal, involving hazardous, toxic or radioactive substances. It is also useful for work on collapsing waste piles and in areas where there are buried mines and other munitions. Safety can be further increased via the zoning and area limitation functions available through the Doosan TeleOperation system.

Special features incorporated include a low-latency video transmission module with fast video transfer (with encoding and decoding), an important factor in reducing the time delay. LG U+ has also introduced new modules providing low latency image processing to further minimize the time delay. Another factor in creating more effective remote control is the use of Doosan's innovative electrohydraulic technology in the DX380LC-5 excavator.

The DX380LC-5 excavator being remotely controlled at Bauma is still a standard machine, which allows Doosan to guarantee the performance and the compatibility of third party attachments and other equipment installed on the excavator. It is also possible to carry out both normal operation and TeleOperation with same machine.



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CASE Construction Equipment unveils the world's first methane-powered construction vehicle at bauma 2019

CASE creates a breakthrough in sustainable construction as it reveals the world's first wheel loader which runs entirely on alternative and renewable fuel.

ProjectTETRA, CASE's methane-powered wheel loader concept, demonstrates a clear pathway to a renewable future for construction equipment, shifting away from a reliance on the traditional diesel engine and addressing one of the world's most pressing issues – environmental sustainability – with a pragmatic solution for the construction industry.

Achieving the virtuous cycle

ProjectTETRA reimagines wheel loader design, marking a clear departure from anything seen in construction equipment to date.

The concept includes a methane-powered engine, specially designed and developed by sister brand FPT Industrial for construction applications. With a maximum 230hp, it delivers the same power and torque as its equivalent diesel engine found in the CASE 821G wheel loader.

It's powered by biomethane which is produced in biodigesters from waste products such as waste food, wood chippings and animal waste. With carbon-neutral production, biomethane provides a closed-loop, virtuous energy cycle, converting

waste into useful energy.

"We've been researching sustainable fuel sources for our construction machinery for many years," explains Carl Gustaf Goränsson, President of Construction. "Biomethane was the most logical choice for the wheel loader. We needed a fuel that could provide the drive and power that our customers demand. The fuel needed to be readily available, easy to refuel and power through a full day of work. We wouldn't compromise on performance, so we set our designers quite a challenge.

"We were fortunate to work very closely with sister brand FPT Industrial, pioneers in developing sustainably-fuelled powertrains, with over 40,000 gas-powered engines produced to date. This technology is already tried and tested in other CNH Industrial brands as there are some 28,000 methane-powered IVECO trucks and IVECO BUS vehicles on the roads today."

ProjectTETRA not only uses a sustainable energy source but also benefits the environment in other ways. The methane-powered wheel loader concept produces 95% less CO₂ when running on biomethane, 90% less nitrogen dioxides and 99% lower particulate matter than a diesel-powered equivalent. It delivers an 80% reduction in overall emissions and also achieves a 50% reduction in drive-by noise levels. >





Powered on the job

"We don't believe in developing technology for technology's sake," continues Goransson. "Our innovations must solve real-world challenges in a simple and straightforward way. ProjectTETRA is suited to do so in common job sites; agricultural environments, waste handling centres and recycling businesses are perfect locations for a biogas production plant, providing a free source of fuel for the machines working on site."

"But biomethane isn't the only option," explains Goransson. "ProjectTETRA will run on network methane too, providing access to lower emissions than diesel, even if onsite biomethane production is not an option. This is important as we see changing regulations in some regions."

Innovative design with the operator at the centre

Although sustainability was a huge factor in ProjectTETRA's definition, the design team wanted to showcase the very best of CASE's practical innovation, with the focus firmly on the operator and productivity.

"Automation and digitisation were key drivers in our design process," reveals David Wilkie, Director of the CNH Industrial Design Centre. "We are a future-focused business, and these are two of our key strategic pillars. These elements are the drivers for safer and more productive machines. ProjectTETRA was a blank sheet so we could be as creative as possible in including the very latest technologies that matter."

A cab with a winning combination of safety and comfort

ProjectTETRA's cab features wraparound glazing and a high visibility roof panel, increasing the total glazed area by 16% when compared to a standard wheel loader.

All-around visibility is achieved with the use of viewing cameras instead of wing mirrors. These are automatically linked to the direction of the machine and viewed on the A-pillar mounted displays.



The uncluttered design means all controls are accessed through ergonomic joysticks and an integrated, armrest-mounted, colour touchscreen monitor, which adds to the feeling of space and a panoramic view.

The new cossetting seat automatically extends and pivots to facilitate entry upon door opening, returning to the operating position immediately after the operator is seated, which is an industry first.

With lumbar support, weight-compensated suspension and active heating and cooling systems it ensures operator comfort throughout the working shift, reducing operator fatigue.

A partnership in conceptual design

An exclusive partnership with Michelin led to the development of innovative airless concept tyres for ProjectTETRA. Constructed from pure rubber and a patented composite material in a honeycomb spoke design, the



tyre/wheel fusion also features built-in suspension.

The lightweight and robust structure has been designed to withstand the extreme conditions present in construction environments. In addition, the airless tyres reduce overall machine weight and a large footprint delivers low contact pressure. Advanced connectivity is achieved with integrated sensors, providing a stream of real-time data to both the operator and the control room. When active, the integrated sidewall lights are illuminated and also function as an additional safety feature.

Unrivalled control

ProjectTETRA can be controlled at the touch of a button through the armrest-mounted operating hub. Operators can access all key operating parameters and functionality including:

- Face scan to activate start-up sequence
- Bucket load-fill assist screen which displays target load, current bucket load and remaining load
- Jobsite map, which tracks incoming trucks, indicates the fastest route to the selected work area and displays general site information
- Weather screens showing real-time weather reports
- Lighting parameters, Bluetooth telephone, heating and ventilation and music controls
- Access to secondary machine parameters, machine settings and additional submenus

The operator can also swipe the operating screen to the A-pillar screens. The A-pillar screens contain further machine monitoring details and 'at a glance' performance indicators:

- Feeds from all viewing cameras
- Operating parameters including machine speed, engine speed, fuel level, engine and oil temperature, selected gear, engine hours and time

All machine data is automatically communicated to the control centre, allowing for on-the-job updates and optimisation to increase machine efficiency.

Safety first design

ProjectTETRA employs the latest biometric technology to ensure the safety and comfort of the operator. Before the operator reaches the machine, it is ready for operation. Remote retinal scanning, accessed through any mobile device, activates heating and cooling to adjust the cab to the optimal operating temperature.

Biometric facial recognition technology is integrated into the access and start-up sequences to ensure that only fully-qualified operators have access to the machine.

As a demonstration of CASE's development into autonomous technology, ProjectTETRA includes integrated obstacle detection technology, alerting the driver to any possible hazards on site.

Furthermore, this concept is compatible with the complete range of buckets and was fitted with high-tip and quarry versions from Leonardi Benne during the initial testing activities.

Combining CASE's heritage with its innovative future

"The most striking thing about ProjectTETRA is its design. It expands the pre-conceived conception of what a wheel loader should look like," explains Wilkie. "We took inspiration from our emblem, the American Bald Eagle. You'll see bird-like features within the design, from the integrated cab wings and the commanding stance of the eagle's head and beak within the rear engine cover.

"As the name suggests," Wilkie continues, "ProjectTETRA contains elements relating to the structure of methane too. The tetrahedral structure of the methane molecule is expressed in the name but also in the design. And we have finished the machine in our custom-made metallic fleck CASE power-tan paint finish. A nod to the heritage of our brand but with a strong link to our innovative and sustainable future."

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*Patented: GB 2552042, WO 2018/108605



World's first all-in-one wet processing system unveiled at bauma

CDE has launched the Combo in a move set to revolutionise the wet processing industry.

The patented Combo™ - the world's first all-in-one wet processing plant - was unveiled at bauma in Munich, the leading trade fair for the construction machinery and materials industries.

CDE which has a long history of ground-breaking innovation and holds more patents than anyone else in the sector brought the pioneering M2500 to the market almost a decade ago.

The Combo™ encompasses five processes - feeding, sizing, sand washing, stockpiling and complete integrated water management which is a first for the industry and an important innovation to address a challenge faced by all customers of wet processing systems.

Sean Kerr, Chief Operating Officer, CDE said: "The Combo™ is no ordinary machine but rather a technological response to the challenges faced by materials producers. It has been designed with a focus on transferring greater reliability and efficiency benefits to customers. Offering a turnkey solution that delivers unrivalled control of in-spec washed products from a wide range of feed materials the Combo™ can be used in the construction, C&D waste recycling, industrial sands, mining and environmental sectors."

In brief, the Combo™ creates enhanced reliability and efficiency offering rapid onsite set-up, reduced start-up costs, the ability to process a wide range of feed materials (both natural sand and crushed rock), lower power consumption, a smaller footprint and unrivalled accessibility for maintenance.

Pre-tested and pre-wired before dispatch, the Combo™ arrives on-site in a single unit ready to plug and play either as a standalone plant or as part of a larger turnkey solution. The plant is built for rapid assembly and set up and can start processing material within days of arrival onsite.

Also, as it sits on its own chassis, the Combo™ requires minimal civils and pipework so operators can now easily relocate their plant across sites or to remote locations. Its smaller footprint also makes it ideal for tight quarries in urban settings.

With all essential processes being housed onto one chassis, the Combo™ system operates as one interconnected and pre-assembled unit which incorporates an integrated control panel with one single point of operation.

Significantly, the Combo™ wet processing system can produce up to two in-spec products from natural sand or crushed rock turning what is often considered a waste by-product into a product that adds value to the business.

In addition, the new technology allows customers almost total independence of water supply with up to 90% of process water recycled for immediate re-use in the system - ideal for jurisdictions with limited resources or those with existing environmental or impending environmental legislation.

A customer-focused solution, the Combo™ has been designed for single-operator use and unrivalled ease-of-access for routine maintenance with its patented swivel access to the pump leading to maximum production and prolonged life.

Lower power consumption compared to existing technology available on the market means customers can process a higher volume of materials with reduced operating costs generating exceptional return on investment.

Kevin Valletly, Director of Engineering at CDE, said: "At CDE we are unlocking a New World of Resource and driving alternatives for sand production. Global demand for construction sand is more than 15 billion tonnes per year.

Sand accounts for 35% of concrete which is used in the building construction industry. Large parts of the world face increasing demand for infrastructure and civil projects in the face of diminishing natural resources.

"Our sustainable technology producing washed and graded manufactured sand is helping supplement natural sand which is a finite resource and increasing in cost. By utilising normally low-value crusher fines for sand production we can extend the life of natural resources and add huge commercial value to our customers' enterprises. The Combo™ requires a small supply of fresh water compared with traditional systems which typically consume 10-15 times more water allowing its deployment in quarries and urban areas not previously known for sand production. In addition, sand can be produced closer to where concrete is required resulting in significant cost savings in the transport of aggregates. The Combo™ is industry leading technology designed to unlock a New World of Resource essential to protect our environment and build the world of the future."



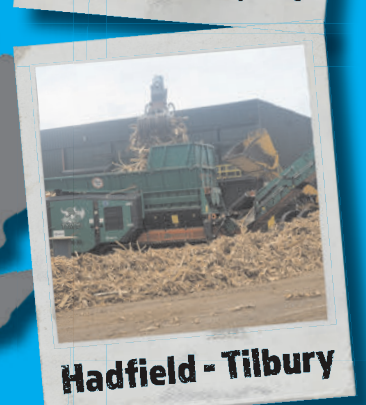
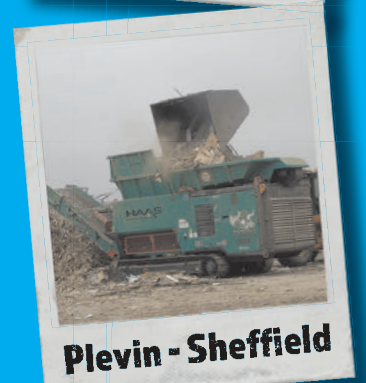
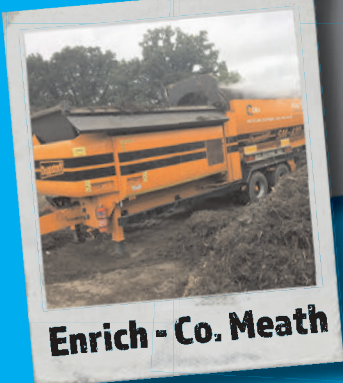
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The HUB-4 team recently visited Lindner at their recent demonstration close to Munich airport...

The future of waste wood processing for combustion purposes:

Lindner showcases highly effective system solutions for efficient fuel production in line with 17225-1

The correct recovery of waste wood is a significant step towards protecting the environment. What's more, with their highly productive processing technologies, Lindner can transform this into a profitable fuel. True to their principle of making the most of waste, the company has developed mobile system solutions that were showcased at Lindner's Waste Wood Days 2019.

High throughput, minimum fines, low operating costs – these were the key factors identified for profitable waste wood processing for combustion purposes that the Austrian shredding expert Lindner Recyclingtech then used to develop their signature mobile system solutions. The company now offers the highly configurable, tried-and-tested Urraco and Miura specialised shredder series that can either be operated as a one-step solution or be combined with a Lindner Zeta Star screen to produce optimum output in line with ISO 17225-1 at unparalleled efficiency.

P100 F05 one step: minimum effort, maximum reward

The newly developed and patented cutting systems of the Urraco 75 and Miura series transform a mobile Lindner shredder into a one-stop system solution for the first time. The two shafts' optimised geometry and the special breaker bar make it possible to process waste wood in a single step to P100 particles with a fines content of less than 4%. The system combines cutting and crushing in the low speed range, making further processing obsolete.

The mobile shredder Miura 1500 produces P100 F05 final grain in just one step with a throughput of 20-25 metric tons per hour.



Lindner's Waste Wood Days 2019:





With their highly productive processing technologies, Lindner aims to transform waste wood into a profitable fuel.

The mobile hydraulics – likewise a new feature and developed in cooperation with Bosch-Rexroth – ensure a constant throughput of up to 25 metric tons per hour at up to 30% fuel savings compared to conventional solutions. This high performance is made possible thanks to the extreme responsiveness of the 100% electronically controlled system that guarantees the machine's optimum operation round the clock by proactively adapting to output requirements. Needless to say, Lindner has of course included a mechanical non-shreddable detection system with automatic shaft release for easy removal of foreign objects. This protects the shafts and the drive unit, ensuring a long service life and high productivity.

P63 F05 two steps: old wood, fine product

The combination of a Urraco 75 or Miura 1500 shredder and the Zeta Star 75 F2 star screen means that clean P63 particles can be produced at a throughput of up to 20 metric tons per hour. The perfect synergy of shredder and screen makes this solution a system to reckon with. Efficient production at its best is ensured by the eradication of further screening thanks to an ideal output with under 5% fines. A system that makes loss of valuable material a thing of the past.



The combination of a Urraco 75 shredder and the Zeta Star 75 F2 DK star screen means that clean P63 particles can be produced at a throughput of up to 20 metric tons per hour.

With the variable star speed and the hydraulically adjustable screen deck angle, this system can be adapted to varying input qualities at the touch of a button and yields precise and classifiable output at all times. In addition, the hydraulic adjustability of the return conveyor ensures minimum handling effort. Alternatively, oversized particles from the first shredding stage can be separated as a second final fraction.

P100 F05 two steps: when you need that little extra

The combination of Lindner Urraco 95 DK and Zeta Star 95 F2 DK is designed for particularly high throughputs of over 50 metric tons per hour. The perfect match of shredder and screen ensures constant P100 F05 output without material loss thanks to the fines being screened and separated. The shredder's unbelievable performance and torque of 460,000 newton metres make it easy to process even difficult materials such as railway sleepers with maximum efficiency. Here, too, adapting to changing input qualities is made easy thanks to the self-cleaning screening stars' variable speed, the particularly low-wear high-performance plastics they are made of and the hydraulically adjustable screen deck angle.



The combination of Lindner Urraco 95 DK and Zeta Star 95 F2 DK is designed for particularly high throughputs of over 50 metric tons per hour. The perfect match of shredder and screen ensures constant P100 F05 output.

Experience the Progress.



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LIEBHERR

CMS Cepcor® receive accolades for a second Queens Award



For the second time in the history of the company CMS Cepcor® have received a Queens Award. On this occasion the company have received the Queen's Award for Enterprise: International Trade 2019, for outstanding growth in overseas sales over the last three years.

This award is due to significant sales increases in Europe, Latin America and Russia where the company has had exceptional sales growth.

The success is due to the hard work of their winning team, significant growth in spare part stock inventory and continual development of a product range to serve both modern and classic crushers. Equally spread throughout the Mining and Quarrying sectors CMS Cepcor® have, through prioritising service and premium quality products, continued to build trust and confidence in the business, which is located at Coalville, UK.

Originally trading as Crusher Manganese Steels Limited and founded some 30-years ago the company now employ approaching 100 people and have enjoyed double-digit growth for each of the last three years.

Over the last six years the company has invested millions of pounds in their Coalville sites including building a new global headquarters and the opening of a 3,000m² technical centre.

Equipped with state-of-the-art CNC machines this Lloyds Register ISO9001:2015 certified facility has increased in-house quality control and help maximise service performance. Furthermore, a new 6,000m² global parts centre adjacent to their technical centre is due to open during Q2 of 2019.

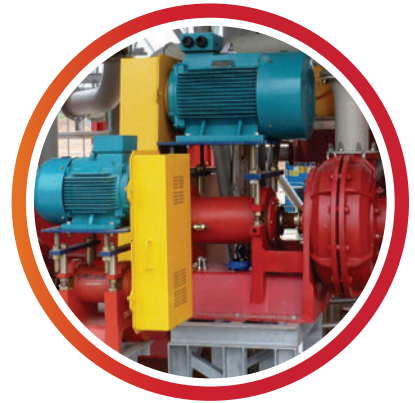
Exporting to 120+ countries CMS Cepcor® was previously awarded The Queen's Award for Enterprise : International Trade 2012 for outstanding export sales.

Today CMS Cepcor® is Europe's leading aftermarket manufacturer and supplier of crusher spare parts, mining grade crusher liners and crusher service to mining, aggregate production and associated crushing industries globally.

This prestigious award will significantly increase their reputation within the global markets that they serve.

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mclanahan.com



Aggregate Industries helps customer win tender with crack-resisting asphalt

Aggregate Industries' asphalt division has helped one of its customers secure, and deliver on, a new contract.

The project entailed overlaying leading two-person home delivery expert Arrow XL's existing concrete trailer yard in Wigan with a flexible surface course, creating a secure car park for both staff and visitors. Invited to tender for the business were several contractors, including civil engineering firm, James Callaghan Sons & Co Ltd (Calco).

The project requirements initially called for 40mm of stone mastic asphalt (SMA) to be used in order to keep costs controlled. However, Calco had concerns about a 40mm layer of SMA being a sufficient depth to avoid any potential delamination between the concrete and the newly laid surfacing. The firm therefore consulted with Aggregate Industries' specialist asphalt division, which was able to use its expertise to identify a solution that would satisfy the client's budget for the completed works, whilst also delivering a quality finish.

Reviewing the project requirements in detail, the asphalt team concluded that Aggregate Industries' SuperFlex, a highly durable surface course, would be the best option to reduce the risk of reflective cracking and provide the high levels of durability required for a busy car park.

Calco refined the proposal of works to also include using a spray jet paving machine which would achieve a better bond via a continuous application of a hot, bituminous tack coat as the SuperFlex was laid in a single layer straight onto the Concrete.

Despite this fully tailored approach resulting in additional costs being forecast, the contract was awarded to Calco due to the quality and reliability of the finished surface meeting the high expectations of the client; a result that bears testament to the shared technical expertise of both Calco and Aggregate Industries' asphalt division.

Works commenced in February 2018, with Aggregate Industries delivering 770 tonnes of SuperFlex AC10 surface course to site on schedule, with all particular logistical requests by Calco happily accommodated. The project was completed in two phases and handed over in April 2018.



Andrew Callaghan, Director at Calco comments: "The technical support and advice we received at tender stage from Aggregate Industries was excellent and proved instrumental in securing the job. From our client's perspective, we had looked at potential problems and, in collaboration with Aggregate Industries, produced an improved specification which was still within the budgets of the project.

"I visited site recently and our client is very pleased with how the surface is performing and all the feedback has been very positive. We are currently discussing undertaking additional works on site and I would have no hesitation in using SuperFlex on future projects of a similar nature."

Charlotte O'Connell, Territory Sales Manager at Aggregate Industries, adds: "SuperFlex is an ideal material when overlaying concrete due to its enhanced elastic properties provided by the poly-modified binder. SuperFlex also gives great results in the highway sector across the country, and is a product we are incredibly proud of.

"Within the Asphalt team, we are always at the ready to provide hands-on product advice and technical expertise in any which way we can. In this case, we're delighted to have helped one of our valued customers win new business and we can certainly say with pride that SuperFlex helped them secure the tender."

For further information about Aggregate Industries, visit www.aggregate.com.



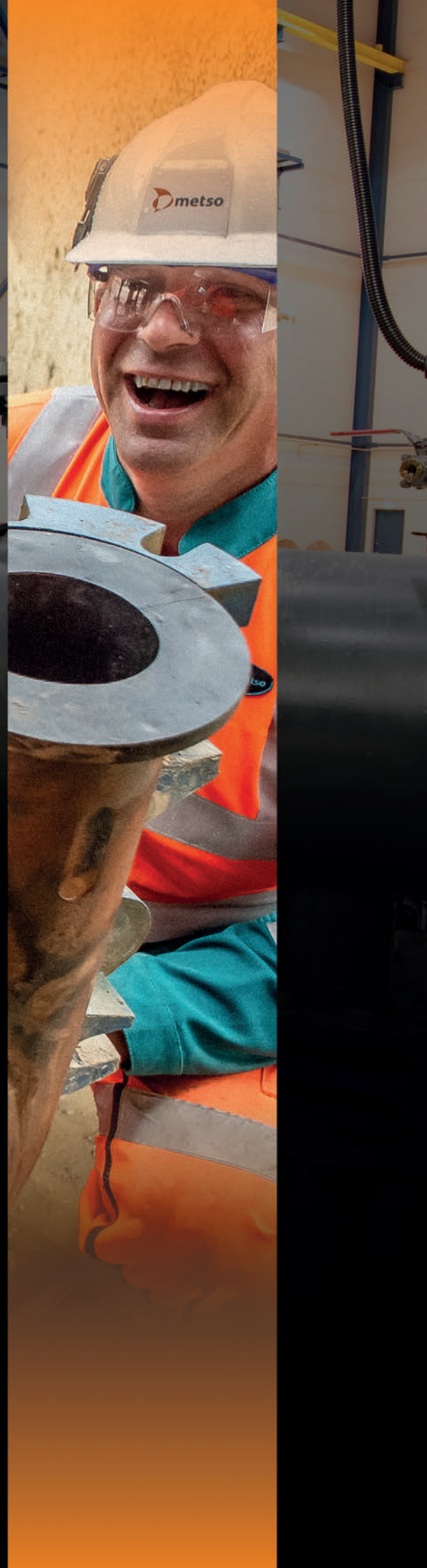
Edge Innovate – winners of Queen's Award for International Trade

EDGE Innovate has been honoured with a Queen's Award for Enterprise for International Trade. EDGE Innovate joins an elite group of organisations to be recognised with a prestigious Queen's Award for Enterprise. Now in it's 53rd year, the Queen's Awards for Enterprise are the most prestigious business awards in the UK.

Established in 2008, the Dungannon based company employs almost 200 people directly. The company develops, manufactures, markets and exports sophisticated technologies for shredding, stacking, screening and sorting primary and secondary raw materials in production processes and recycling. The family run business has seen overseas earnings grow by 68% during a three-year period with top markets including the United States, Australia, France, Canada and Japan. They have been able to diversify their product range to cope with economic fluctuations and demonstrated exceptional levels of corporate social responsibility with particular emphasis on involving partners in the reinvestment into Research and Development to introduce more advanced technology to suit differing legislation. The company wins the Queen's Award for International Trade for Outstanding Short Term Growth in overseas sales over the last three years.

Darragh Cullen, EDGE Innovate Manager Director commenting on the recent success; 'We are honoured and excited to have received the Queens Award for Enterprise. This renowned accolade is the highest award available to us. It is the result of years of dedication from a team of high performing people right across all our business functions. Their dedication and commitment is second to none. Every member of our team has been instrumental in developing a world class business delivering world class products and services right across the globe. Our distribution partners of which there are now many and in particular those who have worked so closely with us from the very beginning have been a huge part of our successful story and the winning of this coveted award. This story is only beginning, however. We seek to further improve, expand and fulfil the needs of our people and our customers'.

EDGE Innovate currently export both material handling and recycling equipment to almost 60 unique countries. EDGE has experienced exceptional growth with exports rising from 85% in 2016 to 93% in 2017. To meet the rising demand for their product line; EDGE Innovate have recently announced an investment of £8 million in the business including an expansion of its production and office facilities and the construction of a new factory that will see EDGE doubling their covered floorspace. The investment also includes the creation of 80 new roles and a leadership and skills development programme.



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SMT GB launches a new generation of Customer Support Agreements

Having showcased its Site Efficiency Services campaign at Hillhead 2018, SMT GB has now introduced a new generation of Customer Support Agreements to support this ongoing initiative.

With effect from April 1st 2019 SMT GB has introduced three new Customer Support Agreements (CSAs), designed to further enhance the aftermarket support available to its customers. These new agreements have replaced the Blue, Silver and Gold agreements previously offered and include a much wider range of value added services.

Each level of agreement has been designed to support customers in a way that matches their business requirements, helping them to run their equipment more efficiently whilst minimising their total cost of ownership.

The key features of the three new CSAs are defined as follows:-

Level 1 CONNECT

- Service Parts Kits
- Labour discount on all service work (10%)
- Annual software upgrade and inspection
- CareTrack telematics subscription – Standard
- Online Parts account

Level 2 ENHANCE

All of Level 1 CONNECT plus:-

- Service Labour
- Quarterly software upgrades and machine inspections
- CareTrack telematics subscription – Advanced
- Volvo Insight Report package
- Connected for Life cover
- Customer Service Guarantee

CUSTOMER SUPPORT AGREEMENTS

- Service Parts Kits
 - Labour Discount - on all service work (10%)
 - Annual Software Upgrade & Machine Inspection*
 - CareTrack Subscription - Standard
 - Online Parts Account
 - SMT Stay Connected**
-
- Service Labour
 - Regular Software Upgrades & Machine Inspections - at every service
 - CareTrack Subscription - Advanced
 - Insights Reports Package
 - SMT ActiveCare**
 - Connected for Life Cover***
 - Customer Service Guarantee
-
- Repair & Maintenance Parts & Labour
 - Simulator Programme****

* Once for each 12 months the CSA is active
** Coming soon
*** Valid only whilst there is an active L2 or L3 CSA on the machine
**** Simulator Programme offer is up to a maximum of 3 sessions (1 day's simulator use for up to 6 operators per session) for multi machine deals. Can be upgraded to site based EcoOperator Programme on request and for an additional charge.

L1: CONNECT

L2: ENHANCE

L3: OPTIMISE

Level 3 OPTIMISE

All of Level 1 CONNECT and Level 2 ENHANCE plus:-

- All Repairs (Parts and Labour)
- SMT GB Simulator Programme

SMT GB's standard terms and conditions apply to all three levels of agreement.

To kick-start this new generation of Customer Support Agreements, SMT GB is including a twelve-month Level 1 CONNECT agreement as standard on all orders placed for General Purpose Production Equipment ordered between April 1st and 31st December 2019 inclusive.

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.

Innovation meets excavation

Earthmoving attachments manufacturer, Miller UK have announced that they are bringing something truly groundbreaking to Plantworx 2019.

Miller UK will reveal its next generation, hydraulic quick couplers which are suitable for excavators from 1 to 50 tonne when they return to Plantworx next month. Plantworx is the UK's dedicated working construction event with a showcase of plant, tools, equipment & services. Visitors to Miller's dedicated stand, H26 will have the opportunity browse the full Miller product range including their PowerLatch tilt couplers, award-winning buckets as well as watch live product demonstrations of the new Miller GT Series quick coupler.

Barry Robison, Miller UK's marketing manager said, "We're unveiling something special at Plantworx. The new GT series is set to bring innovation to the excavator industry like never before. We strongly believe that coupler technology has a key role to play in improving the operator experience; making on-site operations safer, more convenient and capable of withstanding the most challenging working environments". The brand new Miller GT series range is the lowest, lightest and safest quick coupler on the marketplace offering 1T -50T excavators the widest multiple range of pick-ups for any attachment within the same class all from the comfort and security of the cab.

Safety is built into every element of a Miller quick coupler and their innovative GT Series quick couplers also feature an Intelligent Coupler Connect System. Designed to reduce the risk of job site accidents, interruptions and unexpected costs, this ground touch technology has been designed to initiate the changing of attachments whilst on the ground; the ultimate in attachment & ground worker safety.



Gavin Urwin, Head of Engineering at Miller UK commented, "This innovative control system guarantees that the attachment can only be released in a safe position. All from the comfort and security of the operator's cab, the adaptive safety control unit sends digital commands to the automated driver alert system, notifying the operator that the decoupling/coupling process is safe to commence. It's a true industry benchmark for safety."

Miller looks forward to welcoming you to visit their stand, H26 to find out more about the GT Series; where innovation meets excavation.



For more information please call 0800 912 0006, visit www.millergroundbreaking.com



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Warwick Ward announce new partnership with Keestrack

Warwick Ward (machinery) Ltd are extremely excited to announce our new partnership with Keestrack as their new dealer for England and Wales for the full range of their crushing and screening equipment.

Keestrack Area Manager Peter McGeary said "We are delighted to have signed an agreement with Warwick Ward. This company is a household name in the machinery industry in the UK and is well recognised for selling quality equipment and excellent After sales support. Mr McGeary said the partnership between Keestrack and Warwick Ward will help further increase the sales of Keestrack machines in England and Wales with a focus on supporting our existing customers and finding new customers who are looking for high quality crushers and screeners.

Ashley Ward said "Warwick Ward are delighted and excited to embark on this new partnership with Keestrack. The Keestrack products are without doubt of exceptionally high quality and the product range fills an important gap in our overall company portfolio. In addition, the products complement very well our other brand partner offerings in the crushing, screening and materials processing sector where we already have many strong existing relationships. We look forward to what we hope will be a long and successful collaboration."

The full range of Keestrack products will be sold alongside our existing construction and recycling offerings.



L-R Peter Hoogendoorn - Keestrack, Peter McGeary - Keestrack, Ashley Ward - Warwick Ward (machinery) Ltd, Kees Hoogendoorn - Keestrack

For all enquiries within England and Wales contact Warwick Ward directly on 01226 747260 or see the full range of Keestrack equipment here:

<https://www.warwick-ward.com/keestrack>

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The first of the generation 8 series of Liebherr crawler excavators is now available

Since the beginning of 2019, Liebherr has launched seven crawler excavator models that make up its generation 8 series.

Now in production at Liebherr-France SAS in Colmar and available worldwide, the full range of generation 8 crawler excavators includes the R 922, R 924, R 926, R 930, R 934, R 938 and R 945. With the exception of the brand-new mid-weight R 930 that was developed with earthmoving works in mind, the models in the series, which range from 22 to 45 tonnes, replace earlier models and offer greater mechanical power and other enhancements compared to their predecessors.

Greater power with lower consumption

Liebherr has significantly increased digging forces and improved tractive forces, resulting from the upper carriage's swing torque, thereby enabling the generation 8 crawler excavators to achieve a much higher level of performance on construction sites. At the same time, the new equipment concept devised for this latest generation of excavators offers increased bucket capacity and optimises the load curve and inertia of the swivelling drive in order to reduce fuel consumption.

Comfort and safety maximised

Operators of Liebherr's generation 8 crawler excavators benefit from an ultra-spacious, temperature-controlled cab. Pneumatic seats with vertical and longitudinal suspension and a high resolution, user-friendly seven-inch touch screen make work particularly convenient.

The cab's windscreen, which along with the right-hand window is made of tinted laminated glass, can be fully lowered. An unobstructed panoramic view and monitoring cameras at the rear and sides maximise safety and the foldaway console makes cab access safe and easy.

The upper carriage is now accessed from the front of the machine via a secured platform that is fitted with handrails to ensure three points of contact. The entire area is fitted with non-slip studs.

The certified ROPS cab structure provides robust protection with the rear window serving as an emergency exit on all configuration versions of the excavator.

LED technology has completely replaced the halogen headlights, increasing operating life and reducing electricity consumption whilst dramatically improving illumination of the working area.

First off the production line...

is the R 922, which will be closely followed by the rest of the series. This redesigned machine boasts a heavier counterweight, greater traction force and a higher swing torque than its predecessor. Highly competitive in terms of reach, lifting duties, digging depth and fuel tank capacity, the R 922 has enviable breakout and digging forces with arguably the largest bucket in its class. Winner of an iF Design Award 2019 in the product category, the R 922 is now in stock.



HUB Features 2019

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

The HUB magazine is posted out to 6,000+ individually named recipients, and it is delivered to place of work, not their home address. This means that we get to end users and sites, and our 'pass-on' rate is currently at around 3 meaning that our estimated readership is 18,000 each quarter. Plus, our reader-ship don't have to pay any subscription to receive the Magazine.



July/August 19

MRF'S & RECYCLING PLANT – IBA plants, biomass plants, autoclaves, picking stations, hoppers, conveyors, magnetic separation, eddy current separators, air separation, shredders, optical & robotic separation, balers, fork lifts & telehandlers, compactors, crushers, screens, spare parts, material handlers, lighting, H&S, bulk storage bays, weighbridges, belt weighing, dust suppression, wear parts, rail services, attachments, buckets, metals recycling, wind shifters.

Editorial copy deadline 5th July 2019

Advert copy deadline 15th July 2019

September/October 19

ASPHALT PLANT, BITUMEN & CONCRETE PLANT – mobile & static plant, asphalt storage,

dryers, burners, control systems, hot oil heaters, spare parts, RAP equipment, modified bitumen, H&S, bulk storage bays, concrete plant & equipment, concrete mixers, weighbridges, belt weighing.

Editorial copy deadline 5th September 2019

Advert copy deadline 16th September 2019

November/December 19

MOBILE PROCESSING EQUIPMENT – mobile stackers, mobile conveyors, mobile radial stockpilers, mobile tracked conveyors, mobile crushers, shredders.

Editorial copy deadline 5th November 2019

Advert copy deadline 15th November 2019



To reserve space or ask a question! +44 (0)20 3637 0385 | sales@hub-4.com

Metso Pumps continue to expand their complete pump solution package in the quarrying sector



Greg Dixon
Sales Manager, Pumps
Business Line

HUB-4 went along to meet Greg Dixon, Pumps Business Line Sales Manager for the United Kingdom and Ireland to learn more about this expanding part of the Metso UK business. Greg has been with the business for 9 years and has vast experience within the pumps sector. He provides a

personal service to all clients visiting sites up and down the country to give valuable insight into what is needed in solving their pump problems.

Greg told us more about the range "Our Orion series pump has been the back-bone of the Metso range globally since 1985 and is available as both a single and double adjust version. This feature allows for adjustments to be made to the clearances of the impeller front and back reducing the wear rates and keeping efficiency high for the client. The Orion pump was one of the very first slurry pumps with an effective double adjustment in the field. Training is key with this type of pump and we pride ourselves in including full on-site training so that this is achieved and maintained.

"Our pumps business and service centre is based at our Rugby office where we have an 8 strong technical sales team for spares and wear parts, 6 external sales managers covering the whole of the UK for new and existing clients, 6 mobile service engineers and one in-house dedicated pump engineer providing support where pumps have been sent to us from



site to maintain a sterile environment for servicing. For the UK market we mainly specialize in a range from the HM50 right through to the MM300 where the number equates to the inlet size and at Rugby, we have a dedicated pumps spare parts stock facility supporting the range. We can if needed also call on our global stock to keep the client's downtime to a minimum. During 2019 we will also start to offer a service exchange programme within the UK again, helping with downtime.

"A very important thing to point out is that we don't just supply the pumps, we offer a full pump solution for our clients, including the gland seal arrangement and network of slurry hoses. We provide full on-site solution planning to come up with an effective long-term answer to our clients'



problems. We have found this especially effective when dealing with existing wash plants in the quarrying industry where the original pumps are now undersized due to increase output. Here we can replace the old pumps with new models to cope with future increases in throughput and variable material feed scenarios where more abrasive material can be tolerated. In this scenario we also offer full material testing at our labs in Sweden to make sure that the pumps will handle the material that is put through them, and to complement everything we are able to offer complete maintenance contracts (Life Cycle Services / LCS) for all of our UK clients."

For more information on Metso pump solutions visit <https://www.metso.com/products/slurry-pumps/>

Ace Plant keep Queen Mary Quarry dust free



L-R: Keith Whitlock & Gary Langton

Recently the HUB team visited an operation which is slightly different to the norm and found out how they have successfully controlled any dust issues...

Located at Laleham near Staines-upon-Thames, Queen Mary Quarry is leased and operated by Brett Aggregates. In a previous life the 'quarry' (although it's a reservoir) was operated by Reservoir Aggregates with the reservoir being owned by Thames Water. Built before the second World War, the reservoir is one of many in the locality and is one of the largest of its kind in the South East. Over the years in excess of 50-60 million tonnes of aggregate has been excavated from the reservoir which has been a substantial benefit to the local community in terms of aggregate and essential building products. Today it's an operation with a bespoke plant producing high quality aggregates making it a very successful operation for Brett with the whole operation being committed to the supply of concreting and essential building materials.

Aggregate is removed from the reservoir by a large clamshell dredger that digs and drops the aggregate into one of two barges which bring the materials over to a recovery dredger which then releases the material beneath itself onto the bottom of the reservoir. A recovery grab then loads the material into a hopper with the aggregate then delivered onshore via conveyor to stockpile adjacent to the washplant, where it is left to dry.



Gary Langton – Operations Manager – LHC, commented, "The Queen Mary operation is a little different to most quarries as most of the material is dredged from the reservoir. In addition, we bring in material from a variety of local sources which we process on-site into various sizes."

A dust suppression system was required in and around the site for health and safety and planning compliance and a dependable suppression kit was soon identified in the form of Ace Plant (Adams Cundell Engineers Ltd). Ace Plant have in excess of 40-years' experience and have developed a wealth of experience in several specialist areas. They offer a wide range of Dust Suppression Units with attachments such as splash plates, rain guns, road wash systems, pressure washers and their innovative F1 inspired carbon fibre spinning disc water applicators. Their extensive dust suppression range also includes their self-contained Dustfighter, fan-based mist blowing equipment.





Gary points out, "It's our duty as a responsible neighbour to control dust around our operations and it was obvious that Ace could offer a 'one stop solution' for all our requirements, which was exactly what we were looking for."

Keith Whitlock – National Sales Manager for Ace Plant, takes up the story, "What we did a few years ago we looked at three sites all of which had a tractor and a dust suppression unit and how to make it cost effective and justifiable. We look at what the requirement is and supply the equipment which is suitable for that specific application, not just this is what we have available."



For Queen Mary, Ace supplied a John Deere 6115M 4wd, 115hp tractor which featured a 4-cylinder turbo engine, 420/85R38 rear & 380/85R24 front wheel equipment, 24 x 24 power quad plus (40kph) transmission, 2 speed PTO 540/1000 rpm. This machine was specified with 3 x deluxe remote spool valves, air conditioning, corner post exhaust, 6 x 300kg front end weights with 70kg base weight. A flashing amber beacon, green seat belt light, white noise reverse alarm, common return fitting, hydraulic pump 80 litre per min., hydraulic extendable pick-up-hitch and front fenders completed the specification.



Alongside this an Ace Plant 7200 litre (1600 gallon) Single Axle Dust Suppression Unit which featured the following:

- Barrel size 3.6m length x 1.5m diameter with 550/60 x 22.5 flotation wheel equipment
- Swivel ring hitch
- Sprung drawbar
- 8,000 litre per minute hydraulic driven vacuum pump
- Handbrake
- Quick hitch fill attachment
- 4.5m of suction hose
- 660mm rear door
- Carbon fibre spinning disc
- 150mm hydraulically operated discharge
- 50mm side mounted wash down port
- Implosion valve
- Pressure relief valve
- Overfill protection valve and drainable ball valve

Both Brett and Ace had discussed at length the discharge of water and the efficiency of a carbon fibre spinning disc application vs. the splash plate.

Traditional dampening systems use pressure to discharge water from a bowser or vessel onto a splash plate which disperses water outwards. On average, this type of system uses 2000 gallons of water in approximately 8 minutes. To minimise water usage and maximise efficiency the hydraulically driven carbon fibre spinning disc was utilised for the Brett operation. This system gravity feeds water onto a spinning disc which atomises water into a fine mist. This method 'dampens' an area instead of 'soaking' an area unnecessarily. Furthermore, this method (on average) can make 2000 gallons of water last up to 90 minutes, instead of 8 minutes using a splash plate and fully pressurised vessel.

Gary, commented, "It's essential for us a business to have the right equipment scoped for the duties required. Another aspect was a desire to offer an 'operator experience' making occupational health a key area in the pursuit of a great operator experience. Items such as seat covers, air conditioning feature heavily in the supply of an appropriate model for the industry which Ace were able to provide. Again, service was an important issue in the decision as Ace again covered all the bases making it again a 'one stop shop' for Gary."

Keith, added, "It's all done in house, we get the call, we respond quickly and remedy the issue. With a summer like last year it was a long hot summer and dust issues grew in number in all industries, so we understand the need is constant and if there is an issue the response has to be quick!"

It has worked very well for Brett and it's a solid partnership that is resulting in further investment in Gary's area of operations.

Currently Ace are preparing a unit for delivery in April and another two units which will be delivered Q1 – 2020 and in the pipeline is another which may be required quickly at another site depending on a contract that is still to be finalised.

It's certainly a working partnership with an effective planned dust suppression agenda.

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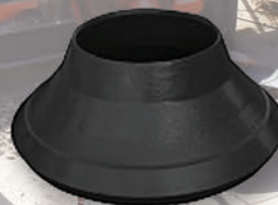
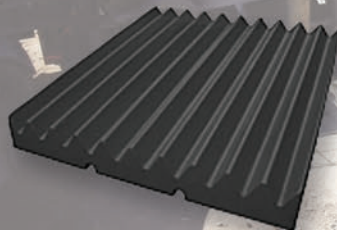
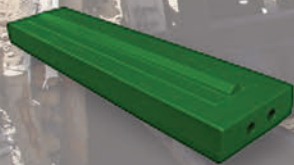
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A-Trax - Keeping your business on track!

Industry-leading global sourcing experts ATG has announced the launch of its latest venture

ATG, the global sourcing specialists, has recently launched a new subsidiary. The company, called A-Trax, has taken over ATG's existing crawler undercarriage production with the goal of growing the business on both a national and global scale.

Shaun Edwards, Managing Director, who formed ATG in 2009 explains the rationale behind creating A-Trax. "The undercarriage side of ATG's business has grown so much over the last few years that it made perfect sense to set up a dedicated company to meet demand. From our new factory in the East Midlands, we will manufacture to just-in-time delivery schedules by holding all the stock required for the complete assembly of our track range."

A-Trax will continue to focus on the mining, material processing, recycling and construction industries supplying tracks for a wide range of vehicles such as screeners, crushers, trommels and stackers.

Shaun continues, "these are industries that we have a proven track record in as ATG's success over the last 10 years has clearly shown. We'll also be holding an excellent selection of spares including track shoes, track chains, idler assemblies, track link repair kits, rubber track pads, gearboxes & motors and motion control valves."

As well as building tracks, Shaun says that he will also be building a brand that will be distinctive, easily recognisable and trusted in the crawler undercarriage market.

"Through our strategic marketing strategy, we'll be reminding our target market that A-Trax's core principles of quality and reliability coupled with outstanding customer service are at the heart of everything we do. In short, you'll be able to rely on A-Trax to keep you moving!"



Superior Industries delivers custom sand wash solutions

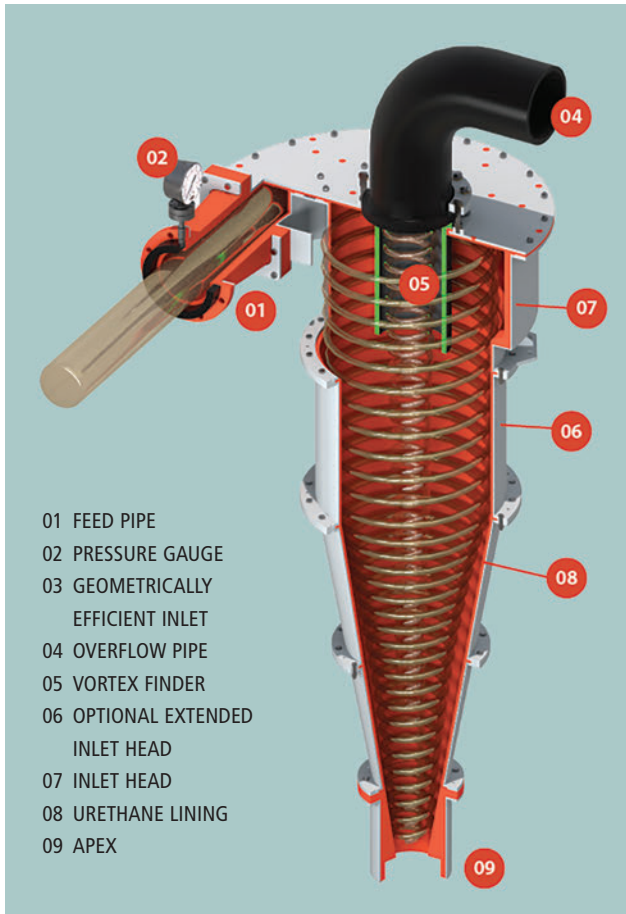
Ted Asrat



"Cost-efficient sand production and fines recovery is rarely reached by using one-size-fits-all solutions. Rather it's a matter of 'dialing in' desired specifications with custom sand wash solutions designed for a specific application," says

Ted Asrat, washing specialist for Superior Industries, a U.S.-based manufacturer and global supplier of bulk material processing and handling systems.

Among Superior's complete line of washing and classifying equipment, is its new Spirit® Sand Plant, "A modular system that delivers cost-efficient sand production, fines recovery, and dewatering via a single, compact plant that's completely tailored to meet the needs of the customer," says Asrat.



The modular Spirit Sand Plant offers custom configurations that combine Superior's Helix® Cyclones with a dewatering screen, sump tank, and slurry pump. "By manufacturing our own wide range of cyclones and dewatering screens, we ensure that the plant is configured with the right cyclone and screen for the specific sands and fines recovery cut points," says Asrat, adding that as a single-source supplier, Superior is able to "package" plant solutions far more effectively than those manufacturers who must rely upon outsourcing key plant components. "We don't provide 'cookie-cutter' plants, or 'off-the-shelf' solutions," he says.



Several years in the making, the Helix Cyclone offers a better design, says Asrat, as the slurry mixture feeds into a geometrically-efficient inlet that reduces any turbulence of the feed, while improving classification and reducing internal wear.

He explains that cyclones are ideal depending upon the desired goals – and especially where water is scarce, and footprints cannot support settling ponds. "While cyclones have greater horsepower requirements, they make up for it by pulling more fines out of the finished product; minimizing pond maintenance; and boosting fines recovery for maximum sellable product stockpiles," he explains.

Dewatering screens are sized to the application and installed with the appropriate media and with the required settings and angle of inclination. "We can also customize the mounting, support structure, and access areas to offer greater flexibility, safety, and ease of maintenance," he adds.



By analyzing all the parameters of the application, Asrat says that modular plants are fine-tuned for precise processing needs – and inserted seamlessly into the operation. The modular design erects in several days versus the weeks required for conventional fixed plant designs. The plant features bolt-together, pre-plumbed pipes; and pre-installed wiring components – and the entire plant fits and ships in a standard-sized export container. “Importantly, we listen to the customer, and deliver what they’re looking for – modular and skid-mounted solutions, portability, turnkey setups, user-friendly operation, and local parts and service support,” he says.

“Efficiency is everything,” stresses Asrat, “At Superior, our custom sand wash solutions are engineered to meet the needs of each specific application – the material gradations, required specifications, water availability, material flow, footprint management, ease of maintenance, and maximum product output – at lower operating costs per tonne.”

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The Armstrong Group invest in their fourth Dernaseer Mobile Washing Plant



Bolton-based Armstrong Group who operate five quarries across the North West and Cumbria have recently purchased their fourth DWP450 mobile washing plant from Dernaseer.

The DWP450 mobile washing plant provides sand and gravel producers with a truly mobile, high capacity washing system. The highly versatile and portable washing plant features a triple-deck 20' x 6' (6m x 1.8m) inclined washing screen capable of producing one or two washed sand products and three washed aggregates, along with a cyclone sand processing unit incorporating a rubber-lined slurry pump, sump tank, single or dual rubber-lined hydro cyclones and a high-capacity dewatering screen. The sandbox and discharge chutes are rubber lined to reduce wear and noise.

The DWP450 is mounted on a heavy-duty triple-axle wheeled chassis with onboard catwalks providing access to the screen and sand unit. It is typically supplied with a mobile feeding and optional pre-screen unit, and wheeled stacking conveyors to provide maximum productivity and portability to the operator.

Armstrongs have installed these plants at their Montcliffe and Brinscall quarries where they produce quality sandstone sand and aggregates and at their Shap quarry, famous for its Shap pink granite sand and chips. In order to maximise stockpiling capacity in their washing plants they have incorporated the Dernaseer QK 32m long, galvanised conveyors which can stack up to 6000 tonnes in a single stockpile.

Also, with an eye on environmental sustainability and water conservation Armstrongs have installed Dernaseer water recycling systems at their Moncliffe and Brinscall quarries. The water treatment plants separate the suspended solids from the hydrocyclone overflow. The settled sludge is pumped to a storage lagoon while the clean overflow water is pumped back to the washing plant. This system recovers up to 90% of water used in the washing process.

Armstrongs CEO David Armstrong values the close relationship with Dernaseer stating recently that, "Dernaseer are a family run business just like ourselves. We deal directly



with the factory in Northern Ireland and they do exactly what they say they will do. The 450 is a no-nonsense washing plant that offers excellent value for our investment. It is cost-efficient to run so provides us with the lowest cost per tonne of material produced".

Dernaseer will soon be launching the M4500 modular version of their popular washing plant. The M4500 combines aggregate washing and screening with sand processing on a galvanised modular support chassis. The first M4500 has already been sold to a customer in Bahrain and is due for commissioning in June.

Based in Dungannon, Co. Tyrone Dernaseer specialises in the design and manufacture of washing plants and screening equipment for the sand & gravel, quarry and recycling industries. In business since 1988 the company has extensive experience in providing the correct solution for washing and offers everything from a complete turnkey washing plant to any component from its range of washing equipment including screens, cyclone sand treatment plants, log washers, bucketwheel sand washers and water treatment plants.

For more information on Dernaseer Washing please email info@dernaseerwashing.com or call +44 (0)78 098 64869



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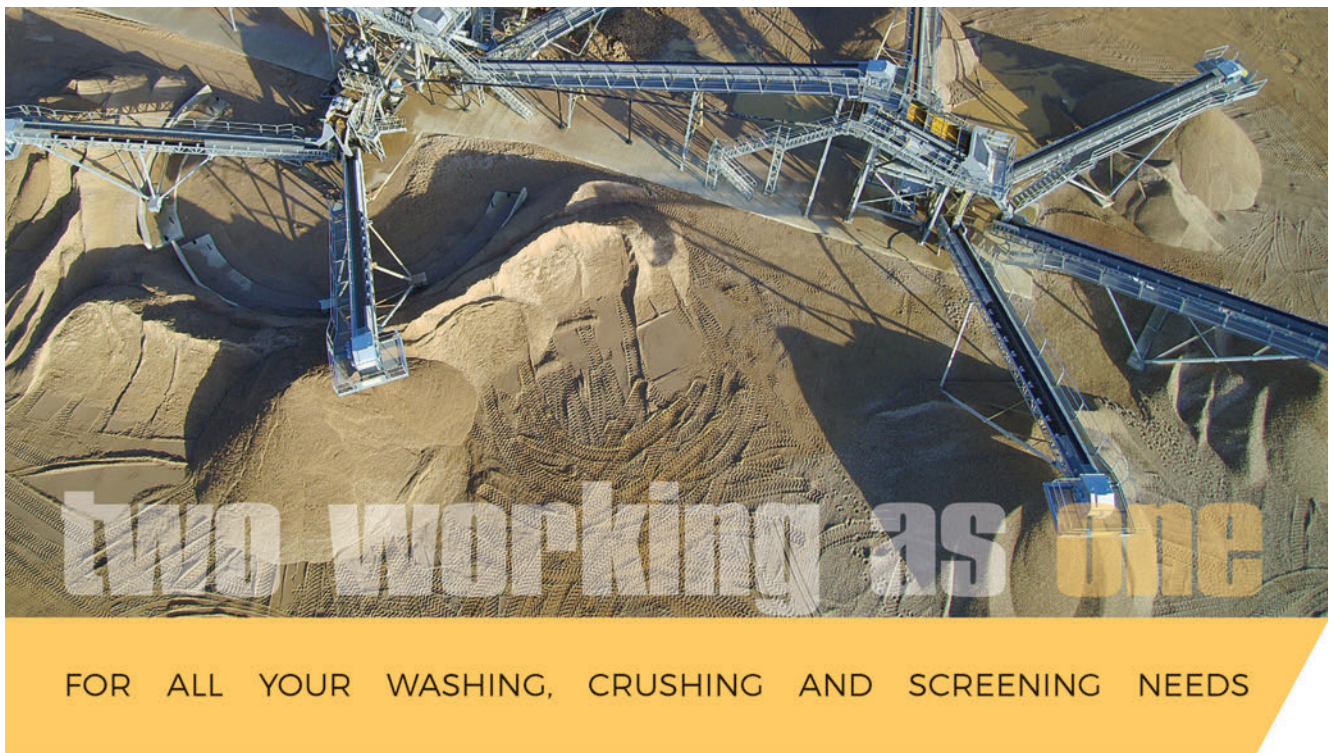
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Expanding SRC opts for CDE Infinity Screens™ in new wet processing plant

Oliver Rees SRC – MD



SRC Aggregates has opted for Infinity Screens in a newly commissioned plant from CDE, the world-leading wet processing company, and is set to upgrade its existing plant with the addition of the patented product.

SRC has been a CDE customer for around 10 years and has recently ordered two new CDE plants to add to its existing five. The largest of these - a 135 tonne per hour turnkey operation to be installed in Colchester, Essex - will incorporate five Infinity Screens™.

CDE launched its Infinity Screens™ range to the market after securing a global patent for the construction of the screen sidewalls. The range has been a significant success, with customers valuing the durability and prolonged operational life of the products. This results from their unique construction, with no welds in the sidewalls, which makes them fundamentally different from other screens available.

Oliver Rees, Managing Director of SRC Aggregates, says: "One of our existing plants incorporates two CDE H2-60 horizontal sizing screens from the Infinity Screens™ range which we have been extremely impressed with, in part because of the Trilogy side wall design which is lighter and enables a more efficient transfer of energy to the material. The energy and motion of the screen also produces a cleaner and better-graded material. When we were ordering two new plants, it was an easy decision to make to opt for Infinity Screens™ and we are currently also working with CDE with a view to upgrading the screens in our existing plants that currently have traditional welded screens," he says.



Mark Ballantine, Senior Product Development Engineer with CDE, says: "A key intention of the design process was to remove all welds from the construction of screen side walls in order to prolong the operational life of the screen. Successfully overcoming that challenge resulted in CDE obtaining a global patent for the design, which firmly established our credentials in this area, and customers have responded strongly. As a result, we are seeing strong growth in sales of screens. This includes products integrated into modular equipment, but we are also seeing a growing number of customers buying them as stand-alone products, and we expect this to be a trend in the year ahead."



SRC Aggregates is an independent, family owned business providing a range of materials and services to construction, building and large-scale civil projects. In addition, they operate recycling facilities, specialising in waste disposal services for inert, non-hazardous waste and hazardous materials. The company has experienced significant growth in recent years and expanded to include various with strategic sites across the East of England.

Further information is available at: www.cdeglobal.com



Landlogical invest in a new Terex® Aggregate Washing Plant

Landlogical is an independently owned and managed company that provides creative, practical, and cost-effective solutions and services for landowners and the construction industry.

Recently the company has invested in a washplant for their new Pasture House Farm Quarry at Thorney, Peterborough. Originally used as agricultural farmland the 53ha site has been turned into production as a sand and gravel quarry. This followed a geological investigation in 2014 which revealed mineral reserves of 3.7 million tonnes that would be suitable for a wide range of concrete and construction uses with all the processed material graded and tested to BS EN 12620 for concrete production which will be supplied to local companies, concrete plants and general builders.

On exhaustion of the mineral reserves the farm will then be restored back to agricultural use.

Nick Katz - CEO for Landlogical, commented, "We are all at Landlogical very excited about the opening of our new cornerstone sand and gravel quarry at Pasture House Farm Thorney.

"The choice of Washplant was clearly the most important part of our processing infrastructure, and our decision to use DUO was not taken lightly, and not based solely on plant cost alone but the overall package.

"Having met the DUO team of directors, design engineers, service technicians and fitters, we decided the DUO package was best suited to meet our production needs.

"From the day the contract was signed and until the day of handover, DUO have been exemplary in their professionalism and performance.

"As a result of this service we have just placed our second washplant order and look forward to working with them again."



After researching the market for a wash plant and following site visits and consultation the Land Logical team selected a Terex® Wash Plant based on a Twin Compact Fines Master FM 120 C and a PS 120R Powerscrub which has been supplied by the English and Welsh dealer for Terex® Washing Systems (TWS) – DUO Equipment (part of DUO Group Holdings). As an industry leading supplier of innovative wash plants DUO have an outstanding pedigree in the marketplace for innovative solutions, customer support and expertise in the field to meet customers' individual needs.

The Sand & Gravel Plant:

The fully electric plant is required to produce 350,000 t/annum on a required feed rate of 170tph based on an approximate silt content of 5% providing two sands and four aggregates - 10mm/20mm/40mm/+40mm.

The plant is fed with a variable as-dug material into a 12m³ H12 heavy-duty hopper with a remote-control hydraulic tipping grid. Material is then fed via a main feed conveyor onto a 4.9 x 1.5m double-deck rinsing screen which utilizes individually controlled spray bars on each deck which are fitted with polyurethane modular media.

Acting as a protection deck the top deck removes any rejects (+40mm), with the bottom deck providing the feed to the Fines Master 120C to produce the two required sands which are stockpiled by radial conveyors.



Twin Compact Fines Master FM 120 C:

A static sand recovery unit on one chassis, the FM-120C is designed to process up to 120tph and features twin hydro cyclones – one G4 500 for sharp sand and one G4 375 for soft sand with two pumps; a 200/150 rubber lined Linatex pump for sharp sand and a 150/125 for soft sand.

A 4.3m x 1.8m high frequency dewatering screen fitted with polyurethane screen modules reduces residual water content in the final products to 10–15%.

A specially designed rubber-lined underflow box allows blending to take place so that an acceptable coarse and fine sand ratio can be achieved. These sands are then delivered to separate radial conveyors and stockpiled.

PowerScrub PS120R Logwasher:

Any aggregate and clay is then fed from the rinsing screen into the twin-shaft PowerScrub™ Logwasher where the material is scrubbed, with the clay and contaminants removed.

The PowerScrub™ Logwasher consists of a 6.5m angle adjustable hull fitted with twin rotating shafts fitted with 15mm Hardox® 500 abrasion resistant blades. The blades convey the material from the feed end of the scrub to the 4.9 x 1.5m sizing screen.

As the material travels through the hull the abrasive action of the aggregate as it collides with other aggregate (stone on stone) scrubs it clean and breaks up any clay conglomerates which are then floated off through the back of the PowerScrub™.



Any organics such as roots or plastics are also floated off to be dewatered over the PowerScrub™ 6 x 2 trash screen. Underflow from the trash screen is received in a catch box under the screen and then gravity fed to the sump tank under the hull.

Scrubbed aggregate then exits the main discharge of the PowerScrub™ PS120R Logwasher via a transfer conveyor onto a 4.9m x 1.5m sizing screen which splits the required products of 10mm, 20mm and 40mm aggregate which are then stockpiled by stone conveyors.



Cutting Edge Control System:

The control system for the Pasture House Farm Quarry wash plant is stored in a centralized cabin on the site which is one of the options offered by DUO through TWS on all installations, alternatively the panel can be mounted onto the machine, all of which are pre-wired. This option exemplifies the flexibility of TWS and DUO to suit individual customer needs or preferences.

Steve Poole – QM, commented, "This is the first plant we have purchased off DUO and they have worked with very well with us to commission the plant successfully. We have been very happy with their work ethic and H&S management. Overall they have provided a first-class plant and service."

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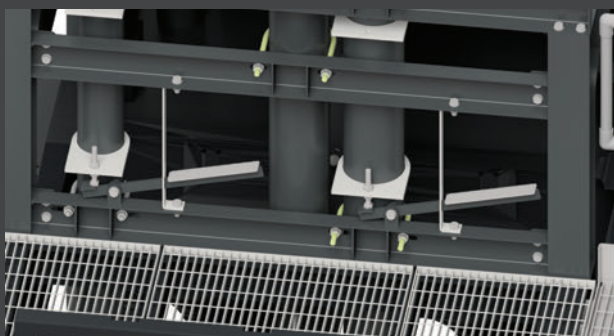
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› WASHING/FEEDING/SCREENING/RECYCLING/ENGINEERING/WEARPARTS

McLanahan introduce the UltraWASH range of modular wash plants

With a long history of designing, manufacturing and installing modular wash equipment, McLanahan's range of UltraWASH modular wash plants are the latest line from the company. Engineered to include all McLanahan equipment that helps producers meet their process requirements, the UltraWASH provides the reliability, simplicity and efficiency that producers need from a modular plant. McLanahan has thought of everything with this line to bring you features that make maintenance and efficiency easier - including two truly unique, patent pending features. The patent pending Eze-Riser allows the operator to cut pump maintenance time in half, and the Fines Forward Slide (patent pending) and Aggregate Discharge Hood are included to increase your efficiency.



While there are a number of modular plant solutions available in the market, McLanahan is one of the only companies offering both custom and modular washing solutions. This, combined with years of processing design knowledge, provides unmatched industry expertise in providing the correct solution for your application.

Eze-Riser

McLanahan knows the importance of uptime, so the UltraWASH is designed with ease of maintenance in mind. The Eze-Riser works together with the pump service trolley to enable safe and efficient pump maintenance, such as changing the impellers or replacing the casing liners. A foot pedal lifts the discharge pipe from the pump and utilizes a locking mechanism to then holding the pipe aloft, offering the clearance needed for the pump to roll out on the trolley service platform unrestricted. Sufficient flexibility is provided by the hydro cyclone entry hose bend above to accommodate these few millimetres of pipe travel, making it unnecessary to disturb pipework other than where it connects directly to the pump at its suction and discharge flanges.

Fines Forward Slide

The manually adjustable Fines Forward Slide (patent pending) can divert a portion of raw fines into the coarse sand processing stream. This balances the downstream process to optimize plant capacity. Alternatively, by substituting the last row of fine material screen panels with coarse material screen panels, the Fines Forward Slide will allow alterations of the proportions of fine and coarse decking areas above, while still preventing the loss of coarse material into the fines processing stream. Two men (one each side of the sizing screen) are all that is required to simply reposition the Fines Forward Slide eliminating the use of cranes or other lifting equipment.

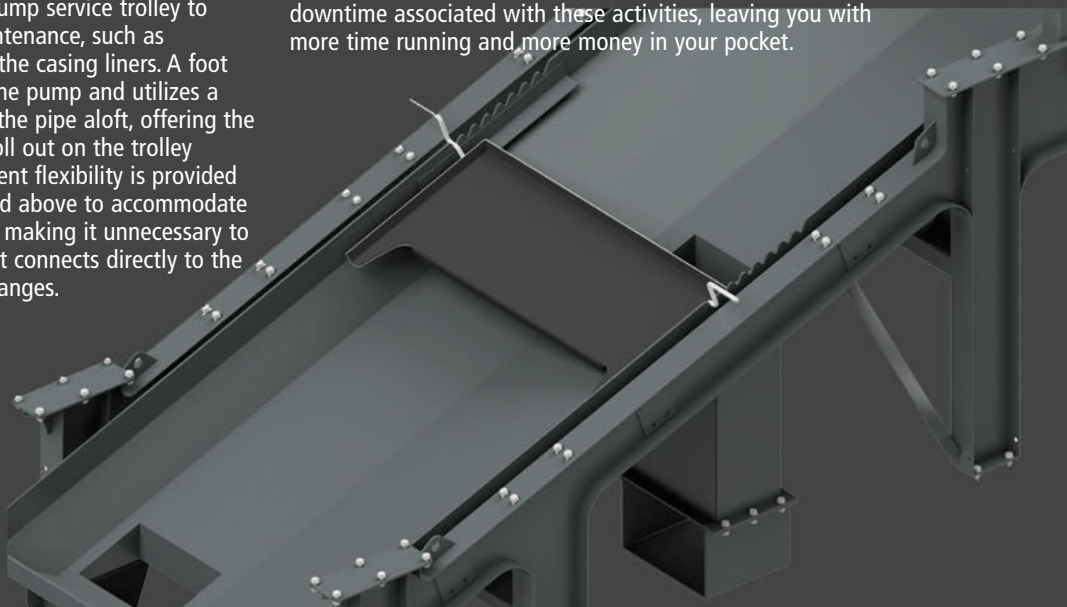
Aggregate Discharge / Remixing Hood

Washed aggregate is discharged from the end of the sizing screen in up to three discrete size fractions for separate stockpiling. However, any two adjacent – or indeed all three – aggregate product sizes may be recombined (either for consolidated stockpiling or onward processing as required) simply by one man's manual operation of the aggregate discharge/remixing hood's rubber-lined diversion traps.

Why A Modular Plant?

Along with these easy maintenance features, McLanahan's modular line arrives in individualized containers, and is quick to set up and easy to move around for different configurations. It is also to transport to other sites when the life of the deposit is shorter. Building your plant requires only the placing of each factory-assembled, pre-wired module on a suitably prepared base, a procedure that will typically take just a few days in order to get the whole plant up and running. The system requires only having a single water feed point and comes pre-wired and pre-plumbed to make installation simpler.

In addition to many of the benefits you receive from a modular wash plant, McLanahan's Eze-Riser, Fines Forward Slide and the aggregate discharge/remixing hood will all provide producers with a simplified maintenance operations and quick changes to your operation. Not found in any other plant on the market, they will eliminate much of the downtime associated with these activities, leaving you with more time running and more money in your pocket.





Newbold Quarry invest in Siebtechnik Tema Pulsator Jigs

Commissioned in early 2018 a new lignite removal plant has recently come on stream at Newbold Quarry. Forming the nucleus of the plant are four SK16-25 Pulsator Jigs which have been supplied by Siebtechnik Tema of Woodford Halse, Northamptonshire.



Siebtechnik Tema (ST) formerly Tema Machinery Ltd dates back to 1922 and has been in the same German family since; the name change was actioned to offer a global synergy where companies operating across many borders would in the future be dealing with one name.

Newbold Quarry is operated by Aggregate Industries (AI) who are part of the Lafarge-Holcim group and has a history going back to the 1960's when Douglas Concrete had its operation there.

The quarry sits in the heart of Staffordshire, South West of Burton-on-Trent, near Barton under Needwood and like other operations in the area suffers with coal, lignite and other organics in various stages of decomposition in their deposits. The quantity of lignite can also vary considerably as can the sand to gravel ratio independent of each other. This creates a vast array of possible feed conditions, therefore any machine supplied needs to be flexible enough and able to perform acceptably to cope with the wide range of feed scenarios.

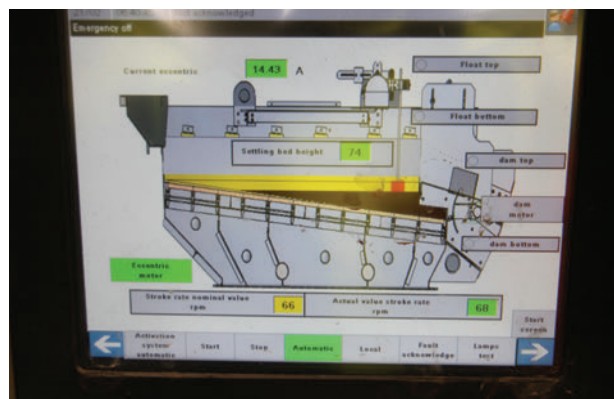
Currently the site has reserves of 8 million tonnes. The site sells to both internal and external customers and supplies a 0-4 concrete sand, 20mm, 10mm, 6mm and a 4-20mm aggregate. Currently the site process in the region of one million tonnes per annum.

The original 530tph sand and gravel plant was commissioned

in 2006 and from the beginning there was always provision for a separate lignite removal plant to be fitted between the 10mm and 20mm belts.

The overall plant design, build and installation contract was awarded to Wright Engineering who commenced work in December 2017 and commissioned the plant in 2018.

After considerable consultation and some stiff competition and numerous site visits in the UK and Europe, an AI Engineering Manager awarded ST a separate contract to supply 4-SK16 Pulsator Jigs and 2-HRE 12/30/IWS Dewatering Screens for the light material and 2-HRE 15/30/IWS Dewatering Screens for the heavy material.



The process:

The remit was to remove up to 99.9% of lignite from the 530tph in-feed of the 20mm and the 10mm product streams which each discharge onto two identical (for commonality of parts) Siebtechnik-SK16-25 Pulsator Jigs, with the coarse stream jig incorporating a longer stroke.

The cleaned product then discharges over a rubber lined dynamic weir onto the HRE 15/30/IWS Product Dewatering Screen. The lignite, coal and organics are then lifted through the material bed by pulsating up-flow currents which stratify on the bed of gravel and subsequently discharge over the 'lights' flume onto the HRE 12/30/IWS Dewatering Screen. The underflow from both the jigs and dewatering screens then returns to a common tank for re-use.

Periodically, silts and adhering grit are recovered from the tank to maintain acceptable levels of water turbidity.

Simon Parry-Jones, Sales Engineer – ST, commented, "One of



the main issues is maintaining the optimum depth of the material for stratification to occur during all feed conditions. For example, if the feed quantity drops off, the float descends and the weir rises to increase the depth of material, and similarly if the feed rate increases the float rises and the weir descends, decreasing the depth to an optimal level. This can be manually adjusted through the Human User Interface (HUI) if required, but generally this is an automatic function.

"When commissioned it was set up so that the depth of material would be approx. 100mm from the bottom of the flume which maintains a safety zone.

"Each of the 4 jigs has a touch screen HUI for adjustments and monitoring historical feed conditions and settings for a period of up to three months. This allows trend monitoring and is a good tool in preventing lost time incidents."

"Lignite at Newbold varies from 0-2% by weight, the lignite density which is unusually high."

Carly Denton – Quarry Manager, further added, "As-dug material is very variable at Newbold and we are currently on phase 2 of our excavations which is mainly 70-75% sand, but the percentages can easily turn around! Our on-site laboratory periodically take samples, so we know what to expect from the area we are excavating."

Due to the water PH values the machines installed at Newbold are of a fully galvanised finish as requested by AI.

In comparison to other machines in the market the ST jigs not only use significantly less water and are a lot quieter, but the main advantage over star wheel discharge compared to the ST dynamic weir, is wear.



Carly, summarised, "We are very happy with the installation, the jigs are removing the lignite very efficiently, we just have to keep an eye on the bed depths and adjust accordingly. The ST team looked after us very well at every stage of the commissioning and are readily available for any consultation."

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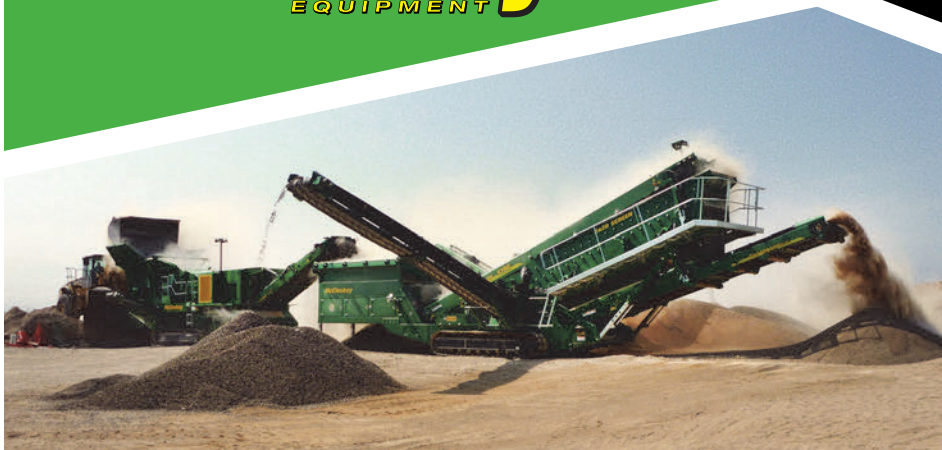
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Safety First for Weighbridge Operations



Weighbridges play a vital role in today's waste, quarrying and agricultural industries, providing a valuable and efficient way to weigh vehicles leaving site with collected products safely, efficiently and in line with legal requirements.

Ideally weighbridges should be located at the very edge of a site with simple access and two clear entry and exit routes which do not interrupt the flow of traffic in and out of site and monitored by a structured traffic management system.

As always, the movement of vehicles poses a high safety risk, but do we know the full extent into which weighbridges play a factor in this?

According to the HSE, there are over 500 incidents involving workplace transport every year. Risks of vehicle movements can be split into 3 crucial categories: site safety, vehicle safety and driver safety and monitoring these categories aided by risk assessments and Safe Systems of Work helps to minimise the safety implications.

There are many risks that a vehicle can take onto the public highway and a weighbridge operator plays a major part in monitoring the safety of vehicles entering and exiting the site.

It is important to consider the following risks that seems to pose the highest threat to weighbridge safety:

- Overloading of a Vehicle
- Sheeting Load
- Balance
- Pedestrian Awareness
- Edge Protection
- Communication

Overloading of a Vehicle

Each vehicle has a maximum load it can carry. It's vital that the weighbridge operator is trained properly to ensure that the goods loaded into the vehicle meets the laws and regulations of that equipment type and ensures the vehicles are not overloaded which may cause a potential overturn. Every vehicle entering onto the weighbridge is different, so it is important that the operator can work out the correct safety load for that truck before the loading procedure begins.

Sheeting Load

Any vehicle which has the ability to shed some of their load must have a sheeting device to prevent any unintentional loss of load. Many of these can be operated mechanically from inside the cab of the vehicle, thus reducing the requirement of the driver needing to be outside their cab.

Balance

The balance of a weighbridge may change from time to time. Regular checks should be conducted by a competent operator to ensure the weighbridge is correctly balanced and when unloaded, the indicator reads zero. A build-up of dirt and debris may cause the balance to be affected so it is important that regular maintenance checks are carried out on the equipment and it is kept as clean as possible at all times.



Pedestrian Awareness

It is important that pedestrian routes are clearly marked around the weighbridge station and at no point where the vehicle is entering or exiting the site can a pedestrian be near the truck; any pedestrians present must be in the weighbridge office or inside the truck. Pedestrian activity within the operational areas shall wherever possible be restricted, particularly in hours of darkness or where any major maintenance works are taking place that can compromise hearing or sight. For certain operations "no entry" zones should be identified and clearly marked by signs, fencing, cones etc.

Edge Protection

There is always a risk of a vehicle falling over the side of a weighbridge if the height is significantly raised above the surrounding ground and the edging is not correctly protected. Marking the edges of the weighbridge and providing suitable barriers for sites that may see large vehicles entering will decrease the risk of a vehicle falling over the side of a weighbridge or cause to damage to the equipment. Drivers may also be compromised by factors out of their control such as weighbridge maintenance or restricted access; this must also be accounted for.

Communication

A lot of busy sites that see a large number of vehicles entering and exiting now have intercoms systems installed to help speed up the weighbridge process and also to increase safety on site. This allows the driver to communicate with the weighbridge operator upon entering the weighbridge and helps speed up the process and prevent a back log of traffic and a potential traffic bottleneck accident occurring.

When entering or exiting a hazardous waste site, the driver must be in as little contact with the materials loaded upon the truck as possible, so these systems help to speed up the weighbridge process to allow the driver to unload the materials as quickly as possible.

It is important that the weighbridge operator ensures the equipment is safe, set up correctly and fully operational to carry out the work; this includes operating the weighbridge and managing the weight of loads, being aware of others around and ensuring the weighbridge is maintained in an operable condition to complete the work.

To find out more information on how to become a competent weighbridge operator or to discuss completing a weighbridge VQ with Mentor, contact us on 01246 386900.

The difference a year makes for Sharp Skips

Over a year ago, recycling solutions provider, Kiverco, met with Sharp Skips to discuss their plans for increasing the efficiency and production of their waste business. One year on, and with a new Kiverco plant installed, Kiverco caught up with Terry Sharp (Managing Director) to find out how they are getting on...



Spaleck high efficiency screening technology



Extra wide working platform for pvc and nonferrous segregation



Fines treatment system including ds150 density separator



Mid size heavy fraction (fines removed)



Clean heavy - light residue - ferrous metals

TERRY, WHAT WERE YOUR INITIAL REQUIREMENTS WHEN APPROACHING KIVERCO?

"We required the development of a bigger facility on the current site which would be capable of handling up to 50TPH of Construction & Demolition waste. We could see straight away the benefits of what Kiverco were proposing and we were eager to ensure all the best technology would be incorporated into the plant - such as Kiverco, Steinert and Spaleck equipment. We also wanted one line to process all instead of the current set up we had, which was one-line handling heavies and another lights. A fines treatment system was also on our wish list as we wanted to ensure LOI compliance and further enhance the return on our investment."

HAS THE FINISHED PLANT MET ALL OF YOUR REQUIREMENTS?

"We are delighted with the completed plant and it is certainly achieving what we wanted. It is handling between 40-50TPH. The segregation of products and the product quality is exactly to the standard we required. In terms of the installation and commissioning process, it was excellent, we couldn't have asked for better. We had very little downtime and all went smoothly. The Kiverco team were extremely professional throughout the process."

WHAT IMPACT, IF ANY, HAS IT HAD ON YOUR BUSINESS?

"When looking at the impact this has had on our business, the plant itself is such a good sales tool for us. We have had visits from various authorities, and they have been impressed with the standards and quality of our set up. We can process a lot more waste than previously which obviously has a positive impact on our business. We can now run the plant on a single shift where previously we were running double shifts. Without a doubt, we will see a return for our investment."

Steinert electro magnet for high recovery rates of ferrous metals





THE EW240E MH PUT WASTE IN ITS PLACE

Throughout the decades, Volvo wheeled excavators have proven to be multi-purpose and reliable machines. Built on experience and the proven EW210D MH concept, comes our best material handler yet – the EW240E Material Handler. Specifically designed for waste and recycling industries and manufactured in the Volvo factory, this machine offers all the tested features from our previous excavators – and much more. **Building Tomorrow.**



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Central Demolition upgrade their processing capabilities with a Blue MRF

Central Demolition started life in 1993 as Central Demolition & Dismantling and has continued to grow into the award-winning company it is today. Back in 1993, Central Demolition Ltd comprised of one excavator and one tipper and has now grown to employ nearly 200 members of staff, operating a mixed fleet of HGV vehicles and 100 items of plant equipment from their Bonnybridge HQ.

The recycling element of the business commenced in 1997 supplying skips to domestic and commercial customers, recycled aggregates and tipping facilities.

In the 25+ years in business, the company has undertaken some high-profile contracts including the John Brown Ship Yard, the former NS&I Bank HQ in Glasgow, former Alcan Chemicals Factory and the Belsmyre High Rise Flats.



With an aged plant, changing regulations and the need to upgrade their MRF, Central Demolition have recently invested in a new bespoke twin line MRF featuring a Spaleck screen which has been supplied and commissioned by Blue Scotland in August 2018.

Having supplied the original plant 11 years ago, Blue Scotland and Central Demolition have built a solid relationship over the years with Blue supplying other equipment, including several Fuchs Material Handlers that feed the new MRF.

John Ellis – Plant Manager, takes up the story, "Changing regulations and the desire for more throughput with the capability of a bigger picking team making the whole operation more efficient has been the driver for a new plant. The biggest primary issue was the footprint but when we sat



down with BlueMac Manufacturing they resolved any issues with a bespoke design that really worked for us."

Part of the Blue Group, BlueMac are based in Northern Ireland and specialise in the design and manufacture of cutting-edge recycling systems, material recovery facilities and bespoke machinery.

"The new plant incorporates a Spaleck® screening machine", added John.

"To be honest we had previously used a trommel and at first I had some reservations but it's a first-class piece of kit and has exceeded my expectations."

Spaleck® Waste Screen:

The Spaleck® waste screen at Central Demolition incorporates a vibrating screen with an optimum circular motion and is driven by a high-performance and equally efficient three-phase AC motor. The blind bottom on the in-feed side guarantees an efficient utilisation of the screening surface and creates a good material flow which increases the service life of the screening elements and reduces blocking material.

Additionally, the screening elements can be changed easily and quickly and are therefore easy to adjust to the different sized cuttings.

The sub-frame compensates the residual vibrations of the screen. The optional cover can be opened without using tools and ensures quick access to the screening module. Overall the Spaleck® provides economic operation which requires low maintenance and is inherently maintenance friendly.





L-R: John Ellis-Plant Manager with Dermot Donaghy of Blue Scotland



The processing operation:

Currently processing between 80-100tph the new MRF is served by a Terex Fuchs MHL 331 Material Handler which feeds the pre-sorted waste into an inclined heavy-duty GK grizzly feeder. This grizzly splits the waste with the +150mm oversize going forward up an inclined conveyor into a 7-bay picking station. Following picking, any residual material passes under a magnet where any ferrous is removed to the side with the rest passing under an air knife which separates the lights to the side with any aggregate dropping below into a bay.

Any fraction -150mm is fed to the right which passes under a magnet where ferrous is removed by an overhead magnet with the rest fed into an 8m³ feed hopper. Material is then fed onto an inclined covered conveyor onto the top deck of the Spaleck® screen which separates the 10mm fines to stockpile with the 40-150mm fed forward to the 4-bay picking station

passing under a blower to remove the lights en-route. Here wood, cardboard, plastics and non-ferrous material is picked and dropped to the bays below. The remaining material again passing under a magnet to remove the ferrous with the remainder finally passing under a Typhoon 1500 air density separator to remove any remaining lights with any aggregate dropping to the bay below.

Dermot Donaghy – Sales Manager, Blue Scotland, commented, "It's a very compact arrangement which had to fit into a tight footprint, but we achieved this by elevating the feed end. This has also made the loading more efficient as the plant can now be fed easily by one material handler. The two picking lines have also allowed more picking bays to be featured with an element of future proofing by adding more men and increasing throughput, making the whole operation even more efficient."

The future:

The bespoke design of the new MRF at Bonnybridge is providing a more efficient operation on a daily basis, by increasing the waste processing capacity and specifically enhancing the cleanliness and quality of the end-products created during the recycling process.

With the in-built future proofing the new versatile MRF will supply the daily demands of Central Demolition for some time with the added confidence of total support from Blue Scotland.



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Investing £3m in Scotland's recycling future

To enable our customers to achieve zero waste inline with the governments recent legislation changes, we are proud to install an all new Refuse Derived Fuel plant designed, built and commissioned by Blue Scotland. The new RDF plant also helps us work towards our own goal of 100% recycling rate on all non-hazardous material.

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Diary of Events



Plantworx 2019

East of
England Arena,
Peterborough
11-13 June 2019



RWM

Building a resource
efficient future

RWM Exhibition

NEC, Birmingham
11-12 September 2019



Conexpo Con/Agg 2020

Las Vegas, NV
10-14 March 2020



Hillhead 2020

Hillhead Quarry
Buxton UK
23-25 June 2020



First time Volvo for Total Reclaims Demolition

Total Reclaims Demolition Ltd of Hucknall, Nottinghamshire, has opted for a Volvo EC300E rigged for secondary demolition duties for the first time.

Adding the Volvo thirty-tonne machine to the fleet is a change to the usual brands associated with this well-established demolition contracting company. "We operate 360° excavators up to 100 tonnes in weight but needed to fill a gap around the thirty tonne mark," says Managing Director, Melvyn Cross junior. "We certainly liked the look of the Volvo offering in terms of the machine's build quality and aesthetics. We've also had some experience in operating them when we've had to hire equipment in and, together with a favourable package on offer including a service agreement and extended warranty, decided to try the EC300E for the first time."

The new Volvo EC300E has been supplied in full factory-fitted secondary demolition specification which includes heavy-duty belly guards, side impact protection rails, full FOGS guarding, heavy-duty guarding for boom and bucket cylinders, X1 and X3 rotation circuits, big bore hammer return line and an automatic greasing system.

The machine is powered by a Volvo six-cylinder engine developing 243hp. Operators can select the best work mode for the task at hand, ensuring optimum performance and fuel efficiency. Modes include: I-idle, F-fine, G- general, H-heavy or P-power, with the machine automatically setting the appropriate engine speed for the work mode and ECO-mode is a new feature that works in G to H (or P) mode. Pump flow is controlled for combined digging and swinging operations to reduce the flow loss through the overload relief valves, while maintaining digging power and maximum swing torque. Eco-mode also provides better fuel efficiency without loss of performance in most operating conditions.

"So far, we've been more than pleased with our purchasing decision. The machine is performing very well and has been very well accepted by our operators," says Melvyn Cross junior.



The all-new Waste Handler

The leading material handling equipment manufacturer Terex Fuchs has recently launched the MHL 310F, which has been designed specifically for waste handling applications. This brand-new model boasts a newly designed upper carriage, two undercarriages and a revolutionary hydraulic system. This combination of features allows the MHL 310F to maximise its ability for effective high-volume handling.

Efficiency, Flexibility and Performance

The new compact model offers efficiency, flexibility and performance; all attributes that feature near the top of any wish-list when it comes to mobile material handlers deployed in the recycling industry.

The demands of the recycling industry are many and varied. However, there isn't a job the MHL 310F cannot complete within a recycling operation, as this diverse handler can sort, move and load a variety of waste materials including; wood, municipal, organic and C & D. With its reversing fans and waste package the MHL 310F can endure demanding conditions such as dust, heat, and continuous loading.

Small but mighty

Its compact dimensions of 4.76 m long, 2.55 m wide and 3.25 m high make the MHL 310F ideal for working within waste transfer stations where space is limit. However, its compact size does not compensate for its incredible power. The MHL 310F boasts an 85kw (Diesel, EU-Stage V) engine and has a maximum reach of 9m. Its efficient and cost-effective engine is compliant with Stage V emission requirements and features intelligent engine management and high performing cooling system which protects against overloading. The MHL 310F is also available with a 75kw zero-emission electric engine, which provides a vast amount of energy and a clear atmosphere, allowing firms to exceed emission requirements.

Operator Comfort

This waste specialist machine also incorporates Fuchs' awarding winning cab. The cab is designed specifically for handling machines and provides unrivalled operator comfort, keeping operators happy and productivity high: thanks to the cab's air cushioned seat, air conditioning, single sliding door, ample leg room and best of all joystick steering. The

windscreen has a negative slant to improve visibility, and the whole unit raises to 5.2m, which provides a clear field of vision.

Gary West, CHS Environmental Depot Manager, comments "It is ideal for our operation, its height and size is perfect for working within our waste transfer station. It is a lot quicker and more responsive than our previous machine. Our operator also loves it, as he finds it very comfortable to work in and easily accessible to check the oil level."

Offering more than machinery

Since 2012 Blue Group have been the UK's exclusive dealer of Terex Fuchs and offers their complete range of material handling equipment to the waste recycling, scrap, port and timber industries. Blue Group's support continues well beyond any equipment purchase with first class aftersales support via our network of fully equipped technical engineers and Blue Spares team.

For further information or to arrange a demonstration, contact Blue Group's sales team on 0345 217 8755 or sales@bluegroup.co.uk.



Compact McCloskey Jaw Crusher crushing the competition

The McCloskey J40 is the ever-popular compact jaw crusher crushing it's competition and leaving them for dust.

At 2.5 metres wide, the McCloskey J40 is ideal for tighter spaces and where a higher degree of mobility is needed but where zero compromise on power will not be tolerated. The J40 jaw crusher exceeds expectations thanks to the heavy-duty cheek plate design, it's enhanced deeper jaw box and faster jaw speed. You can expect the productivity and heavy duty build of the full-size McCloskey J50 jaw crusher but find it in a more compact, mobile package. >





Scotland based Eagle Recycling, part of the Purvis Group, are the recent new owners of a new McCloskey J40 jaw crusher, delivered in custom colours of blue and grey. The firm operate from a number of locations throughout central Scotland and when originally founded in 2004, the company began as an inert recycling centre. As the firm's reputation grew and demand arose, they expanded into plant hire, crushing and screening alongside running a number of tipper and volumetric concrete trucks.

Eagle Recycling now operate a large number of machines, with McCloskey starring amongst the line-up. Recycling inert waste, road construction and demolition waste, to produce MOT type 1 and recycled type 1 materials alongside concrete and recycled washed gravels and top soil for resale.

Having been long used to running competitor machines, the firm took a McCloskey J40 on demo from McCloskeys Area Sales Manager for Scotland, Chris McKinstry. Having worked with Eagle Recycling for a number of years, Chris commented, "They have been long used to running various competitor

machines but upon delivery of the McCloskey, they were instantly impressed by the build quality. The machine performed well throughout the demo and the decision to invest in the McCloskey J40 came easy".

Stuart Bell, of Eagle Recycling added, "The McCloskey presents a number of benefits over the competitor machines we've previously run. The build quality and set up is far superior. The toggle set up and rams for positioning the belt are much better and the machine is much easier to access, maintain and operate. We have no complaints so far".

McCloskey focus on durability, quality and productivity at all times and the J40 jaw crusher is no exception. The powerful yet fuel efficient 225 HP Cat C6.6 engine and 40" jaw opening (feed opening of 40" x 24") is combined with a user-friendly control panel with excellent machine diagnostics packed into one highly portable machine.

Terex Trucks increases productivity at Scottish waste recycling centre

Thanks to its specially designed high-volume waste body, a customized TA300 articulated hauler from Terex Trucks is making light work of clearing waste at a recycling centre in Ayrshire, Scotland.

Glasgow-based Clearwater is considered one of the UK's leading waste management providers. Covering many major towns and cities across England and Scotland, the company's fleet consists of various machines, including articulated haulers, tracked and wheeled excavators, and backhoe loaders.



When Clearwater wanted to offer a customer a more cost-effective service by increasing an articulated hauler's productivity, they knew exactly where to turn: Terex Trucks. "One of our customers was contracted to work at a large recycling and resource management facility in East Ayrshire," says Graeme Hughes, Clearwater's contracts manager. "As such, they needed a 30-tonne class articulated hauler with a high capacity waste body. We discussed this with Grant MacLaine from TDL Equipment –Terex Trucks' UK dealer – and quickly established the Motherwell-based factory could design and build a bespoke dump body for us."

"Given that waste material is generally much lighter than muck or quarry stone payloads, we were able to increase the TA300's standard heaped carrying capacity from 17.5 m³ (18.9 yd³) to an impressive 27.7 m³ (30.3 yd³) – which equates to an estimated payload of just 12 tonnes (13.2 tons) of low density waste," says Grant MacLaine, TDL Equipment's regional sales manager for Scotland. "This additional carrying capacity helps to lower the cost per cubic metre moved. We also added a large dump body canopy, similar to that found on a rigid hauler, to increase safety."

Happy customer

"Taking everything into consideration – operator comfort, price, performance, and service backup – we had no hesitation in placing an order for a Terex Trucks articulated hauler with TDL," says Graeme. "With our customized machine, we're able to unload in around 12 seconds. In our line of work, that's almost

unheard of. Thanks to its additional carrying capacity, we've also been able to reduce site traffic, fuel consumption, as well as the total cost of operation. We're blown away by how much this hauler is capable of."

"From start to finish, the TA300 modification project took just two months to complete," says Guy Wilson, Global Sales Director. "We're thrilled that the customer is happy with the final result. Not only is the TA300 robust, but it's also versatile. This isn't the first modification project we've been a part of. At Terex Trucks, we're committed to customer satisfaction – and depending on the project at hand, that might require some special adaptations here and there."

The power of design

The Terex Trucks TA300 articulated hauler was recently updated with a new transmission, leading to improvements in fuel efficiency, performance, productivity and operator comfort. It is powered by a fuel efficient Scania DC9 engine. The machine produces 276 kW (370 hp) gross power at 1,880 Nm (1,309 lbf ft). Its fuel efficient engine range is globally emissions compliant and meets the requirements of EU and North American legislation without the need for a diesel particulate filter (DPF). This is achieved via the latest generation selective catalytic reduction (SCR) technology, combined with exhaust gas regeneration (EGR) and a variable geometry turbo (VGT).

Thanks to the fully enclosed, oil-cooled, multi-disc brakes at all six wheels, the TA300 is perfectly suited to applications in which there are exposed moving parts – such as at a recycling and resource management facility. Secondary braking is supplied by both the engine brake and the transmission retarder, giving the operator maximum control. This provides improved safety and stability, as well as reduced cost of operation and minimum brake wear.



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

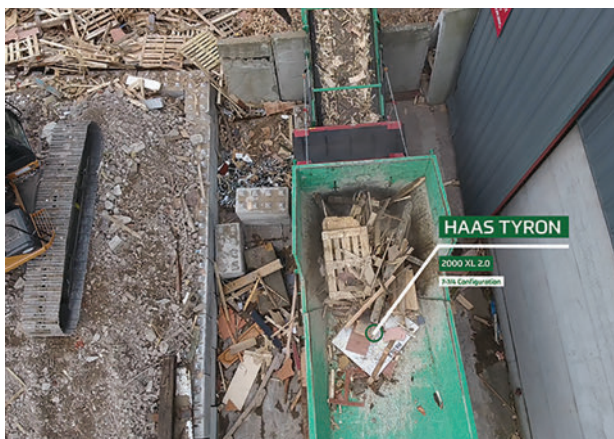
For more information on Elite quality concrete products phone 01952 588 885 or browse www.eliteprecast.co.uk



RTD Crawford go green following success of HAAS Static Plant

RTD Crawford Ltd, established in 1978, is a Northern Ireland based wood processor and recycler. At their Lisbellaw site in County Fermanagh, they operate a state-of-the-art, 12,500m² milling facility, where they produce over 500 different timber profiles.

The company operate a wood recycling facility at their Belfast site, which is conveniently located in the Belfast harbour estate, enabling them fast and convenient access to timber arriving into the dock.



Crawfords process 250T of Grade A and 200T of Grade B waste wood per week at their Belfast site, with the majority coming from the transport and manufacturing industries.

Their processed Grade A wood is sent to their sawmill in County Fermanagh, where it is heat treated and blended with their other sawmill residue. The Grade B wood is processed into Biomass and sent to a power station in County Derry for fuel.

At their Belfast recycling facility, Crawfords operate a static HAAS recycling line. The system consists of a slow-speed shredder, hammermill, oscillating screens and various magnets and eddy current separators, removing ferrous and non-ferrous metals. Through this process, their waste wood is shredded down to <50mm, ready for secondary shredding in the fine hammermill, where it is shredded down to <8-10mm.

Separately, Crawfords operated a mobile slow-speed pre-shredder, which broke down the bulk of the raw waste wood before being processed through their static HAAS line. This shredder was aging, and in need of replacement.

The new shredder needed to...

- Produce a consistent particle size for further processing.
- Match or exceed the throughput of their existing pre-shredder.



- Be compact and manoeuvrable enough to operate around their own, and customer sites.
- Be economical to run.

RTD Crawford investigated the market, and contacted CRJ Services for a solution.

CRJ Services proposed that the HAAS TYRON 2000XL 2.0 would meet and exceed their operational and economical requirements.

The HAAS TYRON 2000XL 2.0 is a powerful, twin shaft, slow-speed shredder boasting high performance capabilities with throughputs of up to 65tph on waste wood. The two shafts can be independently controlled, allowing for greater control over the output product. The ability to independently control, and reverse the shafts also combats the wrapping of long fibrous material around the shafts, reducing downtime spent clearing blockages and wrapping.

The HAAS TYRON series of shredder comes on crawler tracks, with an easy to use remote control, which allows users to effortlessly manoeuvre the shredder around site.

Having investigated the market, RTD Crawford decided to purchase a new HAAS TYRON 2000XL 2.0 pre-shredder. They were no doubt encouraged by the success of their HAAS static recycling system, and the excellent service and support they had received from the German manufacturer.

When speaking to Mark Crawford, Director at RTD Crawford, he had the following comments on the HAAS TYRON...

"After investigating the market, we settled on the HAAS Tyron mainly for its compact size and ease of manoeuvrability over its competitors. We also have found the Tyron very economical to run."



Elite Precast Concrete is one of the leading manufacturers of low-cost precast concrete products in the UK

The business combines the highest levels of customer service with the aim of always being the best value option.

Elite's focus is on driving down the cost base and then passing these savings onto its customers. This enables it to provide a constant and predictable price structure which in turn underpins an ethos of developing customer relationships over the long term. Indeed, over 65 per cent of its clients have done business with Elite on at least two previous occasions.

Clients range from small start-ups and private individuals to international blue-chip businesses. Each one is cherished and each receives the highest possible level of personal and professional service.

Product range

Elite has a huge range of 'semi-dry' and 'wet-cast' products which it supplies to every sector of UK industry imaginable. These include service protection and drainage products through kentledge ballast blocks, safety and security barriers to the premier range of interlocking wall blocks.

Elite is the UK's leading manufacturer of the revolutionary interlocking block systems which are used by thousands of businesses in a huge variety of industrial applications.

There are three types of free-standing interlocking 'Lego' blocks – Legato™, Duo™, and Vee™. Each one is cast from premium quality, high strength (50N/mm²) concrete and incorporates its own integral lifting system. This means that whichever block type you choose you can be certain of getting the ultimate in both durability and flexibility.

The blocks are used in many varied and extremely demanding industries from metal and tyre recycling to radiation shielding (industrial/nuclear and health). Their applications also include being used as bay walls and bunkers, push walls, salt storage, firebreaks, silage clamps, radiation shielding, kentledge/counterweight blocks, embankment retention, site security, workforce protection, ground safety, and much more.

The blocks are cast from high-quality concrete, that doesn't contain any steel reinforcing or recycled aggregates, which means they are Class A1 Fire Resistant. The blocks are recommended by many insurance companies and are approved for use as firebreaks.

Legato blocks Viridor Crayford



The interlocking Temporary Vertical and Jersey barriers are designed specifically to secure a site against unwanted visitors, for use as traffic management, as edge protection and to prevent falling debris from damaging railway tracks, car parks, etc.

Win-win for Network Rail

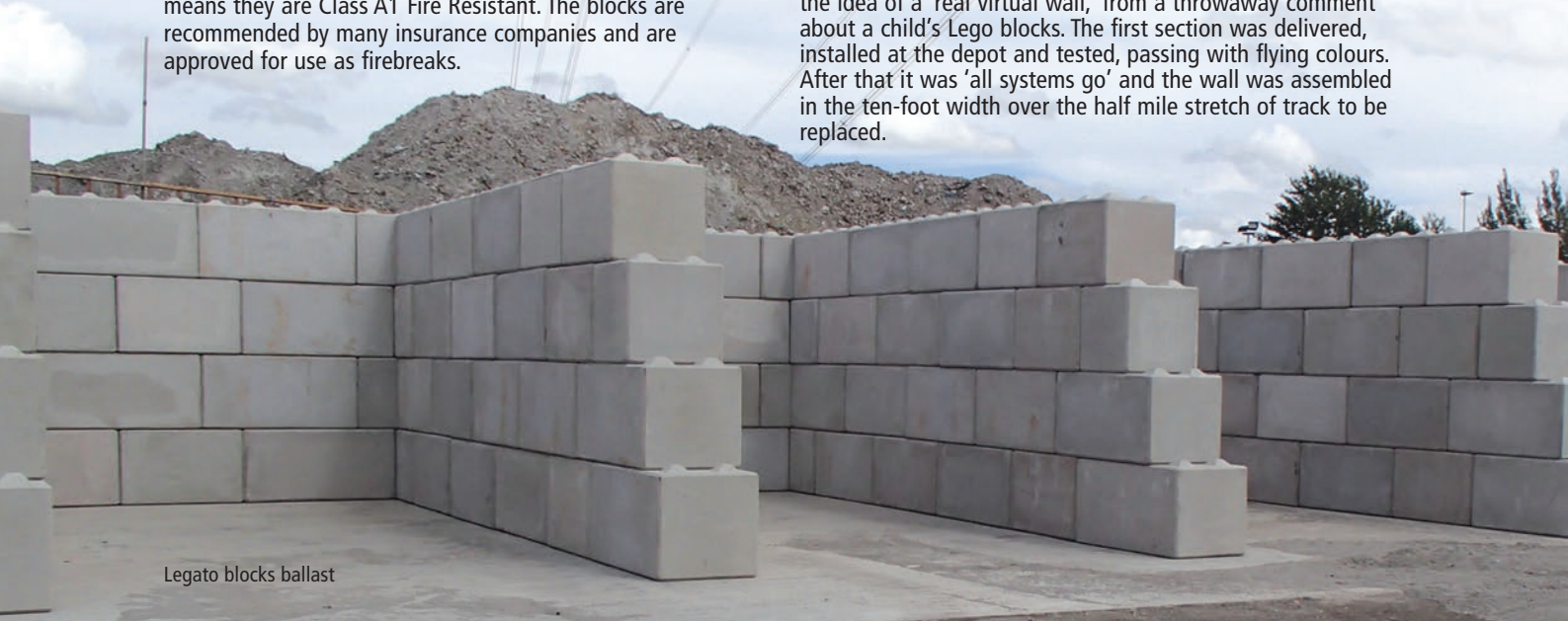
An example of the innovative usage of the Lego blocks was in a project for Network Rail. Signalling renewals in the Cardiff area were problematic because of a lack of access where the installation of two new sets of points to form a crossover on the main lines had been planned.

A four-track stretch of railway was involved but in order to utilise the large crane to install the points and new track panels, an all-line block was required. Carrying out the work with lines open would involve the crane unloading, moving and slewing panels that had a much higher potential to foul the relief lines.

Additionally, operatives would need something to help keep them safe as though they were working in a full possession. Getting an all-line possession at that time wasn't feasible because of the number of trains that were required to run, so to meet the timescales, an alternative was needed.

By thinking outside the box, the project team came up with the idea of a 'real virtual wall', 'from a throwaway comment about a child's Lego blocks. The first section was delivered, installed at the depot and tested, passing with flying colours. After that it was 'all systems go' and the wall was assembled in the ten-foot width over the half mile stretch of track to be replaced.

Legato blocks ballast





This solution saved an all-line possession for 72 hours; it cut customer disruption and cut congestion in Newport and Cardiff stations. So, it was a win-win for not only the project, but the route, the Tocs and Focs, and the travelling public. Additionally, the blocks could be disassembled and used elsewhere for future works to again create a safe environment.

Elite was very proud to have helped to ensure both the safety of the workforce and the completion of the works ahead of schedule. The high strength 'Lego' blocks have an almost endless range of uses and the vision of the Network Rail engineers in choosing the product means that Elite is able to add yet another to the list.

Design and manufacture

All of Elite's products are made to the highest standards at two extensive modern manufacturing plants in Telford, Shropshire which cover 50,000 square feet of production area and two and a half acres of stocking space.

Rigorously applied procedures and the latest production techniques ensure consistency and efficiency, enabling the company to provide high quality products at the most economic prices. All raw materials are fully traceable and that the concrete is monitored for all dimensional accuracy, density, compressive strength on a regular basis.

Technical team

An inhouse support team is always on hand to offer advice, provide estimates and help with project planning. Elite prides itself on its strong reputation for excellent customer service coupled with a flexibility and desire to find solutions to the most challenging of customer requests.

Its customer service and technical departments are renowned for their ability to modify and adapt existing 'off the shelf' products to suit the most specific and exacting of requirements. This approach provides the customer not only with a considerable cost-saving, from that of a totally bespoke product, but also a production and turn-around time that can be greatly reduced.

Testing for quality

The quality and consistency of Elite's products is something it takes very seriously operating within an approved BS EN 1917 quality system with a number of products carrying a BSI Kitemark.

The company is one of the few manufacturers of precast concrete products in the country that can boast of having its own, purpose-built, testing facility. Elite regularly performs a number of tests on both finished products and the materials used to manufacture these products.



Turnkey installations

In addition to the simple wholesale supply business, over the last 10 years Elite Precast Concrete has also developed trading partnerships with a number of strategically placed and highly skilled contractors who can in turn offer anything from a simple off-load and install service (under a client's supervision) to a full turnkey installation.

Service and delivery

Elite can, in most cases, offer delivery times of between 24 and 48 hours from receipt of any order throughout the UK. Anything can be delivered, from one block to many thousands on a variety of different vehicles including flatbed artics and crane offload. FORS Bronze, Silver and Gold along with Tideway, CLOCS and Crossrail compliant vehicles are available. Elite also offers a full install service.

Environment

Because the blocks are made from one hundred per cent natural materials sourced from local quarries, they are also one hundred per cent recyclable at their end of their life. Combined with the 120-year design life, they provide the most environmentally sustainable solution currently available.

Elite's production processes benefit from the most modern and efficient low energy equipment and it embraces best practice in all aspects including rainwater harvesting.

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