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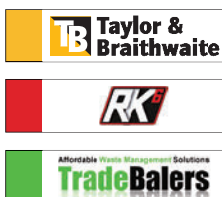
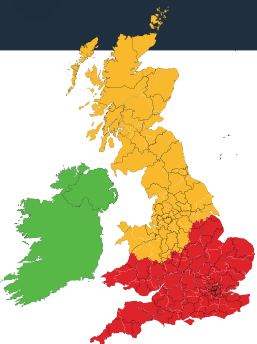
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Welcome to issue 49

As this issue went to press we were once again experiencing our second Siberian blast from the east which has once again taken us by surprise. Hopefully after this last weather front things will settle down and we can look forward to a mild spring and the start of this year's exhibitions.

2018 will of course be a big one for the HUB team as in May we will publish our 50th edition. It seems a long time ago since the idea of the HUB magazine was discussed, and that time has simply flown by. From where we sit today its obvious from the complimentary remarks we constantly receive that the original model was correct as it hasn't needed any tweaking at all over the years. Issue 50 therefore will be our anniversary edition and contain the preview for the Hillhead exhibition.

We are all looking forward to meeting our many clients at the show please pop along and say hello on stand number PC37.

John Edwards
Editor



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Construction machinery in France: back on the high ground



Judging by last year's sales and considering the profession's forecasts for 2018, the French construction equipment market is back on the path towards heights that it has not seen since the middle of the 2000s – but without reaching the summits of 2007 and 2008. "We are in the expansion part of a cycle which will reach a peak in 2019-2020" confirms Jean-Marie Osdoit, the chairman of Seimat, the French trade association for international companies dealing in machinery and equipment for public works, mines, quarries, buildings and lifting. The French construction machinery market indeed grew by 19% in 2017 to reach 50,214 units.

A general upturn

The French market witnessed a similarly positive global economy, with markets up 16% in the EMEA region (Europe, Middle East, Africa), +10% in North and Latin America, +11% in Asia-Pacific, and finally +74% in China, with this country picking up briskly following a severe drop from 2011 to 2015.

According to the figures gathered for Seimat and Cisma (French association of equipment manufacturers for construction, infrastructure, steel and handling equipment industries), sales of equipment in France benefited from an improving general economic backdrop and in particular an improvement in the building sector, at +4.7%, and public works, at +2%(*).

The impact of compact

"Contractors have exercised restraint in their demands," notes Jean-Marie Osdoit conservatively. They took advantage of the provisions of the Macron Act allowing them to overdepreciate productive investments, but without going to extremes, thereby avoiding a negative blowback on the capital investment market. "In the "large machines" category, they often made do with simply replacing items in their fleet, rather than increasing their fleets," explains the Seimat chairman. The figures presented by Seimat confirm this analysis, considering that "heavy" earthmoving machinery saw an increase of 16% as against growth in the compact equipment in the same category of +22%.

This gap illustrates the underlying growth trend in the compact market – sales of mini excavators accounted for 53% of all earthmoving machinery sales in 2017, compared with only 29% in 1998. It also illustrates the growth in equipment rental, whose weight Seimat gauges every year on the mini excavators, midi excavator, skid steer and sub-5,500 kg-wheeled loader markets. Altogether, these figures indicate a 29% increase in sales to rental companies, higher than the rise recorded by compact earthmoving equipment as a whole. It is also true that since it offers immediately-available equipment, rental also traditionally overreacts to trend changes in the construction industry.

A total of 11,574 mini excavators were thus sold in 2017 (+24%) and 1,480 compact loaders (+36%). Midi excavators – 1,773 units sold in 2017 – have not lived up to the growth expectations that were trumpeted when they arrived on the market, observes Jean-Marie Osdoit. This is undoubtedly due



to competition from two rivals: wheeled mini excavators under 6 t and medium tonnage wheel excavators, which manufacturers are continuing to bring out in every greater numbers, says the chairman. "The growing demand for city centre works has fuelled the sales of these wheeled vehicles." The sales of wheeled excavators of 11 t and above increased by 25% to reach 968 units, while crawler excavators above 12 t recorded a 'mere' +16% with 2,231 units sold.

Concrete trucks leading the way

Road building and utility networks machines are experiencing a comeback, with 13,818 units sold (+21%) and +26% for steered rollers alone.

The healthy state of the building sector has stimulated the sales of equipment for concrete, with 1,353 units sold (46%), and mainly mobile concrete mixers – 1,203 units sold (+48%). Displaying flattering figures, mixer pumps and mobile or fixed concrete pumps are still not much in demand in France. This is a cause for concern to Jean-Marie-Osdoit, who believes that building sites would benefit from using this type of machinery which is very popular in Germany.

The recorded sales of lifting, handling and powered access equipment – telehandlers, aerial work platforms and mobile cranes – increased by 12%, with +12% for telehandlers (7,134 units) and for powered access (6,968 units).

Between +4 and +8% for 2018

So what does 2018 hold? Seimat forecasts an increase in sales of between 4.1% and 8% to reach between 52,300 and 54,200 units, with +5% in earthmoving, (+9% for "large" machines, +4% for compacts), +1% for roadbuilding machines, +3.5% for concrete equipment and +5.5% for lifting, powered access and handling. The major project effect, in particular that of the Grand Paris projects, will undoubtedly support sales. "But this type of effect never accounts for more than 10% of annual sales of public works machines in volume," argues Jean-Marie Osdoit.

"Growth will continue, but at a slower pace. We are arriving at a levelling-off point, before the cycle flips over, perhaps in 2019 or 2020."

* See "+ 4.7% for the building sector in France in 2017, and growth set to continue in 2018" and "Upturn in public works to accelerate in 2018", Intermat Blog, December 2017.

Three premières at the Intermat for Kleemann



Kleemann is exhibiting three mobile crushing and screening plants for the first time at the Intermat. The Wirtgen Group France booth will be presenting the new mobile jaw crusher MOBICAT MC 120 Z PRO, the mobile impact crusher MOBIREX MR 110 Z EVO2 and the mobile classifying screen MOBISCREEN MS 952 EVO.



MC120 ZPRO - The new mobile jaw crusher MOBICAT MC 120 Z PRO is specially designed for use in a quarry.

Robust jaw crusher MC 120 Z PRO for quarries

With the mobile jaw crusher MOBICAT MC 120 Z PRO Kleemann showcases its latest development for use in quarries. The robust and high-performance plant achieves an hourly output of up to 650 tonnes thanks to the powerful jaw crusher. The Continuous Feed System (CFS) guarantees the best possible crusher feed. It regulates the material feed depending on the material flow. At the same time it is very economical with its diesel-electric drive and can also be operated with an optional external power supply. To achieve effective prescreening of fines, the MC 120 Z PRO is equipped with an integrated double-deck prescreen with an extra large screening area.



MS952 EVO - The screening plants in the MS EVO series combine flexibility and efficiency

Extremely versatile classifying screen MS 952 EVO

The plants in the EVO series are characterised by compact dimensions, good transportability and flexibility. This includes the new mobile screening plants of the MOBISCREEN EVO series. The exhibited double-deck classifying screen MS 952 EVO is suitable for natural stone and recycling application in changing locations. The plant is very efficient and can process up to 500 tons of material an hour on a screening area of

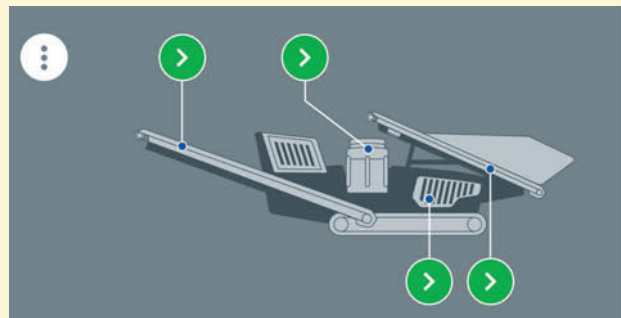
approx. 9.5 m² in the upper deck. As with all EVO plants from Kleemann, all components are easily accessible for convenient maintenance. The screen media change in the lower deck, for example, is comparatively simple due to the lowerable fine grain discharge conveyor.



MR110Z EVO2 - The impact crusher MR 110 Z EVO2 can achieve a high output in natural stone and recycling applications.

Flexible impact crusher MOBIREX MR 110 Z EVO2

The mobile impact crusher MOBIREX MR 110 Z EVO2 is designed both for recycling and natural stone processing. The material is prescreened and levelled with the double-deck prescreen. Thanks to the well thought-out material flow concept, the plant achieves an output of up to 350 tons an hour. The optional secondary screening unit has a very large screening area for a thoroughly classified final product. MOBIREX plants are equipped with the award-winning Lock & Turn system, which guarantees safe maintenance. Access to the plant is only possible via a multi-stage safety system and the rotor can be locked in any position to change the rotor ledges.



SPECTIVE - The new control concept SPECTIVE facilitates the operation of crushing plants and can be operated intuitively via a touch panel.

Simple control with SPECTIVE

With SPECTIVE, Kleemann introduces its new, intuitively operated control concept that supports users with their work. This is achieved by the use of clear symbols that make all plant functions identifiable at a glance. The 12-inch touch panel only displays information that is relevant to machine operation. The operator is guided through the control system in a similar manner to a smart phone, which considerably reduces the number of operating errors. In addition, data on machine operation can be called up in the plant cockpit. SPECTIVE will be initially available for the crushing plants in the PRO series and the latest impact crusher in the MOBIREX MR EVO2 series.



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 www.kleemann.info

Sandvik highlight their best-selling models at Scotplant



The mobile crushing and screening division of Sandvik Mining and Rock Technology will be taking the opportunity of this year's Scotplant to highlight their bestselling models within their mobile crushing and screening portfolio.

These models have been developed with customer's requirements in mind. This ensures Sandvik produces the right equipment, for the right application and with features that ensure maximum levels of productivity with the lowest levels of cost and environmental impact.

The Sandvik product offering provides solutions for virtually any application, but has delivered solutions for companies of all sizes involved in demolition, recycling and aggregate production. Built to the highest possible standards, the product range includes jaw, cone and impact crushers, screens and scalpers.

On display at the Sandvik stand at this year's Scotplant will be:

- QJ341 Jaw Crusher
- QH331 Hydrocone crusher

QJ341, the flagship of the range

The QJ341 mobile jaw crusher is the flagship of the range and the ideal solution for a wide range of applications. Equipped with a powerful, fuel-efficient engine and a C12 jaw crusher, with a large jaw opening of 1200 x 750mm, means it operates in a class of its own.

We have designed the QJ341 with features that ensure continuous, uninterrupted crushing combined with a high degree of operator safety. These include a user-friendly PLC system, load control system for the feeder drive and speed wheel fitted to the main conveyor.

Other key advantages include:

- Choice of 3A fixed speed or Stage 4 Final engine
- User-friendly PLC control system and colour screen allowing visual data output and control
- Proportional control for machine tracking, which allows more controlled manoeuvrability of the mobile unit
- Hydraulically driven cooling fan with auto reverse to back flush dust from the radiator
- Highly efficient hydraulic control system with all controls located at ground level for ease of access
- Now available with an optional double-deck pre-screen with our QJ341+ model.



QH331, high performance, versatility and low cost per ton

The QH331 is a compact, high quality machine designed to meet high product quality demands through the use of the renowned Sandvik CH430 Hydrocone crusher combined with the mobility of a tracked unit. It offers you one of the most versatile units on the market with a choice of six different crushing chambers and a variety of bush settings. Possessing sturdy construction, its power management, coupled with the market leading CH430 cone crusher, makes the QH331 ideal for aggregate production wherever it is needed.

A key attribute of the QH331 is the advanced design of the CH430 cone. It possesses a longer and steeper crushing chamber than other comparable models. The material therefore remains in the crushing chamber longer, optimizing reduction and providing a superior product shape. The CH430 comes equipped with a hydroset CSS regulation system, which allows you to adjust the CSS (closed side setting) whilst crushing, via the main control panel. The automatic setting regulation system fitted will not only optimize production for you but will also keep track of liner wear to minimise interruptions and downtime.

Key advantages include:

- Renowned Sandvik Hydrocone crusher for ultimate performance and reliability
- Remote camera for visibility of the crushing chamber from ground level
- Level sensor to regulate the feed to optimise production, reduction and shape
- Direct drive for optimum efficiency and power transfer
- Easy to maintain, no crusher backing for rapid liner changes
- Available with 13' x 5' / 4 x 1.5 m hanging screen, largest in its class

**The Sandvik stand will be located at: Ave B, No. 2.
We look forward to meeting you there!**



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SCG Supplies Ltd to attend ScotPlant 2018



Since ScotPlant 2016, there have been a lot of developments with leading crushing and screening spares supplier, SCG Supplies Ltd.

Firstly, the company has passed its 10th birthday having been started by its founder, Stephen Grieve in August 2007.

This anniversary coincided with the seventh anniversary of the company forming its strong, ongoing partnership with Bruce Processing solutions, the N.I. based aggregates washing experts who will be ready to give advice on the SCG stand at the biennial Scottish plant showcase event.



Bruce water bath

SCG has also found a new home, having purchased its own yard and warehouse premises on the M8 corridor at Airdrie, between Glasgow and Edinburgh with excellent links both to the north and south.

As Stephen says "with the millions of pounds spent on the redevelopment of the M8 and the Raith Interchange all happening just as we moved, it feels like we couldn't have come across a better location".

As if these occasions were not sufficient cause for celebration, SCG has also been busy attracting some prestigious new brands such as Portafill International's exceptional range of crushing and screening equipment and Tesab Engineering's crusher range.

In the case of Tesab, the dealership was launched with the high-profile supply of their largest jaw crusher to W.H. Malcolm Construction. The 800i which weighs in at around 60 tonnes is now employed at Malcolm's Loan Head Quarry.

The brand that has had most impact on the market recently however, has been Portafill, with many units finding their way into Northern England and Scotland.

As a result, there will be two machines on show at ScotPlant 2018;

The ever popular 5000CT scalper, and the 9000JC Jaw crusher.

The machine is popular with customers because of its small working footprint, ease of transport and simple operator interface. With deployment time on site under four minutes as well as the ability to move from three-way split to two-way split in under twenty seconds, it's little wonder the 5000 is described as "the little beauty" by those who own one.

The other machine making its debut at the show is the much anticipated 9000JC Tracked Jaw Crusher.

The ethos behind this machine is simplicity; simple to set up, simple to run and simple to transport.

With feed hopper sides deployed and locked hydraulically into



Delivery of the flagship Tesab 800i jaw Crusher to W.H. Malcolm

working position in under 40 seconds work can commence but then things get even simpler; all set up adjustments are hydraulic including; overband magnet raise/lower, rebar deflector plate, jaw forward/reverse/jog (while full) as well as fully hydraulic jaw aperture adjustment. The 9000 can even be remotely tracked from the cab of the machine loading it which means efficient one-man operation. The most stunning shift in crusher design is evident when it's time for a service though, with power unit and hydraulics all situated within arm's length, at ground level.

With an all up weight around 30 tonnes and the usual Portafill attention to compactness (only 9m transport and 12m working length) and build quality, Paul Thorne of SCG believes the 9000 should be popular: "we believe there will be an excellent uptake on this machine much like the 5000 over the last two years. We have been surprised how many applications there are now for efficient processing solutions. Fuel consumption, space on the work site and ease of transport, deployment and operation are prime considerations now that buyers are so well informed. Twenty years ago, this mobile processing market was feeling its way but now that it has matured, just crushing is no longer enough; other things come into play such as lifetime costs, including movement costs and residual value. Because Portafill are the originator of this whole compact sector, they take it upon themselves to lead and innovate in all these areas."

"Portafill has a long-established reputation as the premium brand in markets such as Germany, U.S.A, Australia and Norway which keeps resale values very strong, but we are also seeing demand grow for used units here in the U.K. which is a great sign of the progress we are making with the brand."

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The Portafill 5000 CT at work in Middlesbrough

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Paul continues, "One of the other raised areas of customer expectation is back up for the processing equipment they commit to. We have started our mobile service offering now with Andrew Darling able to attend site with a fully equipped service barge to ensure that we are there for customers in the event of a problem. Andrew has a wealth of experience on washing, dry screening and recycling projects whilst he was with NWH group. Allied to our core activity of spare parts and the excellent quality and reliability of the equipment ranges we offer, our intention is that this all adds up to the right package for modern, efficient plant operators".

ScotPlant will not be the only show for SCG in 2018 as they will also be making their usual appearance at the foot of the Hillhead ramp in June. Of course, they will be helping to man their manufacturers stands too so you should be able to find someone to talk to from the company without looking too hard!



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Blue Group appoint Susan Shardlow

Blue Group, a supplier of world leading material handling equipment for a wide range of industry sectors has announced the appointment of Susan Shardlow as Chief Financial Officer.

Working closely with CEO Adrian Murphy, as well as the four owner Directors, Susan will be responsible for all financial matters across the business as well as Governance and Compliance, HR and IT. Susan has previously worked in a number of senior leadership positions within the construction sector, so brings extensive relevant experience, and a strong appreciation of Blue's business categories. Specifically, Susan has worked for Finning International a Caterpillar dealer, Hewden Stuart the major plant hirer company, and Cogen who build power stations for the Waste to Energy industry. She has extensive commercial and corporate governance experience, working in both a corporate and private equity environment. She has also worked on a number of major strategic projects in her career; including ERP implementations, acquisitions and disposals, and delivery of efficiency programs.

Having been in the role at Blue Group since the start of the year, much of Susan's time is initially been spent visiting the different Blue offices to understand the various processes. Susan commented "Presently it's mostly about analyzing the current financial procedures within the business and of course potentially identifying any changes that could have an immediate positive impact on the business from an economical perspective. In the longer term, the focus is on making The Group more 'joined up'. Bringing increased synergy to The Group will make us more efficient and ultimately more proficient, which, in turn, will allow us to focus on what really matters, the customer.

The governance and compliance element of the role will involve ensuring best practice, placing Blue Group as a leader within this area. IT is also likely to take up much of Susan's time as the business is currently implementing SAP across The Group. Something Susan is looking to achieve by the end of 2018.

Commenting on the appointment, CEO at Blue Group, Adrian Murphy stated, "We are delighted to have Susan onboard. Not only does she possess an abundance of financial experience, but the sectors in which she has previously worked are very closely aligned with Blue Group. This is an exceptionally exciting time for the business and it's good to know we have someone of Susan's calibre within the Senior Team to help us meet our ambitious growth plans".

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Double Delight for Warwick Ward (Machinery) Ltd at Dealer Convention




left to right: Jane Whittle, (CNH, Country Network Manager), Paul Hyslop, (CNH, Country Director), Ashley Ward (Warwick Ward, Managing Director), Simon Causier (Warwick Ward, Sales Director), Elsie De Nys, (CNH, Global & EMEA Network Director), Jose Cuadrado, (CNH, EMEA Vice President).

Through great sales and exceptional after sales support, Warwick Ward (machinery) Ltd has been awarded the prestigious status of 'Advanced Dealer' by CASE Construction Equipment. Ashley Ward (Managing Director) and Simon Causier (Sales Director) were presented with the accolade at the recent Dealer Convention held at the Customer Centre in Paris.

Ashley said "This is a fantastic achievement for the company and epitomises our commitment and desire to be the best that we can possibly be as a flagship CASE dealer".

As well as gaining recognition as an "Advanced Dealer", Warwick Ward (machinery) Ltd also won the award for "Best HEAVY LINE Dealer", beating all the competition from across Europe.

Simon added "It's great to get this recognition from the manufacturer. Warwick Ward are well known in the industry as being a specialist in the supply of wheel loaders and excavators and continue to grow the CASE market share in our area."

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Magnetic Separations Ltd expands sales team

Magnetic Separations Ltd. are pleased to announce the expansion of their sales team with the addition of Gareth Bray to the position of Technical Sales Manager, dedicated to supporting the UK waste markets.

Gareth has over 18 years' experience with magnetic and sensor sorting process technologies and plans to develop new, ongoing and existing lines adding more value to our customer's output streams. All this is possible with the help of STEINERT's extensive product portfolio, which includes MAGNETS, HIGH-FREQUENCY EDDY CURRENT SEPARATORS, OPTICAL NEAR INFRARED (NIR) and flexible COMBINATION SORTING SYSTEMS incorporating color, shape, induction, X-Ray sensors and many more for multitasking and batch running multiple types of material.

Paul Gibbard, Managing Director, of Magnetic Separations said, "Having Gareth on board with his vast experience in recycling is already proving successful and has allowed us to be more focused to our customer requirements and concerns for future market demands."

Gareth originates from a technical background as a Technical Service Engineer for Steinert UK and has commissioned some of the largest and most advanced waste plants in the UK. So, he has practical and personal experience with the equipment he is recommending. This is important for the STEINERT UK's philosophy: KEEP IT WORKING, KEEP IT EARNING! And it is maintaining plant availability that has made STEINERT GmbH one of the most successful manufacturers worldwide.

Magnetic Separations Ltd. has had a long-standing partnership with Steinert GmbH for the past 35 years and are the sole agents for all sorting equipment, service and spares in the UK and Ireland.

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Superior expands relationship with Belt Tech to include capital equipment offering

Superior Industries Inc., a U.S. based manufacturer and global supplier of bulk material processing and handling systems, is proud to announce that Belt Tech Industrial has been named a full line dealer of its growing group of bulk processing and handling equipment. For two decades, the Indiana-based company has distributed Superior's brand of conveyor components. Now, with this expanded partnership, Belt Tech will additionally sell and service Superior's crushing, screening, washing and conveying equipment throughout Indiana, Kentucky and Tennessee.

"This expanded partnership with Superior allows us to grow our business in a way that will ultimately benefit our customer base," says Belt Tech CEO, Jordan Russell. "Material producers can expect the same reliable, high-quality customer service that Belt Tech is known for, but we can now support their processing and handling equipment needs as well. It's great to be able to provide that added value."

Founded in 1991 by two brothers and since passed down to the next generation of family leadership, Belt Tech Industrial has built a strong name in the industry for honesty, respect, hard work and company pride. According to Superior, these shared values will benefit material producers in the region looking for solid, dependable partnership from their crushing, screening, washing and conveying equipment supplier.

"We have always tried to partner with manufacturers who provide the best possible support, care about their customers and most importantly produce great products," says Russell. "So when the decision was made to expand our business into processing and handling equipment, Superior became the obvious choice."

In addition to their home in Washington, Indiana, Belt Tech operates from service locations in Illinois and Kentucky.

 www.hub-4.com/directory/16745

Double awards delight for Manufacturer of the Year Weir Minerals



Dan Carr and Chris Wadsworth from Weir Minerals accept the Manufacturer of the Year and Health and Safety Awards at the EEF Future Manufacturing Awards ceremony.

Weir Minerals Europe has been named Manufacturer of the Year by the EEF (formerly Engineering Employers' Federation) at the annual national award ceremony.

The Todmorden-based company competed against other leading manufacturers such as Jaguar Land Rover, Airbus and BAE Systems to claim the title at the

EEF Future Manufacturing Awards in London. It also triumphed in the Health and Safety award.

The panel of judges, made up of business leaders, industry experts and academics, was impressed with Weir Minerals' continued commitment to investing in technology and efficiency, in addition to its 'zero harm' workplace policy.

While the company has a strong focus on health and safety, it has invested specifically in addressing ergonomic and musculoskeletal risks, driving home the message across every service centre and office in its region which covers Europe, North Africa, Turkey and Central Asia.

Jan Peter van Leeuwen, Weir Minerals Europe's Managing Director, said the award highlighted both his team's dedication to health and safety excellence, and the company's culture of innovation.

"This is an incredible team effort," he said. "We are proud to have secured this ahead of so many leading companies and it is an acknowledgement of our exceptional people, who make these milestones possible. We must continue to work closely together to deliver outstanding solutions for our customers."

Stephen Phipson, CEO at the EEF, said: "Weir Minerals Europe is a fantastic example of a company that has moved health and safety from simply 'compliance' to true 'innovation' – reaping the rewards for their efforts. This award is justly deserved, but their real award is the greater employee wellbeing and operational efficiency that high levels of health and safety engagement and standards brings."

Weir Minerals was named as the regional winner for the north east, Yorkshire and the Humber in the Health and Safety category in November last year. Representatives travelled to London for the national ceremony, on January 25, where the company was named Health and Safety winner before being awarded the overall title of Manufacturer of the Year.

The company manufactures wear-resistant, highly engineered processing equipment sold to a diverse range of sectors including mining and minerals processing, aggregates, water and industry in general.

The EEF was founded 120 years ago to support and champion manufacturing in the United Kingdom.

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Sahara Force India is pleased to welcome DUO, a market leading industrial engineering brand, as a new partner ahead of the 2018 season.

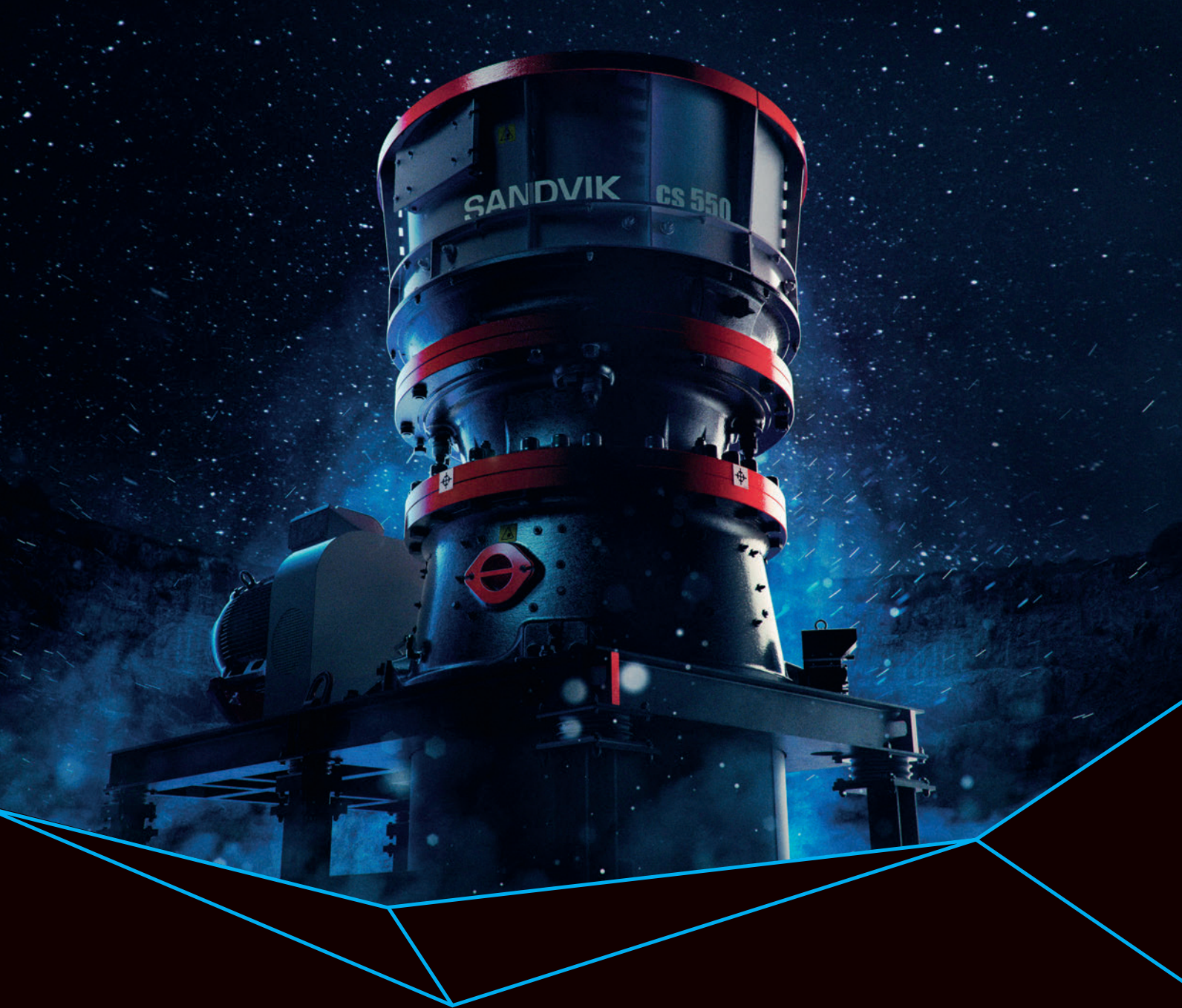


DUO's logos will be visible on the team's 2018 car next week when the covers are pulled off the VJM11 in Barcelona. Branding will be located on the car's rear crash structure and elements of the front wing.

Vijay Mallya, Team Principal and Managing Director of Sahara Force India: "I'm pleased to welcome DUO as our newest partner as they venture into Formula One for the first time. DUO's business shares many parallels with the motorsport industry, especially precision engineering and manufacturing, and Formula One is an ideal platform to showcase their brand and technology."

Alex Moss, CEO at DUO Group: "We're very excited about our new partnership with Sahara Force India. We have been involved in motorsport for some years, but it's our first venture into Formula One. We have huge respect for Sahara Force India and what they have achieved over the last few years. They always deliver outstanding results and often punch well above their weight with tremendous efficiency. We really admire their racer's attitude and it's one of the reasons we chose to support the team. This partnership offers a great opportunity for us to develop our brand awareness on a global scale."

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* Test results and calculations are to be considered as results reached under certain and controlled conditions. These test results and calculations should not be treated as specifications and Sandvik does not guarantee, warrant or represent the outcome of test results or calculations in any or all circumstances.



RUBBLE MASTER becomes majority owner of Maximus.

The RM Family continues to grow...

The Upper Austrian company RUBBLE MASTER continues to expand, and is the majority owner of Maximus, the Northern Irish screen manufacturer. Exceeding our customers' expectations with high qualitative crushing and screening equipment as well as excellent RM service is our key mutual objective.

The strong growth at RUBBLE MASTER in recent years is set to continue in 2018. The success story with rapidly increasing sales figures and the expansion of the RM Team has been boosted by RM becoming the majority owner of Maximus, the Northern Irish screen manufacturer.

Founded in Northern Ireland in 2004 and currently employing 120 people, the company develops and manufactures mobile tracked screens and complements very well the existing range of RUBBLE MASTER products and plans for growth. As a first step, the Austrian global leader in compact crushing has taken over the majority of Maximus.

Both brands will continue to exist and complement each other. The Maximus employees in Northern Ireland, the

management team, the manufacturing locations and the Maximus sales and service network will all remain as they are.

"We are convinced that this partnership is a great opportunity for both companies to meet the future challenges of the market," says Gerald Hanisch, CEO.

"In addition to the advantages for our customers, this takeover opens synergies in many other areas such as with shared suppliers, for example," reports Günther Weissenberger, CFO.

Extending the product range

The expansion also provides RUBBLE MASTER with the advantage of extending the product range. The first outcome of the cooperation between the two companies is already here. The new RM HS3500M compact screen was developed in a joint project between RM and Maximus. This successful cooperation in developing new products is now expected to intensify following the takeover.





About RUBBLE MASTER HMM GmbH

Gerald Hanisch founded RUBBLE MASTER in 1991 at a time when others were tentatively beginning to think about recycling construction and demolition waste. The visionary Hanisch successfully developed an innovative machine more than 25 years ago.

In 1992 RUBBLE MASTER presented the first crusher for the recycling of materials left over from the production of bricks and asphalt or concrete debris. The aggregate obtained this way is used for tennis courts or as filler material, for example. The breakthrough came for the global market leader in 1997. With exports accounting for over 97 % of business, RM is currently represented by 80 sales partners in around 110 countries in all continents of the world. Besides the core markets of Central Europe and North America the company also has satisfied customers in Eastern Europe, Russia, Asia, Africa and South America. For more information please visit www.rubblemaster.com



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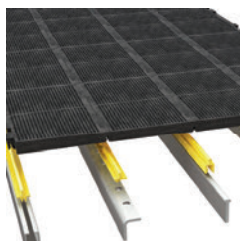
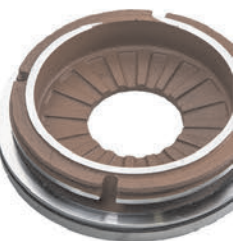
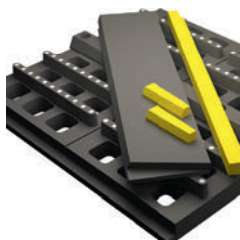
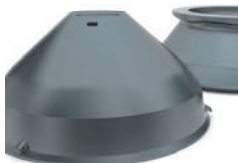
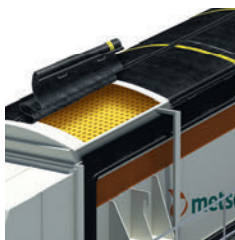
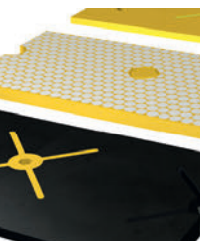
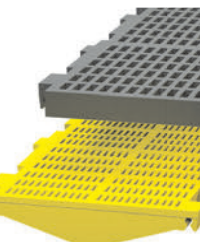
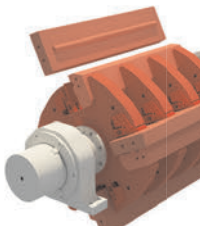
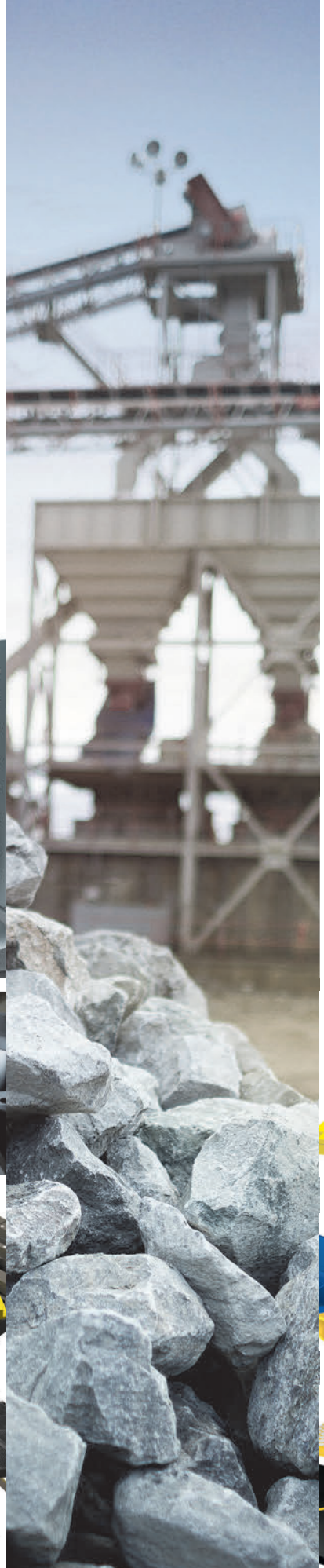
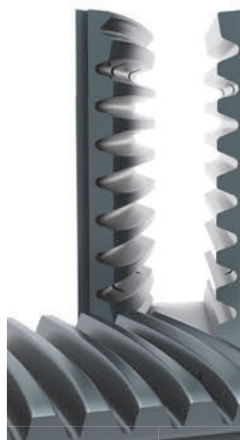
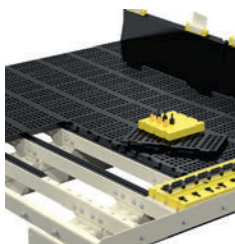
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Bespoke dust suppression

Here at Ace Plant we have been manufacturing and supplying dust suppression equipment for many years. During this time, we have developed individually designed machinery and adapted standard equipment to provide bespoke dust suppression.

With dust at work being one of the largest issues in terms of health & safety we actively engage with our clients and work alongside suppliers to enlarge the range of dust-limitation equipment available.

Environmental responsibility, particularly in the control of water usage, remains a significant factor in the process of developing our new products.

Dust Suppression Units

For simple dust suppression, tractor and tanker combinations are available. Consisting of 5000L (1100gal), 7200L (1600gal) & 9000L (2000gal) versions, our dust-suppression units are fitted with hydraulic vacuum pumps. These pressure-fed units are normally fitted with a rear splash plate, making it particularly suitable for dampening down residual dust on haul roads where high-volume water application is required. We also offer a 2250L (500gal) unit which is fitted with a petrol driven water pump and rear splash plate.

Spinning Disc

In situations where water consumption is an issue, we have developed a hydraulically driven carbon fibre spinning disc assembly mounted to our vacuum tankers. Being gravity fed it uses less water than pressurised systems, the spinning disc makes water usage more efficient, economical and gives the operator greater control.

Rain Gun

When a more targeted approach is required our rain gun provides an alternative solution. Powered by a high-capacity centrifugal hydraulic pump, a throw of up to 70m can be produced. Hydraulically operated from inside the cab of the tractor the rain gun can be accurately directed and is powerful enough to be used for firefighting.

We are pleased to be launching our new range of Dust Suppression Units at this year's HillHead Quarry Show in June.

QuickSpray

When fleet utilisation is an issue, our QuickSpray telehandler/forklift/loader mounted dust suppression unit provides accurate, efficient and effective dust suppression, it also helps to ensure existing equipment fleets are used to capacity. Using the same carbon fibre spinning disc assembly as the dust suppression units this system is gravity fed whilst the spinning disc atomises the water which results in a fine mist that traps dust on the ground and in the air. The spinning disc makes water usage more efficient, economical and gives the operator greater control.



Bucket Dust Suppression Unit

Our patented Ace Plant bucket dust suppression unit fits perfectly inside a loading shovel bucket. Using its own internal petrol driven water pump fitted with a compressor hose coupling for use with crushers etc as well as a rear splash plate our bucket dust suppression is completely self-contained.

Again, where fleet utilisation is an issue this system is perfect for quarries and aggregate handling stations where loading shovels are located.

Dust Fighter

Our Dust Fighter fan assisted range offers a controllable low water usage solution. Complete with remote control our 7500MPT Dust Fighter can be aimed, turned on/off and oscillated at the touch of a button. Fitted with a 2000L on-board water tank and 22KVA generating set our DF7500MPT has up to a 40m throw and is completely self-contained.

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Jamieson Welding – A hidden gem for Hardox® Wearparts

Close to the island of Ailsa Craig, famous for its granite which is used to produce the Olympic curling stones, Jamieson Welding is a gold medal finalist in terms of its wearparts experience across South West Scotland and beyond. HUB-4 took a trip to Jamieson Welding in Girvan, Ayrshire, Scotland to take a look at what makes them so special, and why SSAB have appointed them as their latest Hardox® Wearparts Centre in the UK.



L to R: Steven Haugh, SSAB Regional Sales Manager, Allyson Jamieson, Operations Manager, Allan Jamieson, Managing Director, Nanette Jamieson, Business Development Manager and Brendan Perry, Wear Services Manager for Hardox®

One of their key strengths is that they are a highly-tuned family business with each member playing a pivotal part in the development of new ideas and processes. The team comprises four members, Allan Jamieson, Managing Director, Nanette Jamieson, Business Development Manager, Allyson Jamieson, Operations Manager and Elaine Jamieson, Finance Director. Their wearparts experience comes from nearly 40 years of supplying the demanding scallop fishing industry where the parts are tested against the fiercest of elements, the Scottish open cast mining and quarrying industry, where wearparts are critical in ensuring a smooth operation is maintained, and more recently the renewables sector where parts must be produced at extremely high quality for long-term continual use in the UK's windfarms.

We talked with Allan Jamieson, Managing Director who gave us a full tour of the facility "We are very excited about joining the Hardox® Wearparts Centre Network within the UK and look forward to working as part of the team. We have had a long-standing partnership with SSAB for over 30 years now and have been using Hardox across various industries where it's been very successful for us. We've recently invested £4 million in expanding our state of the art facility here which includes a 300tonne 3m press break, automatic shot-blasting, powder coating, profile burning heads, plasma cutting, high quality laser cutting, highly desirable waterjet cutting and extremely efficient robotic welding. In all, a full fabrication facility.">

Temperature controlled storage for Hardox® wearplate





Automatic Shot-blasting Facility



Powder Coating

"On our first machine we have two profile burning heads and one plasma on a 5m x 2.5m bed and are able to cut material up to 200mm thick with the profile burning heads. The plasma head has a 200amp plasma power source and can cut up to 20mm thick. But because we wanted to supply higher quality profiles without any flame effected areas to our clients, we installed the two waterjet cutting systems, which are continually upgraded every two years. This allows us to handle 4m by 2m wide material and cut profiles of up to 150mm in thickness. Both these machines have a dynamic tilting head meaning that we always accomplish a straight edge cut of exactly 90°. This means that the materials properties are unaffected, and it can proceed straight through to welding. Because of the waterjets versatility we can even accomplish very small 2mm tapping holes through 150mm material with no heat effected zones at all. These machines allow us to offer our clients profiles of any shape with holes of any size without effecting the quality of the Hardox wearparts and offer a full certificate for the plate without having to retest."

Following Allan through the facility he pointed out "Here we have our laser cutting machine, it's a 3m wide bed with

a 3KW laser allowing us to cut material up to 20mm in thickness. Again, with the laser we also accomplish an accurate straight edge cut of exactly 90°. The laser also allows us to productively cut many different material types. With the combination of the waterjet and laser cutting facilities we offer a new Hardox® Wearparts Centre that can handle Hardox 400, 500 and 600 material grades, full profiling, cutting, welding, and fast turnaround of wearparts back to our clients with no heat effected areas at all, meaning that no quality is lost in the materials hardness, as these processes cut down additional work to the wear plate."

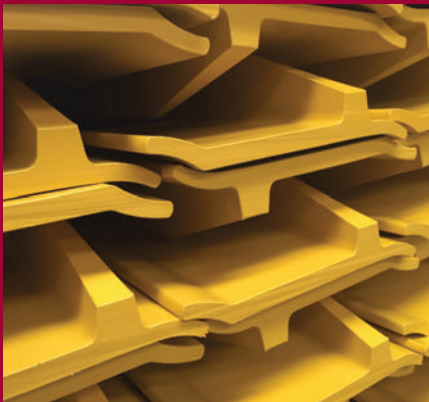


Waterjet Cutting

Nanette Jamieson, Business Development Manager joined us to talk about the robotic welding process that they have invested in "Quite early on, we identified an opportunity in the robotic welding market across the UK to be able to supply our clients with a consistent high quality of welding and we now have five robotic welding machines which can handle any amount of welding that we give them. We have 3D modelling software which we use to create each bespoke programming job for the robots and each station can fully manipulate the fabrications to be welded synchronising



Robotic Welding

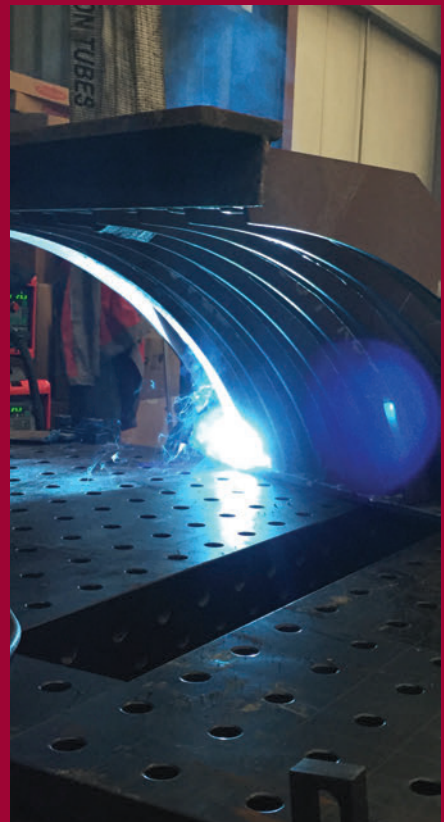


Completed powder coated wearparts

with the robot. These stations can handle up to $\frac{3}{4}$ tonnes in weight, and we can operate all the robots at once if required, and five robots working 24/7 for a week would equate to around 180 human welders working that same period. Another big benefit of robotic welding is that all our robots meet the requirements of all international coding standards including ISO, AWS, ASMI, and NORSOK, meaning that we can offer fully coded welding giving identical consistent welds, plus we can vary our skill set accordingly."



Allyson Jamieson, Operations Manager told us a little more about Hardox® "We carry around 300tonne of steel mostly comprising of Domex® & Hardox® at any one time here in Girvan and it's all stored in this bespoke storage facility which is fully temperature controlled using a biomass boiler. This keeps the material in a brand-new state, at a constant optimum temperature where it doesn't condensate, so its preserved perfectly. We work very closely with SSAB in terms of product development and training to make sure that we are always at the cutting edge of Hardox® technology and are looking forward very much to driving the business forward as a brand new Hardox® Wearparts Centre. Both Allan and I are fully qualified welders meeting all the required welding industry standards which is a huge benefit when programming the robots and understanding the overall welding process around Hardox® wearplate. We know that we have the experience here to be able to deliver the high quality of product required by SSAB every time to all of our clients."



For more information on Jamieson Welding please visit www.jamiesonwelding.com or call +44 (01465) 713790 and to learn more about Hardox® please visit www.hardoxwearparts.com



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McLanahan Mobile Solutions (MMS) can provide all your crushing, screening, recycling, and material handling needs

In today's market, producers are looking for solutions that will have them up and running as quickly as possible, while also providing quick payback on their investment. Since 1835, McLanahan Corporation has provided processing solutions to meet customer expectations, backing this with 24/7 customer service and support. McLanahan Mobile Solutions (MMS) continues this effort by offering a full product range that delivers improved productivity across a variety of industries and applications. The MMS line of equipment is specifically designed to be compact, efficient and reliable, focusing on profitability and maximum up-time.

Our design makes set-up and tear down faster and easier, delivering a return on investment for complex sites and short-term jobs. The modular construction of these pieces of equipment offers easy access for maintenance, as well as easier and cheaper transportation between sites. MMS also utilizes class-leading components that are standard across the entire range of mobile systems to deliver a lower cost of ownership.

McLanahan Mobile Solutions (MMS) can provide all your crushing, screening, recycling, and material handling needs.

Crushing

MMS Crushers are designed to work as part of a multi-stage crushing circuit or as a standalone unit. They provide consistently sized material, deliver maximum up-time and create an overall more profitable operation for a wide range of industries and materials.

All MMS Mobile Crushers can be adjusted to account for changes in product size requirements and produce minimal fines during operation. Tramp protection is built into each MMS Mobile Crusher to save on wear and tear, minimizing maintenance costs and downtime. All MMS Crushers meet local transportation regulations and are quickly set up to get operations up and running.

Screening

The MMS Screen line screens and scalps materials utilizing one of the longest screen boxes in the industry. Used in applications such as quarrying, waste recycling, construction and demolition, composting, and mining, MMS Mobile Screens are highly versatile, high-capacity machines. MMS Mobile Screen can increase a company's bottom line with high performance standards and tight size specification control. A variety of screen media is available to meet your application's requirements, and you will save time and money with minimal service and maintenance requirements.



Recycling

Designed to be heavy-duty, as well as highly manoeuvrable, MMS Mobile Trommels provide accurate and efficient screening and separation and are ideal for processing materials such as C&D waste, compost, topsoil, ash, wood chips, food waste, aggregates and many other forms of municipal solid waste.

The self-cleaning drum eliminates plugging and keeps sites screening in even the most challenging applications. MMS Mobile Trommels can be designed with a variety of screen and drum options. MMS Mobile Trommels meet transportation requirements and can be set-up quickly to get operations up and running in a short time period.

Material Handling

MMS Mobile Conveyors and Feeders are the perfect complement to both mobile and static crushing and screening equipment. MMS Mobile Conveyors offer material movement from 20 ft. (6m) to 80 ft. (24m) and can handle anywhere from 50 tph to 750 tph. MMS Mobile Conveyors and Feeders improve productivity by being easy to transport and set-up, and can move materials such as aggregates, construction and demolition recycling, mining, top soil and compost, and more. Like all MMS equipment, Mobile Conveyors and Feeders are designed to meet transportation requirements and get operations up and running in a short time period.



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Vortex Titan Series TSG gate handling granite rock

A regional rock quarry mines and supplies aggregate-based construction materials used in building highways and railroads. The company was searching for a solution to shut off a stream of 2cm (.75in) granite rock from the storage silos to the loading trucks below. The challenge was to find a slide gate that would offer a longer life than average slide gates due to the abrasiveness of the granite rock it was handling.

Vortex was contacted to find out if they had a slide gate that would offer longer life than gates they had previously used for their abrasive granite rock material. Vortex was developing a new gate to handle abrasives and viewed this application as an excellent opportunity for their research.



A 60cm (24in) gate was produced and installed. During a two-year period, while working with the company, minor design changes were implemented that enhanced the performance of the original gates. Selected changes were considered and incorporated into a Vortex product now known as the Titan Series TSG Gate. The TSG features an abrasion resistant blade, replaceable abrasion resistant liners, and a displacement end pocket that prevents material packing upon blade closing.

The company has been impressed with the performance of the TSG in handling their material. The TSG has been in place for eight years and offers much improved valve life-cycle costs for an industry that wears out and replaces equipment quite frequently.

The plant superintendent comments "Finding equipment that offers longer life is always on our minds. The Vortex valves are providing exactly that!"



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Exceptional sand and gravel processing for Mick George Ltd

Mick George Ltd has grown to become one of the leading suppliers to the construction industry in East Anglia and the East Midlands with a commercial fleet size of 400+ HGV vehicles. Specialising in bulk excavation, demolition & earthmoving services, ready mixed concrete, a wide range of skip hire and waste management services, commercial waste service and aggregate supply are driven by an extensive network of operating sites.

Strategically located across their operating region these 30+ sites include sand and gravel sites in East Anglia and Cambridgeshire, hard rock limestone quarries, extraction sites, landfill, transfer stations, concrete batching plants, state-of-the-art recycling centres and soil washing facilities.

Recently the company has added to its portfolio with the addition of a new sand and gravel operation at Bridge Farm near Chatteris, in the fenland district of Cambridgeshire where an irrigation reservoir will be constructed. This new plant will supply sand and gravel to Mick George Concrete Plant.

Although the area has been quarried before, the new Bridge Farm site was a greenfield site containing deposits of sand and gravel to an average depth of 6 metres, with an estimated reserve of 780,000 tons.

After researching the market for a wash plant and following site visits and consultation the Mick George Ltd team selected a low-level Terex Wash Plant based on an Aggwash 60 which has been supplied by the English and Welsh dealer for Terex Washing Systems - DUO (Europe) Plc. 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.

Having their plant specification in place the site was then prepared, and lagoons created with the plant installed, commissioned and in operation by July 2017.

The sand and gravel plant:

The award-winning Terex® Aggwash™ 60 is a new modular wash plant that brings together for the first time, rinsing, screening, scrubbing and sand washing capabilities on a



single transportable chassis. Primarily designed for the processing of construction and demolition waste but equally suited to virgin material applications; the Aggwash™ 60 can produce four grades of aggregate and up to two grades of sand.

Capable of operating at 60tph the Terex® Aggwash™ 60, 2-deck modular wash plant is fed with 'as dug' material via a 6m³ hopper feeder. This material is then conveyed onto the 8 x 4 single deck rinsing screen which is fitted with a half-deck impact protection deck to wash the oversize and sand, with all +40 oversize being fed via a chute to stockpile which is then utilised for restoration projects. A split bottom deck, 2mm and 5mm provides the feed to produce the require sand.



John McGlinn – DUO shakes hands with Simon Bateman - QM



The Bridge Farm AggreWash™ 60 consists of a Linatex 100/100 pump and a G4 375 cyclone to produce a clean in-specification sand which is then delivered via integral conveyor and stockpiled.

Any remaining material then feeds 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 25mm abrasion resistant blades. The blades convey the material from the feed end of the scrub to the 8 x 4 double-deck rinsing/sizing screen which splits the required products of 10mm, 20mm and 40mm aggregate which are then stockpiled via integral conveyors.

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 exits the main discharge of the PowerScrub™ Logwasher onto a high-energy 8 x 4 part-rinsing sand screen which is capable of de-watering up to 70tph.

The initial section of this screen is fitted with spray bars to rinse off any sand or grit residues produced during scrubbing. The rinsed grit is captured in a partial catch box under the screen and is piped to the sump tank below the hull to join the trash screen underflows. This sump tank is fitted with a 100/100 centrifugal pump which pumps this dirty water back to the AggWash™ 60 sand plant to recover any sand and make maximum use of internal water. Sand is then delivered by conveyor to stockpile.

Simon Bateman – QM, commented, "This is the first plant we have purchased from DUO and since we commenced operations back in July 2017 it has worked very well. Currently we are feeding the plant with a clean material which we are processing at 80tph with the cyclone doing a great job producing sand which is 13% dry straight off the conveyor, overnight dropping to 8% and after a week 6.9%.

John McGlinn – Sales Manager DUO, added, "The Terex® AggWash 60 is an ideal plant for Mick George Ltd offering a fully modular, pre-wired and pre-plumbed electric powered wash plant that will fit in a relatively small footprint. It offers a quick set-up time and can easily be moved to any of Mick George Ltd's sites as required. With its heavy-duty robust build, it is ideal for rugged operating environments and offers an environmentally friendly operation with zero exhaust emissions."

Simon continued, "We are working 5 days a week and achieving approximately 800 tons per day; since July we have processed 75,000 tons of very saleable material with no quality issues whatsoever."

Total Solutions:

Terex Washing Systems provides cohesive solutions for all material and mineral washing needs through their English and Welsh dealer - DUO. Focussing solely on providing solutions to quarry, aggregate, mining and C&D recycling industries it is dedicated in providing reliable, high quality and very productive equipment. This is achieved through a broad product portfolio which offers modular, mobile and static wash plants with the ability to work in many applications. Meeting individual materials and mineral washing needs to achieve today's stringent specifications of clean material is at the top of the agenda.

The Terex Washing Systems portfolio offers excellent reliability, ease of transport and fast onsite installation, which are key features of the innovative washing solutions - the AggreSand™ and AggreScrub™ Range.



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Michael Dunne
EMEA Business Development Manager



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Our growth into a single-source supplier is a result of feedback from our long-term customers. Within the Rock Face to Load Out segment of the aggregates industry, our partners in distribution and material production needed better – better products and better service. Since 1972, Superior has built our brand on better and now we're taking that same philosophy to crushing, screening and washing. We're ready to help you succeed.

CRUSHING EQUIPMENT | SCREENING EQUIPMENT | WASHING EQUIPMENT | CONVEYING EQUIPMENT



CONVEYOR COMPONENTS | PORTABLE PLANTS | CONSTRUCTION MANAGEMENT | AFTERMARKET SERVICES

Providing Apprenticeships in the year 2018



If you are an employer with a pay bill of over £3 million each year, you will have been paying your monthly levy into your digital apprenticeship account since 6 April 2017. It is fair to say that there has been much to learn and implement in the last 12 months and there is still much to do.

Whilst there has been a huge amount of confusion, concern and reports of a decrease in apprenticeship starts, we believe that the scheme brings many positives and, if managed and delivered correctly, the apprenticeship reform will put employers back in the driving seats of business skills and learners at the heart of apprenticeship programmes.

Our Apprenticeship Journey so far

We were introduced and encouraged by our customers in the Minerals Extraction industry to support them with apprenticeships. Each customer, acutely aware that, with an average workforce age of 50+ years, looming retirements and a shortage of skills, they need to consider how to better attract new talent into the industry whilst investing in their current workforce and utilising their levy bills.

Our commitment to deliver quality training and to work with our customers to provide training and qualifications that are relevant to their business operations has enabled Mentor to evolve once again. Our application in 2016 to become a Lead Provider of apprenticeships was successful and we were delighted to be awarded this status in early 2017.

Working with Customers and Industry Awarding Organisations

The Minerals Processing and Extractive industry has taken the bull by the horns; industry employers have joined forces and worked with the industry's Standard Setting Organisation, MP Futures, to develop apprenticeship standards relevant to the job roles and recruitment opportunities within their businesses. We too have supported MP Futures in their quotation requests when establishing a cap for their standards and have worked directly with employers to create the apprenticeship programmes that they want.

The first standard approved was the Mineral Processing Mobile and Static Plant Operator Apprenticeship. We are currently awaiting allocations of funding caps in order to implement Weighbridge Operator and Laboratory Technician apprenticeships into the Mentor business.

How our Mobile and Processing Plant Operator Apprenticeships work for the industry

Apprentices on our programmes gain the required knowledge and training needed to become a competent operator and carve a career in the industry. They will receive a range of mandatory specialist training delivered by expert instructors and assessors, including both the theoretical and practical units required to achieve the standard. Employers can select one of our six specific programmes most suited to their business:

- Aggregates Bagging Plant
- Aggregates Hard Rock
- Aggregates Sand and Gravel
- Asphalt
- Concrete Products Manufacture
- Ready Mixed Concrete

Apprentices will spend 20% of their time completing externally delivered training courses such as Manual Handling, Mobile Plant Operations, Working at Height and IOSH Working Safely. They will also have structured work based learning objectives to complete whilst onsite away from their day to day duties giving them a holistic view of the business and enhancing their knowledge in their role.

Making the Most of the Apprenticeship Reform

- Collaborate as industry professionals – if you have a job role with a high volume of staff that you know other organisations have, consider creating an apprenticeship standard. It won't be easy but it will allow you to take control and create a training standard that works for your industry and allows you the flexibility to create a programme with your provider that works for you
- Engage with training providers early on – good training providers should be prepared to work with you during the development of the apprenticeship standard and create quality, commercially competitive and structured programmes that meet the apprenticeship standard
- Consider all training aspects of the role – look at all of the skills, knowledge and experience that the employee would need to be able to demonstrate competence and build on these
- Off the job training – this has caused some major concerns and does prevent some roles being run as apprenticeships. We have worked with industry experts and employers to

create work based learning records that allow us and the employer to ensure the guided learning hours are met to demonstrate the required 20% off the job training

- Health and Safety Training – this can be a fundamental training requirement for many roles- from our experience if you can map this training accurately to the standard there will be no problems with using your levy to pay for this. Our programmes incorporate Health and Safety as it forms the basis of everything Mobile Plant Operators do
- Look at your current workforce – you don't always have to add head count- invest in your current workforce, enhance their skills, knowledge and experience and promote from within

Apprenticeships in the Future

It is no shock that apprenticeship starts have decreased and as with any change, it takes a while to settle and understand the new rules. That said if you take a common-sense approach, put the learner and employer at the heart of the apprenticeship programme, take the time to understand their needs and map all training back to the standards, you cannot go far wrong – which is what we believe provides employers with an apprenticeship service that will add great value.

Tracy Colton, Head of Apprenticeships said: 'We are confident that our programmes fit the needs of the employers and are committed to adapting them to ensure the apprentices receive training that is fit for purpose. The various pathways we can deliver offer a structured route to competence that will be significant to the industry'.

For further details or advice please get in touch with our apprenticeship team on 01246 263443 / tracy.colton@mentortraining.co.uk

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Uncompromising secondary Crushing

There is no hiding their enthusiasm when the "decision makers" at Vogelsberger Basaltwerk GmbH & Co KG, VBW, part of the Dressler Verwaltungsgesellschaft GmbH group of companies describe their latest edition, the optimally designed Sandvik CS550, a powerful and reliable high-throughput unit that delivers precision and quality at the secondary stage. The Büdingen-Rinderbügen quarry in Wetteraukreis, Germany, has been supplying the basalt that is characteristic of the Vogelsberg landscape since 1963. The basalt is currently quarried and reduced to gravel, chippings and fine flint, as well as crushed sand. The first step of the modernization programme was to replace the secondary stage crusher – a 1650 cone crusher that had been in operation since 1984 – with the aim of improving capacity and product quality. Always satisfied with the service and support from Sandvik, VBW's decision makers favoured replacing the crusher with a Sandvik CH-series Hydrocone, even though they knew this decision would also impact operation of their primary crusher. However, at just the right time for VBW, Sandvik announced the new CS550 that was even more ideal for their requirements, any final doubts they might have had were quickly dispelled by running process simulations with Sandvik's Plant Designer Programme, featuring data from their own basalt. This new innovative cone crusher uses a range of familiar components from the proven CH crushers and operates at higher pressure levels compared to traditional CS crusher, has low-maintenance and many safety features and is less sensitive to material feed variations, for example than a secondary crusher from the CH series.

Putting theory into practice

The eminent suitability of the CS550 as a viable alternative to the CH-series for secondary stage crushing at VBW quickly became clear. The large C-chamber intake to match the jaw crusher in the primary stage quickly "swallows" the crushed material of 250 to 350 mm in feed size, and thus offers the possibility to produce large volumes of the final grain fractions even at the secondary stage, while ensuring a high reduction ratio and an excellent shape of the end product. Between 250 and 300 tonnes of material per hour can be processed, with seemingly no effort, to the target particle size of 0/56 mm, with the proportion of the preferred particle size of < 32 mm being around 80 percent. The wide range of additional settings, together with additional, larger throws of 24/28/32, 32/36/40 and 40/44/48 mm provides excellent processing flexibility if this should be needed. The reduction of fine material that is required is a strikingly positive feature compared to the old crusher. The Sandvik CS550 also clearly meets VBW's requirements in terms of oversized particles (>32/X).



Automation, control and ease of access

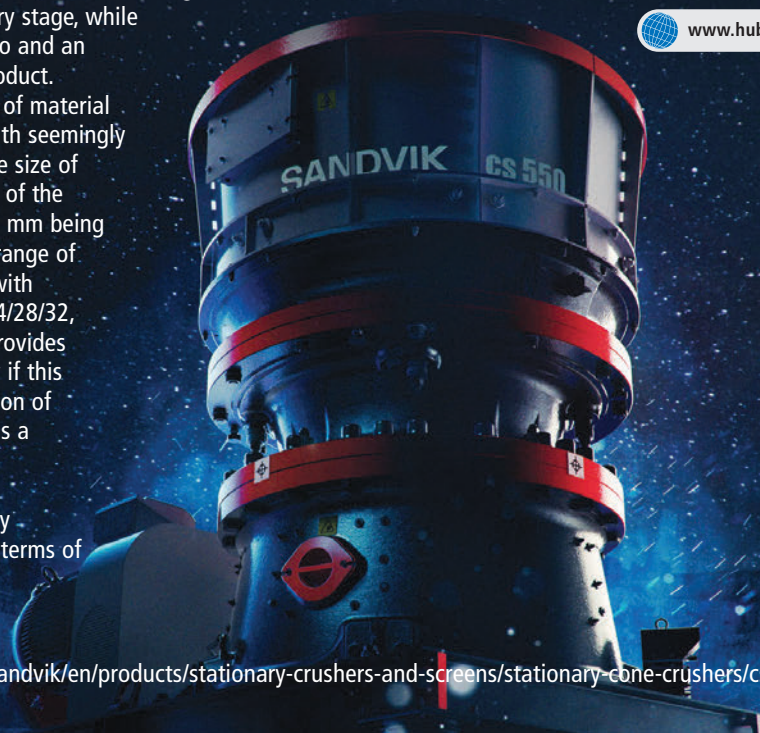
Of course, the Sandvik CS550 comes as standard with a modern crusher control system. It uses Sandvik's latest automation and control system and is state-of-the-art in terms of automation and machine/process control of the crusher, supplying a wealth of valuable data. It optimizes operation in correlation to throughput and reduction ratio and adapts the crusher to suit different operating conditions, thereby ensuring that an optimum level of consumption is always achieved in terms of energy efficiency.

Technical data

CS550

Max. throughput capacity	700 t/h
Max. feed size	F100=432mm; CSS 200mm
Configurations of crushing mantle	EC and C
Configurations of crushing cone	A, B and S
Motor output	330 kW
Side setting	24 – 48mm
Weight	24,600 kg

www.hub-4.com/directory/296



<https://www.rocktechnology.sandvik/en/products/stationary-crushers-and-screens/stationary-cone-crushers/cs550-cone-crusher/>



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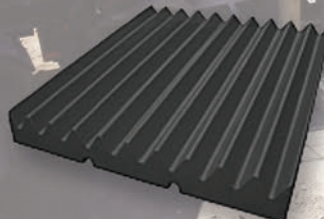
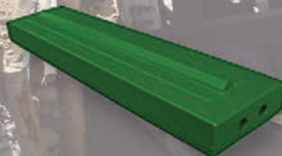
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CMB International will launch a new tracked version of the RC150 Rubble Crusher at Hillhead 2018

As an established manufacturer and service provider in the aggregates industry CMB International have utilised their in-house expertise at their Ravenstone HQ in Leicestershire to develop the tracked version of the existing RC150 Rubble Crusher. The new crusher will be on demonstration at the Hillhead 2018 Exhibition, which will be held at the Hillhead Quarry, Buxton in Derbyshire from the 26th - 28th June.

Martin Brough – MD, comments, “We are very excited about the new tracked version which contains many new innovative features. The plant uses the successful 650mm x 350mm single toggle jaw crusher from the RC150 plant, with the addition of hydraulic setting adjustment and direct hydraulic drive. Weighing in just under 6 tonnes the crusher is mounted on a high speed VTS track-set with interchangeable rubber or steel track options.”

Features:

- Transportable by 20' container, without dismantling.
- Large capacity fuel tank.
- Radio remote control.
- Euro3B/Tier 4 final Hatz water cooled engine. Tier 5 options available. Lesser regulated area options available.
- Product conveyor options, interchangeable.
- Direct feed hopper, or vibrating feeder with by-pass grizzly and rubber liners.
- Other hydraulic accessories and PTO options powered by the on-board system.
- Encapsulated flow path for dust reduction.
- Low noise engine canopy.

The ULTIMATE machine.

The RC150 Rubble Crusher is the ultimate, self-contained mobile crusher; a simple but extremely effective machine. A robust build coupled with minimal maintenance the RC150 is easily transported to your destination of choice to crush or recycle material, with immediate start-up to produce crushed material. The RC150 Rubble Crusher has numerous applications:

- Recycling
- Demolition
- Infrastructure
- Relief Aid
- Medium sized aggregate crushing applications

The advantages of the new RC150 Rubble Crusher enable the user to become time efficient and eliminate unwanted costs by crushing on site enabling re-use immediately.

Environmentally friendly, the RC150 Rubble Crusher is a true ‘green’ machine with huge cost savings instantly available eliminating landfill costs, skip hire, transportation costs, external crushing and bought aggregates from quarries all removed from the processing equation.

A full technical specification for the new tracked version with typical product analysis will be available on request at the forthcoming Hillhead show or by calling +44 (0) 1530 563600 or email sales@cmb.uk.com expressing your interest.

Come along and see our amazing new variant of the RC150 Rubble Crusher on stand A19 at the Hillhead show



www.hub-4.com/directory/185

Longcliffe Quarries Ltd make Jaw crusher history for Metso UK



In the summer of 2016 at Brassington Moor Quarry in Derbyshire's Peak district, Longcliffe Quarries Ltd invested in the installation of the first fixed Metso C160 (1600 x 1000mm) Jaw crusher in the UK. Up to this date, the biggest C Jaw running in the UK was the C160 on the tracked LT160 Loko Link system at Swinden quarry.

Longcliffe Quarries LTD supplies a wide range of speciality high quality Calcium Carbonate products in both granular and power format into several manufacturing sectors which requires a flexible approach to production always.

Over several years, the efficiency and reliability of the existing Primary Jaw Crusher had started to deteriorate which was impacting on the overall production of the site. Therefore, it was decided at the end of 2015 to investigate replacing the Primary Crusher to improve the operational efficiency and reliability. Discussions took place with several manufacturers to establish which jaw crusher would fit best Longcliffe's requirements. After extensive feasibility studies the Metso C160 became the preferred option.

Metso UK assisted Longcliffe's management team to model various operating scenarios to satisfy the long-term objectives. After reference visits to view the new C150 in operation at Backlane Quarry and LT160 at Swinden Quarry, Longcliffe's project team had the confidence to compile their capex request complete with recommendations on crusher size. Detailed proposals were ready for the board approval in March 2016 and in early April 2016, the order was placed with Metso UK to supply and install the C160 at the end of July 2016.

Metso appointed Roltech Engineering Ltd as their installation partner to make the necessary changes to the existing support structure and chute work required to complete a successful installation of the C160 into the existing Primary Station.



Hydraulic lubrication pack with control panel and auto lubrication panel

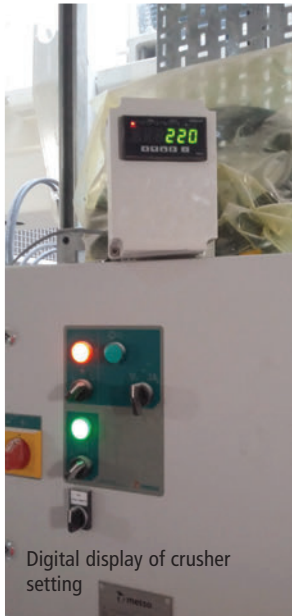
Roltech took on both principle designer and principle contractor's roles under the CDM regulations and had a full-time site manager supervising the overall installation, with Metso engineers building up the crusher from the new support level.

Metso configured the crusher for the application to include:

- Slip ring drive motor mounted on crusher with motor pulley mounted on its own Lay shaft.

Complete with dive guards all pre-determined, all to reduce installation time and convenience for maintenance.

- Super tooth jaw profile selected to reduce "slabby" crushed product.
- Auto lube system for all crusher bearings.



Digital display of crusher setting

- Hydraulic adjustable jaw plate setting to allow variable crusher set points
- New digital display of crusher setting to help with setting changes.
- Heavy-duty feed funnel designed to suit crusher opening.

The new crusher had to be installed into the existing space, respecting the feed and conveyor system, to gain access, the roof and existing lifting beam had to be removed. The scope of installation also included a new Magna start for the slip ring motor and Electrical control panel. During the planning stage where all

stakeholders were involved, the best solution found was to build up the crusher "insitu". This overcame the challenge of crane access for the size of lifts involved with sufficient reach available for the best position near the Primary building.

With the effort made at the planning stage and with everybody's co-operation the installation proved successful with commissioning and start up completed 3days before the deadline.

On analysis of the investment, Mr Andy Meadows Longcliffe Quarries LTD Group Engineering Manager is pleased to report that:

The C160 has delivered all of Metso's expected results:

- Improved throughput
- Impressive ability to crush marginal stones the size of the crusher mouth.
- Reduction in down time and use of the hydraulic breaker.
- Reduced downtime adjusting the crusher setting with the use of the hydraulic setting equipment
- Improved maintenance with the auto lubrication system, the compact design of the machine and easy access to parts

The C160 is already impacting our business with improved production at the Primary station with better utilisation of the Load & Haul fleet asset and associated manpower. We have also noticed that although we have improved production the power consumption of the new C160 has not increased versus the old primary crusher.

Andy also commented that it is pleasing to see the crusher delivering its predictions and the capex investment providing the improvements to our business that was outlined in our justification.

Longcliffe Quarries Ltd take a long-term view on the purchase of equipment and is why we have also agreed to a crusher extended warranty and care package with Metso UK.



Metso would like to thank Longcliffe Quarries Ltd and especially Andy Meadows for the co-operation in the production of this article.

Metso is the world's leading industrial company in the mining and aggregates industries and in the flow control business. Our knowledge, people and solutions help drive sustainable improvements in performance and profitability in our customers' businesses.

Metso has an uncompromising attitude towards safety. Our products range from mining and construction equipment and systems to industrial valves and controls. Our solutions are delivered and supported by decades of process knowledge and a broad scope of services backed by a global footprint of over 90 service centres, thousands of service employees, and an extensive logistics network.

Installation complete



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Terex|Finlay continue to rock the world of crushing and screening!

Terex|Finlay are enjoying success with new additions to their range of tracked crushers, screeners and conveying products. To add to the trio of crushers introduced in late 2017 the company has recently launched the second generation J-960 jaw crusher. The introduction of this new crusher has been quickly followed with the launch of the newly revamped 684 inclined screener. Both these next generation machines have started to roll off the production lines at the Crushing and Screening Manufacturing Centres of Excellence in Omagh and Dungannon, N. Ireland.



NEW Terex Finlay J-960 jaw crusher.

The next generation Terex Finlay J-960 is a compact and aggressive mobile jaw crusher that has been designed with the customer and operator in mind. The machine has been redesigned with improved all round preventative maintenance and serviceability access points. The heartbeat of the machine is a robust direct driven Terex 900 x 600mm (35" x 24") single toggle jaw chamber which provides high capacity with large reduction ratios. Its compact size, excellent mobility and high crushing capacity even at tight settings in recycling and hard rock operations make the J-960 ideal for small to medium sized operators.

Key features:

- A number of innovative design features have been built in to improve material flow through increased clearances, improved service access points and all round maintenance serviceability.
- Direct drive jaw chamber fitted with an unblock feature that maximizes uptime.
- Jaw chamber has full hydraulic wedge adjust system for quick and easy on-site adjustment of the jaw CSS minimising downtime.
- The redesigned main conveyor with 440mm (1' 5") under jaw clearance minimises restrictions when operating in recycling applications.

NEW Terex Finlay 684 inclined screener.

The second generation Terex Finlay 684 3-deck is a compact and easily transportable inclined screen has been designed with the customer and operator in mind. There are a number of important design updates that have set this machine apart from its predecessor; for ease of on-site movement and efficient set up and tear down times the machine conveyor design has been simplified and reconfigured to give rapid on site deployment. The screenbox from the original machine has been retained giving three large 4.3 x 1.7m (14' x 5'7") screening decks and a class leading screening area of 21.9m² (236ft²) for efficient screening and high tonnage capacity with full catwalk access. A combination of quick wedge tensioning, convenient access holes and hydraulic tensioning on the bottom deck ensure mesh set up and change out times are kept to an absolute minimum.

All four discharge conveyors are adjustable and hydraulically fold for transport. The oversize 4th product conveyor retains the ability of variable tilt and side slew to enable accurate discharge of material for recirculation and stockpiling. The screenbox angle can be hydraulically adjusted to an angle between 18-37 degrees. A 2-deck



variant of this new machine is also available featuring the same reconfigured conveyor design and screenbox.

Key features:

- Simplified and reconfigured conveyor design eases on-site movement and provides efficient set up and tear down.
- Triple deck 4.3m x 1.7m (14' x 5' 7") screen with full catwalk access.
- Maximum utilisation of three 4.3m x 1.7m (14' x 5' 7") decks provides ultra-efficient screening capabilities even at small aggregate sizes.
- The fourth (oversize plus) conveyor provides variable tilt and slide slew capability to accurately discharge materials for recirculation to crushers or for stockpiling.



Tracked conveyors

Terex Finlay complimented their crushing and screening portfolio with the introduction of the TC-65 and TC-80 conveyors during 2017. The early uptake by the dealer network and acceptance by the market place of these machines has been exceptional. The intelligent design of these machines enables them to be folded into a transport envelope that allows these machines to be transported inside a 40ft container and shipped cost effectively globally. The track in and out design lets operators simply track the machine out and fold into working position and start conveying material upon arrival on site.

At the upcoming Hillhead trade show Terex Finlay will be showcasing new additions to their conveying line up in the form of the TC-100 conveyor as well as new high and low level feeders.

For further details on the Terex Finlay product portfolio and services please visit our website www.terexfinlay.com



www.hub-4.com/directory/305

Terex Finlay to showcase NEW I-120 direct drive horizontal shaft Impact crusher at Hillhead

Following hot on the heels of the recently launched I-120RS impact crusher, Terex Finlay will be showcasing the new I-120 direct drive horizontal shaft impact crusher at the upcoming Hillhead trade show.

This second generation impact crusher with redefined styling and advanced technological design incorporates the new Terex® CR038 impact chamber. The chamber features hydraulic assist aprons, an inlet lid and hydraulic release chamber protection to assist in passing uncrushable material that enters the chamber. For efficient and safer onsite set up and tear down processes the hopper is hydraulically folded and locked from ground level.

The I-120 impactor has been rigorously tested in quarrying, demolition and recycling applications and "proven" the enhanced material flow design ethos that is now found across the range of Terex Finlay impact crushers. An additional new feature that has been designed and incorporated onto the plant is curved corners on the feeder wear plate to minimize the chances of material building up in the corners when running in sticky material.

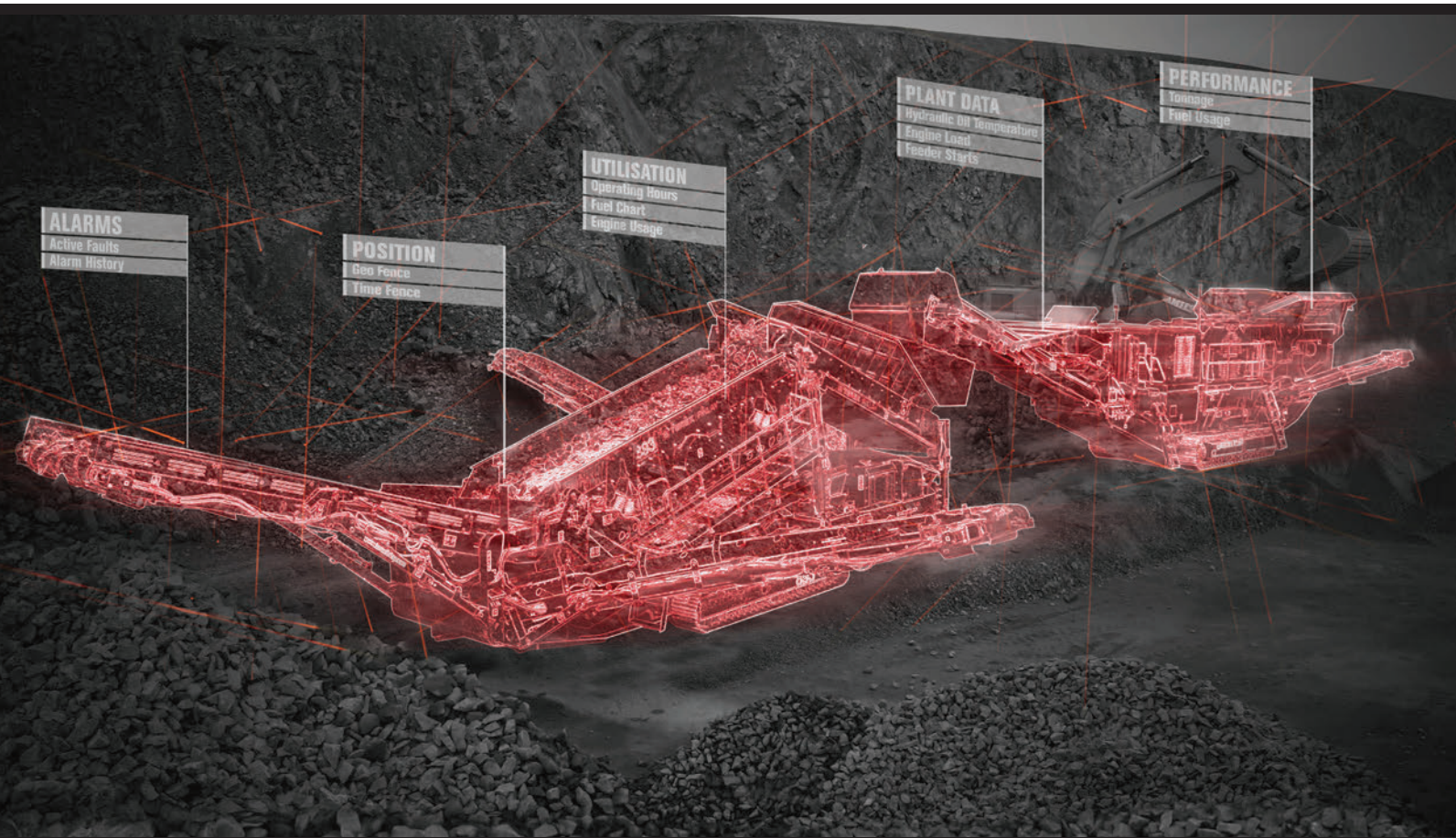
The machine is direct driven and has an advanced electronic control system that gives optimal operation efficiency whilst consistently giving high material reduction ratios and a consistent product shape.

For operators in recycling and demolition applications the options of an underpan feeder and auto adjust on the chamber secondary apron are also available for the machine.

Key features:

- The ease of material through the machine has greatly improved with each component increasing in width as the material passes through the machine.
- Fully hydraulic apron setting assist provides convenient and efficient adjustment of the aprons
- Heavy duty vibrating feeder (VGF) with integrated prescreen removes dirt fines and sizes bypass material for reprocessing.
- The optional pre-screen can be used when there is a large amount of fines in the feed material and can be fitted with punch plate, mesh or grizzly bars.





T-LINK RETROFIT KITS

Now available as a retrofit kit, the innovative T-Link telematics system can help you plan, run and manage your fleet. The system can be fitted to older model Terex Finlay machines and other mixed fleet equipment.

From the fleet management fundamentals of knowing the hours and location of your machine to sending machine specific alerts and tracking machine production, T-link can help you remotely monitor and manage your Terex Finlay fleet and grow your business.



To find out more about T-link Telematics

www.terexfinlay.com



Compatible with your Terex Finlay or Mixed Fleet



WORKS FOR YOU.™

New Powerscreen Premiertrak R400X pulls no punches

The Bristol and Avon Group (B&A Group) have become one of the first major transport and waste management companies to receive the new Powerscreen® Premiertrak R400X which was launched last year.

Supplied by Blue Machinery (Southern) the new machine has been hard at work at the company's new aggregate facility at Hallen near Bristol.

B&A Group, is an established, family owned company providing transport services, supply of aggregates and waste management solutions to a broad range of clients in the south west region for over 30 years. With a proven track record, they have continued to grow and develop, making significant investment in staff, operational facilities, fleet and plant ensuring their capability to evolve whilst meeting the needs of their clients & the environment responsibly.

Recently B&A Group have invested more than £7 million in a new state-of-the-art, 11-acre aggregate recycling facility. With a further 11 acres purchased in 2017 and ready to develop in line with the Groups expansion plans to become the largest soil & stone treatment facility in the South West region. This new and exciting development in Bristol is Bristol & Avon Groups new headquarters, centralising all operational activities including a 4-bay workshop, lorry park & bespoke offices, made from shipping containers and designed by the



award winning Mckenzie Wheeler architects and built by Urban Space Management. The B&A Group are currently advancing plans to include facilities for a soil washing plant and waste transfer station.

As part of the on-going investment in plant and

machinery and to keep their fleet fresh and maximise on residual values B&A Group have invested in a new Powerscreen® Premiertrak R400X which has replaced a three-year old Powerscreen® R400 Jaw Crusher.

Kevin Bogira – Group Fleet Engineer for B&A Group, commented, "We have had good service from our Powerscreen® equipment which has provided us excellent availability, production and performance. It made sense at this time to upgrade and take advantage of the new developments of the new Powerscreen® Premiertrak R400X. Blue Machinery (Southern) supplied a new machine and we were up and running on our new site in no time."



On-site processing:

Material is delivered to the aggregate processing area by an extensive fleet of B&A Group trucks where the new machine is currently employed on processing this incoming feed of C&D recyclable materials which consist mainly of concrete, brick rubble and tarmac. All materials are then pre-prepared before being fed into the Powerscreen® Premiertrak R400X to make the required recycled products.

The end products are produced in-line with market demands and the current blue-chip company contracts B&A Group must fulfil, which ultimately sees them produce a range of recycled material from 6F type to MOT type 1 and single size materials for use in fill, sub-base, road base and pipe bedding.

Martyn Yarde – Sales Manager - Blue Machinery, commented, "B&A Group have experienced a great return from their old Premiertrak R400 and saw the new Premiertrak R400X as a great investment with the new upgraded specification. Depending on feedstock and jaw settings the Premiertrak R400X can easily achieve 300-400tph and produce circa 3,000-4,000 tons in an average day. It will ensure continued performance, production and availability and provide maximum fuel efficiency to give B & A Group and its customers the best all round value."

The Powerscreen® Premiertrak R400X:

The Premiertrak 400 has been one of the strongest machines in the Powerscreen® range and the new R400X builds on that legacy improving ease of use, maintenance, serviceability and on-site safety to ensure this is a class leading machine.

Capable of circa 400tph the machine supplied to B&A Group incorporates a hydraulic release jaw, hydraulic jaw flipper plate, magnet and side fines conveyor.



Providing high output and excellent reduction capability the R400X is controlled remotely by umbilical connection and features the Powerscreen® Pulse™ Telematics System which has revolutionised the way you can improve your crushing operation.

Available online anywhere and at any time the Pulse™ Telematics System provides comprehensive information on the GPS location, start and stop times, fuel consumption, tonnages, cone settings, wear ratings, operating hours, maintenance status, and much more. A user-friendly interface displays information clearly for 'at a glance' metrics and diagnostics. This allows the operator to 'take action' before damage occurs, in addition predetermined maintenance intervals are signalled, and error messages are displayed in plain text messages.

Outstanding professionalism:

With a reputation built on outstanding professionalism, attention to detail and efficient service, B&A Group can now have the confidence in their investment in Powerscreen® equipment. An OEM with a rich heritage of design and manufacturing excellence and a leading force in the crushing and screening heavy plant sector.

Powerscreen® machines cover the full range of material processing requirements with mining equipment, quarrying equipment and mobile crushing and screening machines for the mining, quarrying, demolition and recycling industries.



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EXTREME S



X
SERIES

Introducing the first of the new X Series the 220X, our most advanced 20 tonne excavator ever. It's taken 4 years of hydraulic, electronic and electrical development and thousands of hours of extreme endurance testing, to build you a machine that doesn't just look extremely strong, it is extremely strong. To experience the X Series for yourself, call your local dealer.

STRENGTH

A yellow JCB excavator is shown in the process of loading a large dump truck with soil. The excavator's arm and bucket are prominent in the foreground, with the JCB logo visible on the bucket. The dump truck is filled with soil and is positioned in the middle ground. The background features a construction site with various materials, including large piles of gravel and sand, and a conveyor belt system. The sky is filled with dramatic, dark clouds, creating a high-contrast, industrial atmosphere. The overall scene conveys a sense of power and strength.

WWW.JCB.COM/XSERIES

 **JCB**

JCB launch the new X-series excavators



The latest International press event at JCB World HQ held on 12th-13th March saw the spectacular launch of the brand-new X series excavators. JCB has developed advanced new 220X crawler excavators, the first models in the next generation of JCB tracked machines for the global construction market. Over a four-year development period, JCB has employed a programme of intensive component and product testing, to achieve increased levels of build quality and reliability for customers.

The new machines feature:

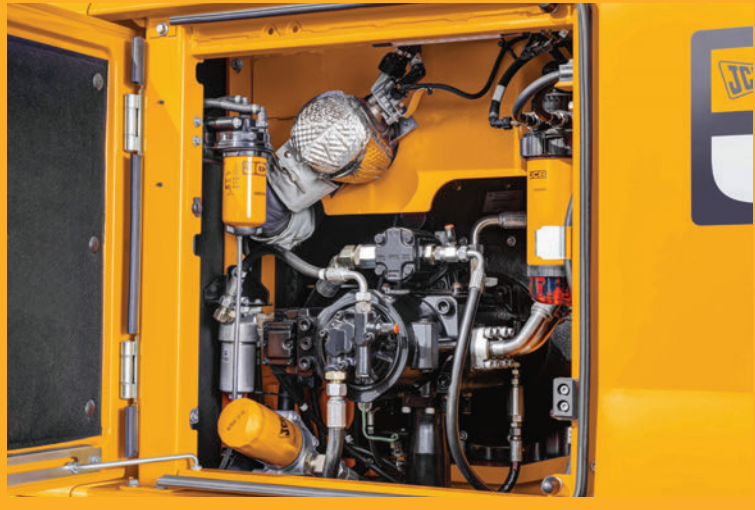
- 15% larger global cab with integral ROPS structure, offering reduced noise levels
- 200mm wider upper-structure delivering improved packaging
- Central main boom mounting for increased digging accuracy and durability
- Intuitive, ergonomically-designed cab with simple user interface





JCB's Chief Innovation and Growth Officer Tim Burnhope said: "With the next generation 220X, JCB has moved to a totally new level of product development and machine assembly, that will benefit all of our excavator customers in the field.

"Every detail of these excavators has been examined and perfected, to provide maximum durability and reliability in operation. But more than that, we have made it easier for the operator and for the service technician, reducing downtime for the customer and boosting profitability. The 220X heralds the arrival of a new generation of JCB excavators, that will provide many years of faithful service across the world."



Operator Environment

There has been a total focus on the operator environment and the cab is a completely new structure, which will be used across the X series range. It is 100mm longer and a full one metre wide, making it 15% larger overall than on previous machines. The cab incorporates the ROPS frame within the structure and has flat glazing all round. Most impressively, the 220X boasts an incredibly low 68dB(A) noise level inside the operator's cab, down from 73dB(A) on the previous generation.

The wiper motor is mounted to the bottom left-hand side of the front windscreen, to maximise visibility. Three options of all-new seat developed with supplier Grammer provide maximum comfort, with heating and ventilation among the options. The servo levers are mounted from the seat frames and so move with the operator, while the cab now sits on four new cab mounts, for improved isolation.

The flat floor is easy to keep clean and even the rubber mat has been redesigned to assist with sweeping out. JCB has also provided an additional hour meter, that can be seen from ground level from outside the cab.

This attention to detail continues inside, as all of the controls have been ergonomically designed to be 100% operator-focused. To the right-hand side of the operator is an all-new command pod, bringing together all switches and controls into a single seat-mounted unit. A 7" tilt-adjustable

monitor has been provided with intuitive menus and functionality. The monitor is accessed through an automotive-style rotary controller.

By combining the benefits of the screen and the command pod, which has a button for every regularly used function, tests have shown that an operator can carry out regular operations faster. The foot pedals, foot rests and tracking levers have also been redesigned to provide increased comfort, while the machines can be supplied factory-prepared for GPS excavation guidance, tilt-rotator and autolube if required.



Durable Design

The new 20-tonne class excavators herald a robust, purposeful new appearance, that will be carried throughout the range. Designed and built to work efficiently and profitably, with durability and reliability throughout every strand of their DNA, the excavators have an upper-structure that is now a full 2.7 metre wide, 200mm broader than their predecessors.

The additional space has allowed JCB's designers to mount the main boom in the centre of the machine, rather than at an offset. This reduces stress on the slew bearing and provides increased accuracy for the operator when trenching. It also permits the use of larger buckets without impacting the tracks.



To the right of the machine the handrail has been mounted in-board of the structure to prevent damage. However, if handrails are caught, they are now bolted in place, so can easily be replaced. The service doors are pressed double-skin steel, with sturdy handles and a welded framework for added rigidity.

A pronounced skirt circles the upper-structure, providing a strong, yet easily repairable profile to protect the new doors. All tanks are now mounted inside the bodywork, to further reduce the risk of damage and even the counterweight has been designed to prevent knocks. There is easy access to a large tool box, with integral refuelling pump with filter, while the AdBlue tank is positioned under a separate cover, to prevent cross-contamination and to make it easier to refill.



On the left-hand side of the body there is an air inlet in just one access door, cutting external noise levels. A large cooling pack with standard wide-core radiators as standard, comes with a removable fly-screen that is easy to keep clean. There is a storage area above the batteries and the machines benefit from a new consolidated IP69 fuse board, located within the service door behind the cab. There is also ground-level access to the heating and ventilation system filter, behind the cab door and the machines can be supplied with optional LED lights inside the service compartments.



Increased efficiency

While much of the last decade has, for all manufacturers put engine development at the centre of the engineers' brief, the stability of Tier 4 Final and Stage IV legislation has allowed the team to expand its remit for the new models. The company has stayed with proven Kawasaki hydraulic pumps and Kayaba valves, but has opted for larger spools and a latest generation valve block for reduced hydraulic losses. The diameter of the main hydraulic hose to and from the main hydraulic valve has increased in diameter from 19-25mm, giving greater flow without increasing the speed of the oil. Maintaining the speed of the oil in increased diameter hoses, results in less wear and tear and therefore increases hose life.

Though the boom and arm are unchanged, JCB will offer the option of boom float with two modes to make grading easier and to reduce stress when operating a hydraulic breaker. The bucket ram will be available with an optional hose burst check valve and the grease points in the boom and arm have been grouped together to reduce service time.



Research and development

JCB has undertaken the design and engineering of the new 20-tonne machines with quality and durability at the heart of every operation. The company benchmarked all leading competitors and collected more than 1,000 requirements from customers around the world. The team spent four years honing the excavators, to make them both simple to operate and simple to service.

The excavators were of course designed using computer aided engineering (CAE). However, the team at JCB also used CAE to virtually build the excavators. Before any parts were ordered from suppliers, the production line knew exactly how to assemble the components, thanks in part to contributions from the staff on the assembly line.

A vast amount of endurance testing has been carried out, with every door opened and slammed shut more than 10,000 times to assess durability. Electronic test rigs have been used to test every electrical component and for the first time, JCB has put the entire 20-tonne excavator on an automotive-style shaker rig.

Customers will notice higher quality paint finishes, as the designers have eliminated any sharp edges in the steelwork. The hot test that all machines undergo at the end of the assembly line has also been increased to fully test the machines. Even the way that the excavators are built has been changed, with 42% of the machine now constructed as sub-assemblies off the main line, double the previous amount. This allows for additional quality inspections and reliability checks, while simplifying the main line.

For more information on the new X series of excavators please visit www.jcb.com

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Recycling is still the future

Andrew Pettingale, MD of BG Europa (UK) Ltd, examines the latest options for the processing and mixing of RAP in asphalt production.

Recycled asphalt (RAP) is a particularly valuable material to the asphalt production industry and its value will continue to increase as the cost of virgin aggregate and bitumen rise. Producers who can supply high quality mixes with RAP with minimum energy usage and minimum environmental impact will be best prepared to compete in future markets.

Producers must understand that RAP is not a waste product. Like a quarry or oil well, roads are another source of aggregate and bitumen. From an economic standpoint, RAP is worth the virgin material it replaces ton for ton. When properly processed and mixed, RAP can also significantly reduce the cost of asphalt production. RAP has the added advantage of conserving natural resources and providing more miles of pavement from available revenues. If recycle is processed and treated the same as virgin materials with respect to gradation control, mixes with high levels of RAP have been shown to match or exceed the performance expectations of all-virgin asphalt.

Because processing techniques have been refined and higher percentages of recycle are commonly used in mixes, plant equipment must be able to cleanly and efficiently produce the mixes. The amount of RAP, the type of plant and the equipment configuration can affect production capacities, plant operating costs and the quality of the mix.

As RAP percentages increase, the required amount of front-end preparation and type of plant equipment needed changes.

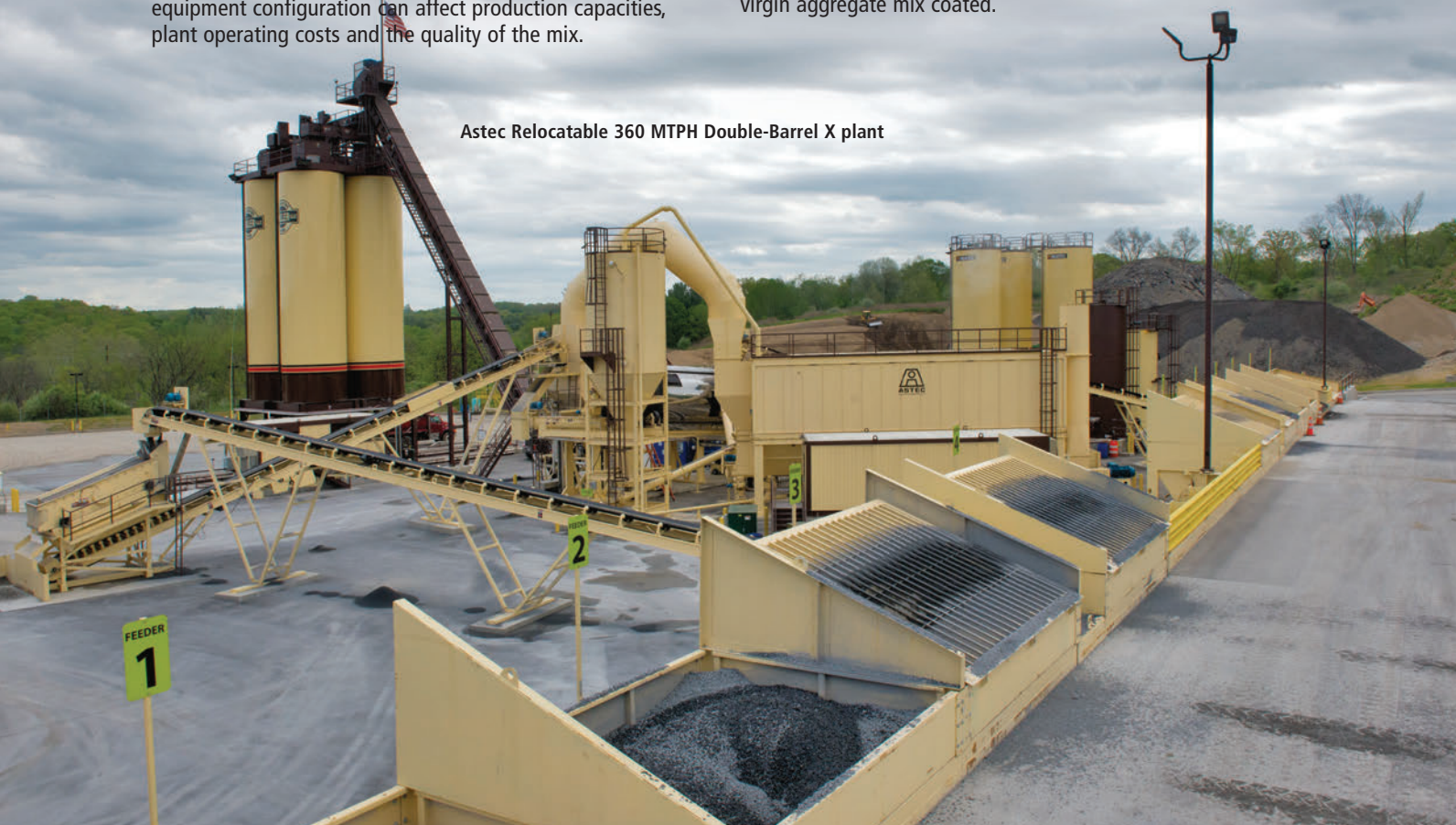
0 to 20% RAP

When producing mixes using between 0 and 10% recycle, the percentage of RAP is so low that it has little effect on the aggregate gradation and bitumen content in the mix. When fed into a continuous mix asphalt facility or a batch plant, RAP should be a milled or crushed material that is conveyed over an appropriate scalping screen to prevent oversized material from entering the mix.

When using amounts as low as 10% recycle, RAP can be successfully fed into batch plants on a continuous basis using a bucket elevator. When higher percentages of RAP are fed to the elevator screen blinding can occur as bitumen rich fine material adheres to the wire of the smaller aperture screen mesh.

Batch plants are often converted to allow the use of more RAP. In these plants, the aggregate is superheated in the dryer and held within the hot stone bin as an energy store for the drying and heating of the cold wet RAP. The recycle is fed directly into the pugmill with the superheated aggregate where the RAP quenches the aggregate, dries and achieves final mix temperature. Bitumen is then injected and the RAP / virgin aggregate mix coated.

Astec Relocatable 360 MTPH Double-Barrel X plant



When running RAP through a parallel flow drum or batch plant, it is imperative to keep the recycle as dry as possible to prevent excessive stack emissions. The steam from the drying process can strip the light oil from the virgin bitumen which can oil-soak the baghouse and lead to odour and visible emissions.

As the percentage of RAP increases in batch plants, operators must consider the steam created as the RAP is heated by the hot virgin aggregate during the mixing process. Since steam is generated almost instantly upon mixing RAP with virgin aggregate, the large volumes of steam from wet recycle usually overwhelms batch plant scavenge systems. A RAP feed system that controls and extends the time of RAP introduction into the pugmill should be used to give the scavenge system more time to evacuate the steam. Keeping the recycle as dry as possible reduces the total volume of steam generated and also reduces drying cost.

20 to 30% RAP

Proper management of material gradation is the key to producing high quality, high RAP-content mixes. Most existing asphalt facilities have numerous virgin cold feed bins and only one or occasionally two recycle bins. When using RAP at 20% and higher, the recycle material should be separated into the same sizes as the virgin aggregate. By having the same gradation of both the virgin rock (white rock) and RAP (black rock), the mix designer can simply choose the gradation of the desired mix then select either black or white rock. This gives

the mix designer substantially more flexibility, and it allows for the use of RAP in virtually all mixes.

More importantly, treating recycle gradation similarly to virgin aggregates minimizes variation in both mix gradation and bitumen content that may occur if a recycle material containing a broad gradation range is fed from a single bin. As a RAP bin containing such material depletes, there is a significant potential for segregation. This segregation can have a significant effect on gradation, bitumen content and mix quality and longevity.

Towards 30% RAP, traditional methods of cold RAP addition within batch mixes become unachievable as the level of superheating of the virgin aggregates becomes too great and steam evacuation becomes extremely problematic. As virgin aggregate temperatures increase they can near the flash point of bitumen, in the event of RAP feed failure and sufficient quenching of the mixer charge the likelihood of mixer fire becomes significant.

30 to 40% RAP

In most plants, the recycle material is heated and melted by transferring energy from superheated virgin aggregate to the recycle material. As the RAP addition and/or moisture content increases, the level of virgin aggregate superheating required also increases so as to provide sufficient energy to dry and heat the RAP to mix temperature.



As the level of superheat increases the amount of heat loss from a counterflow virgin aggregate dryer increases considerably. As RAP content increases, the heat loss and the additional fuel required significantly increase production costs.

At 30% RAP addition, a method of direct RAP heating is often utilized. However, this type of equipment has been associated with issues of environmental pollution, odour complaints, and fire risks. RAP dryers can be utilised to dry and warm the RAP reducing the level of superheating of the virgin aggregate required when directly compared to cold wet RAP at a given addition rates. These drums are often installed at high level adjacent to the batch tower to allow warm RAP to flow by gravity to the mixing process. However, these dryers can be particularly polluting as without abatement blue smoke generated by the drying process can escape the dryer and pass into and through the fabric filter. Light oils which can be stripped from the bitumen contained within the RAP, can also pass into the filter, oil-soaking the bags and producing odour and visible emissions from the stack.

When using more specialized equipment like the Astec Double Barrel dryer/mixer or a counterflow dryer which incorporates an integrated RAP heater such as the Double Barrel X or Double Barrel XHR, environmental issues are practically eliminated. This is because the RAP is heated in a relatively inert environment. The steam generated by heating the RAP, the bane of the batch process, is utilized to create an inert blanket covering the mixing process. Due to the internal configuration, any incidental emissions are consumed by the burner flame. Fortunately, this internal configuration also directs heat back into the mix that would otherwise be lost.

40 to 50% RAP

As the RAP content in mixes increases it becomes more important that the recycle must be processed and fed from multiple bins to control the gradation of the RAP and ultimately mixed product. As RAP percentages increase the energy burden on the superheated aggregate increases as a smaller quantity by weight has to dry and heat the RAP. The

Double Barrel and its derivatives the Double Barrel X and Double Barrel XHR are ideal for running high RAP-content mixes because of a long mixing chamber and the ability to capture heat from the drying chamber. With appropriately outfitted equipment of this type, fuel consumption remains virtually unchanged whether the plant is running 50% RAP or all-virgin mixes.

The Double Barrel and its derivatives' long mixing chambers allow the RAP to be heated, the moisture evaporated, the virgin aggregate cooled, old liquid transferred to the virgin aggregate, and the temperature equalized prior to adding the new virgin bitumen.

Within the Double Barrel mixing chamber, the RAP is gently mixed with the superheated virgin aggregate maximising heat and binder transfer between RAP and virgin aggregate. The steam released by this process displaces the oxygen with the chamber producing a rarefied oxygen atmosphere. This results in practically no oxidation of the mix whilst in the mixing chamber and provides sufficient time for RAP bitumen to fully melt and transfer to the virgin aggregate prior to the injection of virgin bitumen.

When only short mixing times are possible with traditional equipment, mixes with high contents of RAP can fail to reach optimal mix temperature and fail to fully melt the RAP bitumen. At higher levels of recycle, this results in poor quality mix."

The Double Barrel by design is clean in operation when recycling RAP at high levels, there are no odours and the stack has zero opacity. Any smoke or odour coming out of the mixing section is pulled back through holes in the inner drum. Pollutants pass directly into the flame of the burner where they are consumed. Moreover, virgin bitumen and recycle materials are not exposed to hot gases and steam produced by drying virgin aggregate in the inner shell. So, these gases and steam cannot distil light oils from these materials.



Astec Relocatable 450 MTPH Double-Barrel XHR plant fed by eight cold feed bins and three RAP bins.



Astec Double-Barrel XHR with twin shaft mixer for maximum binder coating quality and Astec warm mix system allowing production of warm mix asphalt.

50 to 70% RAP

At these levels only specialist equipment such as the Double Barrel and Double Barrel XHR can consistently produce high quality material, with no odour and zero opacity at the exhaust stack.

The extended opportunity for drying and RAP mixing allows the Double Barrel XHR to offer producers the opportunity to routinely produce high quality mixes with RAP additions significantly above 60%.

The Double Barrel XHR is specifically designed to cope and adapt to real world production requirements where RAP additions vary by mix. The Astec V-Pac™ Stack Temperature Control System uses v-flights and a variable speed drum drive to facilitate production of many mixes while controlling stack temperature.

To achieve longevity in operation the inner drum and combustion flights of the Double Barrel XHR are fabricated from stainless steel to withstand the high temperatures associated with running at high RAP inclusions.

By incorporating new technologies and premium materials, the Double Barrel XHR is the next generation of the Double Barrel line of equipment renowned for

guaranteed production of high-RAP mixes.

Recycling within the UK asphalt production industry is continuing to evolve. Development of methods of fractionating and controlling RAP products along with producers understanding and properly utilizing these methods will allow these materials to be incorporated in greater quantities to produce high-quality mixes. An understanding of the processes behind the successful incorporation of RAP enables producers to have an informed choice of equipment. The proven technology of the Astec Double Barrel and its derivatives allows recycled asphalt products to be introduced into mixes in a cost-effective manner and without environmental impact. As the demand for RAP increases, producers who can most successfully incorporate this valuable commodity with minimum energy usage in an increasingly environmentally aware culture will ensure asphalt recycling is a significant part of a sustainable future.

BG Europa (UK) Ltd retain strong links with Astec Inc., co-ordinating with them to promote their range of equipment in the UK and keeping a stock of genuine Astec parts.

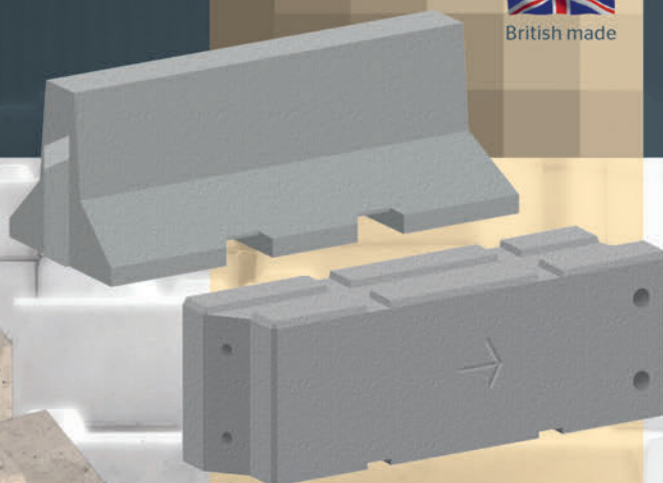
For more information visit www.bgeuropa.co.uk



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Astec Double-Barrel XHR can consistently produce high quality material with RAP additions significantly above 60%, with no odour and zero opacity at the exhaust stack.

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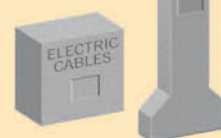
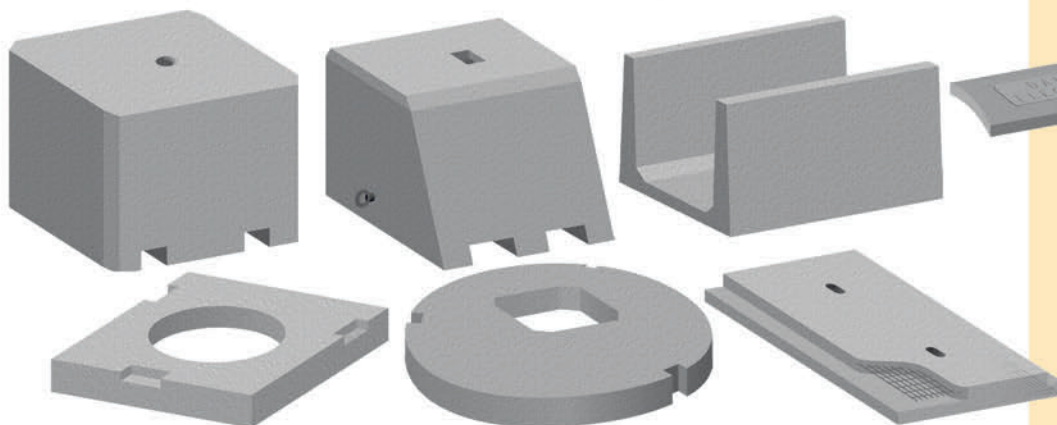
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Meet the buyer to get the best price for your metal !

On 11 & 12 July 2018 at the Metals Recycling Event - Europe's number one event for metal collectors, processors and recyclers - visitors will have an unprecedented opportunity to meet new contacts and secure the best rates for their material.



Taking place on day two of the show, the 'Meet the Buyer' Lounge is one of the most exciting new additions to the 2018 event - empowering sellers to get the best rate and supporting buyers with a chance to meet new suppliers.

MRE is an event that has been built by the metals recycling industry, for the industry and hence, offers visitors a different experience to your typical trade show. In addition to the features you would expect to see, visitors can witness live demonstrations of equipment working in its intended environment and attend expert sessions on leadership, management and succession planning from the Business Doctors. Visitors can also choose to take advantage of a

variety of extra-curricular activities including subsidised Jaguar Land Rover factory tours, 4 x 4 experiences, falconry, a scrap art exhibition and much, much more across the two days.

Day two also serves as 'International & Export Day' enabling visitors to build up their network of exporters, brokers, ports and international businesses from across the UK, Europe and beyond.

Confirmed exhibitors for 2018 include; Lefort, Hassell Sennebogen, Eriez Europe, Olympus and Idromec, while the event's headline partner is Blue Fuchs, supplier of the Fuchs range of material handlers, ZB Group range of metal shredders and Taurus balers.



MRE is co-located with the Complete Auto Recycling Show (CARS) – an event dedicated to end of life vehicle recycling.

For more information and to register for your FREE ticket to both events visit www.metalsrecyclingevent.com



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Ahern Waste Management only settles for the best with Sennebogen and Kobelco

Basildon based Waste Management specialists Ahern Waste Management only settles for the best with Sennebogen and Kobelco.

As one of the most respected and long standing Waste Management and Recycling business' in the East London and South Essex area, Ahern Waste Management who were founded in 1948 have expanded their operation to become a true one-stop-shop for all customers waste requirements. Nearly 70 years on the business continues to grow and adapt inline with the changes within the waste recycling industry.

Now able to offer a range of services from their sites in Basildon and West Thurrock including: Waste Collection, On-Site Compaction, Material Recovery Facilities (MRF), Energy from Waste (EfW) and offering land reclamation / restoration for sites.

Molson Green Sales Manager, Adam Meeking said: "Ahern Waste Management are seen within the industry as a progressive business that can offer customer a friendly yet professional service. I have known the business and the people at Ahern Waste Management for many years and by using that understanding of their business, I was able to offer them the products that were right for what they wanted to achieve".

He later added "The Sennebogen 821E was a perfect fit for their waste transfer station. After evaluating their requirements and explaining the features and benefits of the 821E compared with its competitors. This alongside the reassurance provided by the Molson Service Contract, I think it made for an easy choice".

Weighing in at 24t, with a reach of nearly 11m to the end of the arm, the 821E offers an extensive working range. The rising cab function allows users in a waste environment to full visibility when loading bins to ensure that no space is left unfilled. All powered by a Cummins 4.5l (160 hp) direct

injection, turbo charged power plant – this Bavarian giant is not short on power when called upon.

The Sennebogen 821E benefits that customers find particularly of benefit include:

An uninterrupted view from the cab. Thanks to joystick steering, there is no steering wheel and column obscuring the view of the driver. This allows for a clear line of site to the material he is picking from, improving productivity and efficiency.

Grab speed adjustment. Operators can adjust the grab speed via the clear and simple to use LCD display unit within the cab. This allows each operator to go at their desired speed, increasing safety and productivity.

Adam Smith Basildon Site Manager said: "A material handler is the heartbeat of any waste transfer station and our Sennebogen is no different. Once we had established which machines could meet our functional requirements, build quality and after sales support were the main factors in our buying decision. Adam was knowledgeable and pro-active when addressing these points and the back-up provided by the rest of the team at Molson has been excellent" he went on to add "The Kobelco SK140SRLC Molson were able to supply is primarily used on site clearance work and land reclamation / restoration jobs around the area, but can also be useful in our recycling centre during busy period and for finer picking".

The Kobelco SK140SRLC-5 fitted with an NPK DG16 selector grab was purchased as part of an expansion of the Basildon recycling centre. This machine with its factory fitted blade and hammer and rotation circuit has been tailored to its working environment by Molson by adding a hydraulic quick hitch, rubber blocks, wide core radiator and bucket ram guard.

CRS NI ups the game for Green Box Recycling Kent Ltd

Green Box Recycling Kent Ltd have just increased their processing capacity at their site in Ashford, Kent with the installation of a new materials recycling facility and a fines recovery line which has been supplied and installed by CRS NI.

Based in Carrickmore in County Tyrone, Northern Ireland, CRS NI are the market leader in complete bespoke recycling equipment solutions.

The Ashford site has handled waste since January 2011 with Alan Hogg and Richard Monks as co-directors.

Alan and Richard are no stranger to waste as they have both previously owned waste transfer sites in Maidstone and have extensive knowledge of the business through waste handling and haulage.

Alan, takes up the story, "Currently we have approximately 20 vehicles and are processing 100/125 skips a day, now with the new CRS NI system in operation we hope to increase that to 200 skips a day. CRS NI have installed a 54-bay picking station and through the commissioning stage we are running on 125 skips a day with 16-18 operatives in the picking station, so we have plenty of room to get the tonnage through the gate which is the reason for installing the new system."

Alan, continued, "Our old system had one picking line with 4 operatives so the new system is a major step forward."

Green Box Recycling Kent Ltd collect waste from the Kent area. Since the new installation the company is now considering increasing coverage with collections in East Sussex.

The new plant was sourced through CRS NI dealer Patrick Donnelly of Earth Equipment who has had a long-term business relationship with Alan.

Alan continued, "Together we looked at various systems, many of them much more complex than our final choice but decided to choose a simple straight-line system which causes less complications, is easy to maintain and operate and is easier for machine drivers to see what is going on the ground i.e. bays empty, bays to be filled etc."



L to R: Sean Conlon, Managing Director of CRS NI, Patrick Donnelly, Director Earth Equipment, Alan Hogg, Managing Director of Green Box Recycling and Peter McGuinness, Director Earth Equipment.

An investment of £1.5 million:

Alan, commented, "We are receiving an incoming mixed feed of C&D waste and household waste with increased capacity, we are attracting more interest from the large blue-chip waste companies. Everything is running well and it's a very simple system with motors and drives making maintenance straightforward."





One of the main reasons that Green Box Recycling Kent Ltd chose this system was the 5 metre height of the bays which have a capacity of 40 yards of bulk material and yet still allow an articulated truck to be reversed in when the bay is full. The capacity of the whole plant will eventually mean that there will be no material on-site that hasn't been sorted.

After processing the waste, the plant produces many end-products - two streams of plastics soft and hard, A, B and C grade woods, paper and cardboard, metal and aluminium and green waste all in separate bays, achieving zero to landfill.

Patrick Donnelly – Director of Earth Equipment, commented, "Alan initially spoke to me in March 2016 as he wanted to see what CRS NI could offer so we had an initial meeting, looked at a few concept drawings. Then we went to look at another plant in Milton Keynes that CRS NI had completed. It was obvious this was the type of plant he wanted so we based our initial designs on this as a starting point then developed a bespoke design for Green Box Recycling Kent Ltd, incorporating all of their requirements in terms of site size, shape and throughput."

With the order placed an installation plan was drawn up as the site had to be in constant operation while the new plant was being erected. After the civils were completed in stages, a decision was made on the storage of the new equipment and space allocated for the cranes before the uprights were positioned and the beams installed.

With a seven-week window to complete the new 87-metre long plant the facility was tested with material from mid - December to check component synchronisation, and then was successfully commissioned during the third week of January 2018.

With the decommissioning of the old system the CRS NI engineers had around three months of old material to run through the new plant and test it, this was duly completed in 9 days.

Processing the waste:

Capable of 300tonnes per day the plant consists of a heavy-duty loading hopper which delivers the waste material onto a heavy-duty finger screen which is used to take the initial cut of cumbersome and problematic materials and present them in a cleaned stream for picking onto the 1500mm wide belt on the left-hand side of the station.

Following this a CRS 820 trommel is used to further screen off the mid-size and the -40mm fines for the fines plant. This then presents another clean stream of smaller +40-100mm material for efficient picking and further separation on the 1200mm wide belt on the right-hand side.



The picking area has the capacity to accommodate 56 pickers in a clean and comfortable environment and is insulated, double glazed, sound proofed and incorporates anti-fatigue matting on the floor. The specification includes six external drop chutes for electrical wires, aluminium and copper with all air-operated allowing release into the bucket of a shovel below ensuring easy disposal of materials.

Following the picking stage, two high powered over band magnets reclaim the valuable metals before the material is finally cleaned up using air separation units, resulting in a clean usable stone product and an RDF.

The CRS NI system is producing 11 separate materials including mixed plastic, high-grade wood, cardboard, light plastics, PVC, low grade wood, paper, metals, clean stone and RDF; with the scalability to increase this to 18 separate materials when required.



A second process:

All the -40mm fines derived from the first process are stockpiled and then delivered by wheel loader into the feed hopper of the Fines Recovery Processing System. This unique Double Drum Air Separation Unit (adjustable for damp or dry conditions) with Flip Flow Screen is the only system of its kind on the market and enhances CRS's already patented and high performing direct drive flip flow system driving both decks ensuring maximum agitation. A unique design which utilises two high powered fans directed through two separate



adjustable air nozzles working in conjunction with the double drums to produce an even cleaner material and a more effective separation by blowing the lights over the drums into a cage below and with the drums set ensuring any heavier material 40-10mm drops into its bay below.

Alan, summarised, "The new plant has provided us with more quality end-products, great storage capacity and is user and maintenance friendly. Good all-round plant access through extensive access platforms and walkways are excellent for daily maintenance and checks. We are very pleased with the installation and the professional way it was built. It's just what we wanted as it takes us into our next stage of bigger and better waste processing."

A leading supplier of waste processing equipment:

CRS NI are the leading player in the UK waste processing market and over the last few years CRS NI have built a successful relationship with Earth Equipment. Based in Surrey, Earth Equipment has over 35 years combined experience in the demolition, composting and recycling business sectors and are dedicated to bringing innovative alternatives to the recycling industry throughout the south of England from London to Cornwall.

They have installed various systems from static and mobile picking stations, air separation systems to complete waste processing systems, including the most recent complete static waste solution facility at Green Box Recycling Kent Ltd.

Recently, CRS NI has announced that Wolf Eco Machinery have been appointed as their official distributor to cover the Midlands and surrounding counties. CRS selected Wolf Eco due to their extensive knowledge of the recycling industry, dedicated customer care and outstanding reputation in the UK. With Wolf Eco joining their UK distribution team alongside Earth Equipment, they now show an even stronger front.

Company MD, Brian Bell commented "I am delighted to be working with CRS and the people within the company. I see a very strong future for the recycling market in the UK and believe CRS are at the forefront of recycling and therefore we look forward to working with them."

The CRS team currently work directly with customers in North England and Scotland to offer bespoke waste solutions and complete installations.

Sean Conlon, MD of CRS commented "The UK is a key market for us and we are delighted to work in partnership with both Earth Equipment and Wolf Eco Machinery. Together with their knowledgeable sales teams we have an even stronger front in the UK Market and we are very excited about what the future holds for 2018."



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Business growth thanks to efficient RM crusher

Eddie Wannop Ltd. decides to invest again in an RM impact crusher.



Eddie Wannop (right) and Jaime McGlinn from RM Sales Partner Taylor & Braithwaite Ltd. visiting the RM Headquarters in Linz, Austria, where the RM impact crushers are manufactured.

The easy operation and fast availability of RM impact crushers were convincing arguments for Eddie Wannop. The increase in orders recently led to the purchase of an RM 90GO! crusher. The construction company from the North of England can now fulfil customer wishes with the usual high level of quality even faster. There are

already signs of further growth beyond the previous fields and positive business figures.

"Without the RM 90GO! we would not be able to process the different materials so quickly or with such high quality. With the mobile impact crushers from RUBBLE MASTER we can work more efficiently and support our customers in their projects as a reliable partner. These are also the main reasons why our company has grown so quickly over the last seven years," says Eddie Wannop, Managing Director of Eddie Wannop Ltd.. He launched his company seven years ago in Bampton, near Carlisle in Cumbria. Back in 2011 the

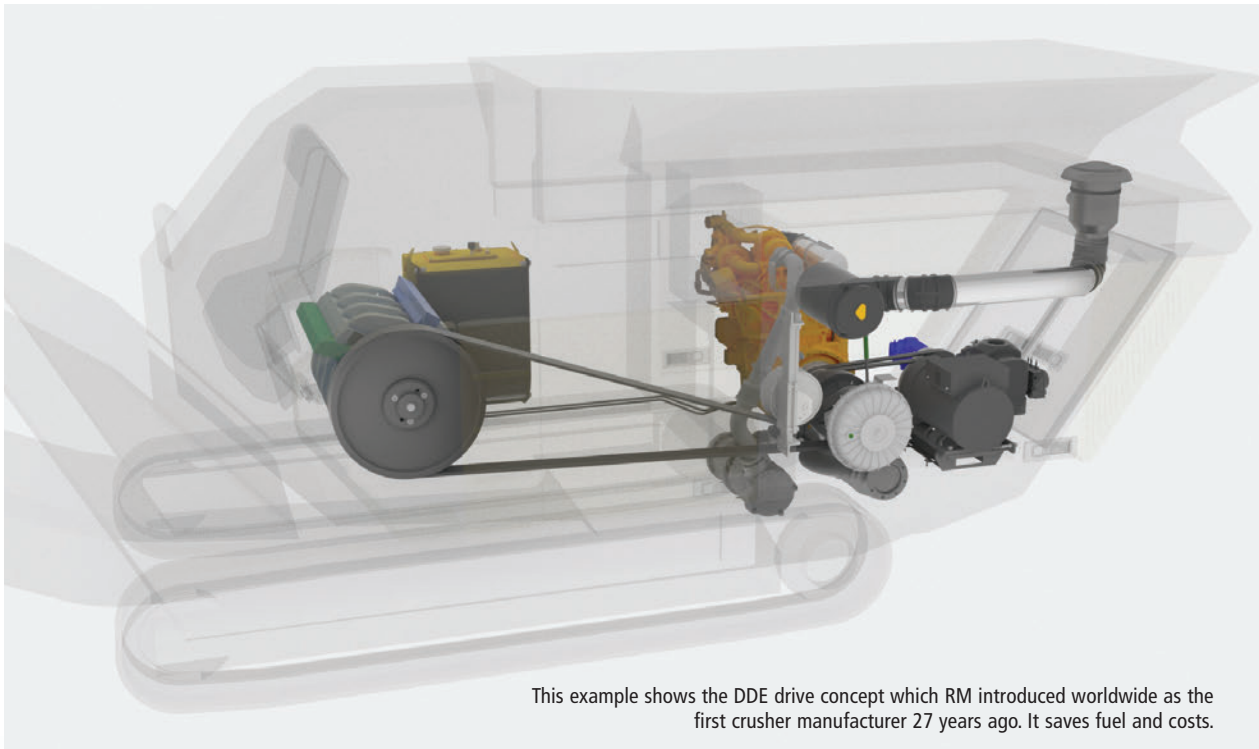
The magnetic separator of the RM 90GO! removes all steel effectively.



company purchased an RM 70GO! and began to recycle construction and demolition waste. Since then Eddie Wannop has been hiring new staff and now has 23 employees. His company currently operates in Cumbria, North East, North West of England and the South of Scotland. Business continues to develop in a very positive way which is why he is planning to expand in the County of North Yorkshire and with the purchase from Taylor & Braithwaite Ltd., the RM Sales Partner for the North of England, of the RM 90GO! he is ideally equipped to do so efficiently.



RM 90GO! crushing C&D waste at the site of Eddie Wannop Ltd. Due to its compactness it is also able to be put to work some of smaller construction sites.



This example shows the DDE drive concept which RM introduced worldwide as the first crusher manufacturer 27 years ago. It saves fuel and costs.

As a construction contractor he offers his customers not only high-quality aggregate from recycled material but also sand and gravel from the company's own quarry. Plant hire and Wannop housing developments likewise feature in Wannop's portfolio. A broad range of use for the flexible and reliable mobile RM impact crushers which can handle a wide range of material perfectly. The company's new RM 90GO! has been put straight to work in C&D materials, concrete recycling and crushing limestone. Due to its compactness of the new machine it makes it easy for the RM crushers to access even cramped sites. This flexibility and efficiency of the RM crushers comes from the typical RM DDE drive concept and the innovative RM GO! principle, which is constantly enhanced by the RM engineers and adapted to the needs of the customers.

RUBBLE MASTER'S DDE drive concept saves fuel

"RUBBLE MASTER has been using diesel direct drive on its impact crushers for 27 years. RM crushers were the first to do without hydraulic drives for belts and operate the vibro-channel and main discharge belt electrically. This saves fuel and therefore operating costs," explains Jaime McGlinn, Sales Manager at Taylor & Braithwaite Ltd.. "We decided again in favour of an RM crusher because we appreciate this efficiency and the high quality and we know that we can rely on the RM 90GO!," says Eddie Wannop. He saw the convincing high standards in development and production that go into his new purchase first-hand on a visit to the RM headquarters in Austria: "On my visit I was very impressed with the cleanliness of workshops, as well as the professionalism of all the staff."

RM GO! principle - work efficiently and earn money

"Downtime costs money. An RM impact crusher which is in operation makes money. With this in mind, RUBBLE MASTER already developed and implemented the RM GO! principle for its machines years ago," says Jaime McGlinn, describing the background of the development of the RM GO! principle. A colour guidance system, for example, means that the machine can be operated quite easily and intuitively. The crusher can be started up and put to work very quickly onsite. The machine can be controlled and operated by one person who can run the crusher from an excavator or wheel loader via remote control. Eddie Wannop commented: "I may be repeating myself, but this easy, intuitive operation makes a big difference against other brands in daily use. Furthermore, an RM impact crusher is popular in plant hire as it enables you to handle jobs quickly and efficiently."

About RUBBLE MASTER HMM GmbH

Gerald Hanisch founded RUBBLE MASTER in Austria in 1991 at a time when others were tentatively beginning to think about recycling construction and demolition material. The visionary Hanisch successfully developed an innovative machine 27 years ago.

In 1992 RUBBLE MASTER presented the first crusher for the recycling of materials left over from the production of bricks and asphalt or concrete debris. The aggregate obtained this way is used as filler material, for example. The breakthrough came for the global market leader in 1997. With exports accounting for over 97 % of business, RM is currently represented by 80 sales partners in around 110 countries in all continents of the world. Besides the core markets of Central Europe and North America the company also has satisfied customers in Eastern Europe, Russia, Asia, Africa and South America. For more information please visit www.rubblemaster.com.



ECOTEC

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TDS 820

- **Weight (Kg)** 27500
- **Rotor Dimensions (mm)** (dia) 700 x (w) 2000
- **Engine** Scania DC13



MEDIUM SPEED SHREDDER

TDS V20

- **Weight (Kg)** 37000
- **Rotor Dimensions (mm)** (dia) 630 x (w) 2000
- **Engine** Scania DC13 493 HP



HIGH SPEED SHREDDER

TBG 620

- **Infeed Dimensions (mm)** (h) 850 x (w) 1530
- **Rotor Dimensions (mm)** (dia) 1040 x (w) 1530
- **Engine** John Deere 425 HP



HIGH SPEED SHREDDER

TBG 625

- **Infeed Dimensions (mm)** (h) 850 x (w) 1540
- **Rotor Dimensions (mm)** (dia) 1040 x (w) 1530
- **Engine** Scania 650 HP



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TWT500

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Timberpak Scotland secures Haas Tyron 2500 shredder for Bellshill operations

Timberpak Scotland, a subsidiary of EGGER (UK) Limited, has acquired Scotland's 'first ever' Haas 2500 slow-speed shredder from exclusive UK distributors, Matpro Machinery Ltd. The industrial waste shredder will help to process 100,000 tonnes of waste wood a year at its recycling facility in Bellshill, Lanarkshire. The largest of the Haas Tyron shredding range, the 2500 model was chosen due to its sheer ability to cope with Timberpak's ever increasing, incoming supply of waste wood.

Gordon Argo, Operations Manager at Timberpak Scotland commented;

"After our previous shredder had run its course, we required a trustworthy replacement which could more than handle the fairly high tonnages we get through on a daily basis. It was also a crucial requirement the new shredder would consistently create uniform, downsized material, which was a major problem with our last shredder, as the larger material being created post-shredding was continuously being blocked by the magnet belts."

Talking about the Haas's performance so far, Mark Hayton, Director at Timberpak commented;

"Absolutely superb. It has more than lived up to expectations. The large infeed area allows for greater tonnages to be processed at a single time and the independently operated shredding shafts are helping to produce high-quality downsized material. Working in conjunction with our picking station, we are now producing the cleanest, uniform material we have ever made."

Ben McQuaid, Director at Matpro Machinery Ltd commented;

"We are again delighted to satisfy another longstanding customer and receive more positive feedback concerning the Haas brand. The Haas 2500 really is the perfect fit for a substantial waste wood processing business such as Timberpak and we are more than happy to see they are starting to witness both the functional and operational benefits in such a short space of time"



www.hub-4.com/directory/17041



Shortts Recycling Purchase First Taurus Shear Baler from Blue Group



Shortts Recycling, a family run business with a long heritage in scrap metal recycling, have been the first company in the UK and Ireland to purchase a Taurus Shear Baler from Blue Group, after doing the deal with Blue Equipment Ireland.

The scrap specialists who are located in Armagh, Northern Ireland have purchased the ACH773 shear baler to process the numerous types of both ferrous and non-ferrous metals that comes in from across both Northern Ireland and the Republic. The Shortt family have been in the scrap metal business for many years. Presently the company is headed up by father Jim and son Anthony.

The TAURUS ACH773 is a shear baler which is built on a single piece frame, eliminating the requirement for expensive foundations. As with all models in the ACH range, the 773 incorporates the original TAURUS BLULINE twin "swinging wings system" with over stroke function on both wings. The over stroke function increases the density of the scrap metal while also significantly minimizing frictional wear within the squeeze box. The internal surface of the squeeze box, as well as the internal and external surfaces of the wings, is comprised of wear resistant Swedish Hardox steel, which is notably thicker than competitor machines in its class.

A further feature of these industry leading machines is how well the vital components of the shear baler are protected, being housed in metal casing. Furthermore the shear blades offer '4 turns' rather than the standard 2, meaning the wear parts last much longer, which obviously reduces ongoing costs.

The machine is already proving its worth as an integral part of the site after just a few weeks, producing up to 20 tonnes of bales per hour. It isn't however just its processing power that is impressing Anthony Shortt, as he commented, "We take in all different kinds of scrap as we pride ourselves on offering a

wide range of services to our customers. The baler, with its advanced remote control system means it can go from producing bales to shearing heavy scrap consisting of different lengths to suit the different needs of our consumers within a few seconds and without moving from my cab"

The build quality of the equipment is also immediately obvious, with there being no vibrations or movement, even when the shear baler is dealing with really heavy scrap. In fact, previously the company had to pre-treat much of the heavy scrap that came in, whereas now, the baler can handle everything making the yard much more efficient.

The machine which has three cylinders on both wings, offering an impressive 400 tonnes of force each, was built within less than a week at the yard, with TAURUS sending over a specialist engineer to work with those from Blue Ireland. Describing the support received from TAURUS, Anthony said, "We did have a few teething problems after the engineer left, but I called them up and they were able to connect remotely to do some fine tuning. What was really impressive though was that they are 3 hours in front and the engineer was at home having finished for the day, but it wasn't a problem and he sorted everything out there and then"

The TAURUS Bluline, range of shear balers as well as the Blackline shear balers and Redline scrap pre-shredders are available in the UK and Ireland exclusively through Blue Group.

Liam Brophy, Sales Director at Blue Ireland also commented, "Shortts are a very forward thinking business, always looking for ways to support their customer base and make their business more efficient and productive. As we would expect, they carefully analysed the shear baler market before purchase, illustrating the superior quality of TAURUS as it was their equipment that came out on top."



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Next generation 2-Ram Balers from Lyndex Recycling increases power and versatility for modern MRF operators



Lyndex's new II ram LT820 1x55kW
Rated Throughput 5-6 Tonne

The highest performing two ram baler on the market

In response to increasingly accurate separation and segregation of material recycling fractions, Lyndex Recycling Systems, the UK's leader in the design, manufacture and supply of high volume balers and waste recycling machinery, has introduced a second-generation range of 2-ram balers. These offer new levels of versatility and throughput for MRF operators large and small, as well as metal and plastic re-processors.

Designed and manufactured in the UK and available in five different models, the Lyndex Ram II is a medium range baling solution developed to work with multiple waste streams including OCC, Paper, PET and HDPE, steel cans and non-ferrous metals, through to mixed solid waste and RDF.

The five new machines are available in a choice of size and footprint, with wide or narrow box construction to suit different bale formats and with a main ram press force ranging from 80 to 160 tonnes, to match different waste streams as well as volume, speed and throughput requirements.

Advanced hydraulics operating at 4500 psi (315 bar), as opposed to more typical 2500 psi (175 bar) to 3000 psi (215 bar), enable the Lyndex Ram II to operate with a smaller diameter main cylinder, reducing the footprint of the machine compared to competing products, yet delivering equivalent or increased press force and ram speeds.

This combination, together with energy efficient variable speed displacement pumps to maximise available kilowatts and sophisticated programming, also delivers significantly improved cycle times, helping to improve productivity and throughput for today's operators.

Versatility has been a key design focus for the new 2-Ram range. The Lyndex operator interface is equipped with a 16-material grade 'recipe' system that allows machine operating parameters to be changed at the touch of a button to suit the particular recyclate being processed. This covers machine pressures, photocell selection, machine intelligent lamination calculator, tying patterns and other parameters to optimise the production of each material grade. Further customisation to fine tune individual recipes to suit changing waste fractions is also possible.

In addition, bale tying systems include galvanised steel wire, plastic strapping or both. Where both tying heads are fitted these are selected by the flick of a switch or programmed into the material grade recipe system and switched automatically each time that recipe is selected.

Further versatility is introduced with the Lyndex Flex-Door, enabling fully automatic baler operation either in Plug Mode, a feature typical of channel balers, or Bale Separation Mode. Plug Mode is normally used to speed up production for fibre based materials including OCC and paper waste, the completed bale is only partially ejected, with the inner end acting as a 'Plug' to block the exit, so that bales are extruded as a continuous stream.

In Bale Separation Mode, the Flex Door closes off the main chamber which retains the material within the chamber throughout the baling cycle, on ejection the door retracts presenting a neat bale end. This is particularly useful for materials like PET and HDPE which would otherwise fail to keep its shape or integrity due to material 'memory', which in turn could cause handling and loading issues for onward transportation.

Commenting, Doug Lord, sales manager at Lyndex Recycling Systems said: "While two ram machines offer the highest compressive force, there is often a trade off in throughput. We have developed the Lyndex Ram II family of machines to provide a truly powerful yet versatile baling solution that delivers the compressive force of the two-ram design, but with features to deliver cycle times more akin to channel balers. The new range will out-perform the ram speed and baling cycle time of any other two ram balers of equal horsepower on the market. They offer a number of low maintenance design features, 16 pre-programmed baling modes and a range of options to suit most production environments."

Of course, bale density, shape and integrity, is a key reason for selecting a two-ram solution and the Lyndex Ram II family is designed to produce bales of exceptionally uniform density. This is achieved by designing a machine with high 'ram face pressure' and a main ram that is designed to penetrate the bale chamber to within 150mm of the chamber back wall, or 85% of the volume, ensuring that each lamination is subjected to maximum compression.

Dependant on model, prices are from £250,000 to £320,000. The Lyndex Ram II is available to order with a range of options to suit different production environments including paper conditioners, feed conveyors and hoppers, together with advanced remote diagnostics and cloud-based data logging for improved operational control and reduced downtime.

“Volvo’s L45H is spot on...”

So says Harry Parry, proprietor of Pwllheli based HM & BP Parry trading as Gwrtait Gwynedd about his loading shovel after nine months since purchasing it from SMT GB’s utility dealer for North Wales – Mona Tractors Ltd...

The Volvo L45H is being deployed handling green waste, waste wood and road sweepings at Mr. Parry’s recycling business. “Prior to this we used to run tele-handlers but found the maintenance costs quite high in this type of application,” explains Harry. “We have had a strong relationship with Mona Tractors for many years, since our other activity is farming, and so when they took on the franchise for the Volvo compact equipment we felt confident enough to give the Volvo loading shovel a try.”

Because of the ongoing telehandler issues, SMT GB in conjunction with Mona Tractors arranged to loan HM & BP Parry a used shovel whilst awaiting the delivery of their new 8.8 tonne L45H. “The machine we borrowed had 10000 hours on the clock but it still felt extremely robust with virtually no wear in the linkages and was a pleasure to operate,” continues Harry. “It really endorsed our good decision to buy the L45H and having been running it since March the machine hasn’t skipped a beat and is extremely economical on fuel – it’s really spot on!”

The L45H is powered by a Volvo four litre, four cylinder Stage IV final engine developing 99.3 hp and a maximum torque achieved at just of 1450 r/min. This in turn is directly linked to a fully hydrostatic transmission providing a maximum speed of 30 kph. Specifically for HM & BP Parry’s recycling operation, the machine was equipped with a 1.5m³ general purpose bucket and 15.5R25 Nokian tyres. “Getting the specification of the tyres right was crucial for our operation and these tyres provide a high degree of traction, superb wear characteristics when working on the concrete pads yet are flexible enough to work efficiently on soft ground when we occasionally use the machine around the farm,” explains Harry.

The main duties for the L45H however are in the recycling yard where it handles incoming material from all over the north of Wales. This includes green waste, wood waste, road sweepings and inert building waste. The green waste is constantly being turned in windrows as it breaks down, the wood is shredded and graded and the road sweeping are screened then washed before plastics, metals and other recyclable material is recovered from it. The majority of the processed material is composted and used on farmers’ fields - including Harry’s.



HM & BP Parry is a husband and wife team that has farmed the land around Pwllheli for many years. It was in 1998 that Harry Parry saw an opportunity to branch out and start recycling material to compost for his own farm and the recycling business has grown significantly since then and now recycles up to 25000 tonnes of green waste per annum.

Mona Tractors Ltd is SMT GB's utility dealer covering the North of Wales marketing compact excavators from 1.5 up to 8.8 tonnes and compact loaders from 0.8m³ to 1.5m³ capacity. The company has three outlets across the region including Ruthin, Anglesey and Pwllheli.

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



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Warwick Ward provide Monks Contractors with Terex® Ecotec shredding efficiency.

Established in 1993 Monks Contractors is a family run business which is based on a 6.5-acre site on the outskirts of Blackburn, where the company operate a full-scale HGV, mechanical and electronic workshop alongside a fleet of single and double drive wagons and state-of-the-art plant machinery.

From very small beginnings the company has developed into a successful haulage, plant supply and waste management provider and has a portfolio of multi-national blue-chip clients.

Recently the company has invested in two Terex® Ecotec TDS 820 Slow Speed Shredders which have been supplied by Warwick Ward who are one of the UK distributors for the full Terex® Ecotec Range.

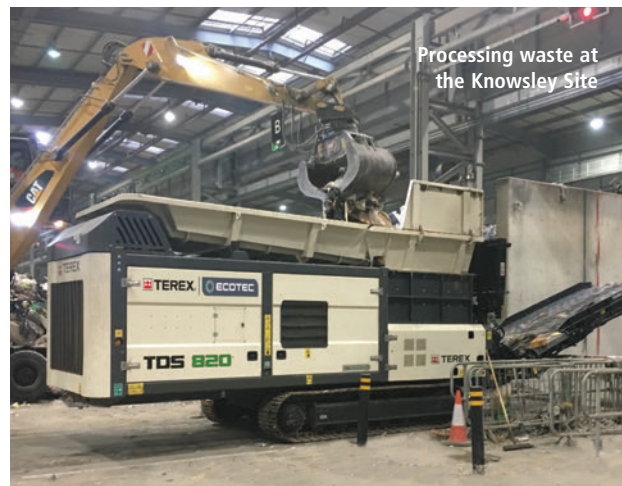
The waste management sector is no stranger to Monks Contractors who have been very successful in this industry in

recent years supplying the manpower, machinery, wagons and expertise. The investment in two Terex® Ecotec TDS 820 Slow Speed Shredders forms part of the expansion of their services to the waste industry.

Chris Monk- MD, takes up the story, "We went into recycling approximately 15 years ago which really happened by chance when we had an opportunity to move into the industry. We have to date been providing material handlers and loading shovels and transport for several blue-chip waste companies and only entered the shredder market when a client who had a shredder on hire approached us for help as they were not happy with it.

Their requirement was just to simply reduce the waste down to a specific size for incineration. We realised this was an opportunity to invest in a shredder and as we have sourced Case equipment with Warwick Ward for many years it made sense to approach them as they also represented the Terex® Ecotec range of equipment."





After discussion and a demonstration of the Terex® Ecotec TDS 820 Shredder, the machine was presented to the client on-site and after further consultation and demonstration a long-term hire agreement was agreed for two shredders on both their Blackburn and Knowsley sites.

James Tunnicliffe of Warwick Ward, commented, "We had sold a number of machines over the years to Monks Contractors and when Chris approached us we arranged a demonstration of the TDS 820. This was very successful, and Chris clearly saw the benefits of the machine, in particular, how user-friendly the machine is. Customisable shredding programmes allow operators to configure the machine to their specific requirements and easily achieve 40tph on difficult material. With the horsepower and torque behind it, it will reduce wrappage and maximise production; it is undoubtedly the best machine in the market for general waste."

The Terex Ecotec TDS 820 Slow Speed Shredder:

The TDS 820 is an aggressive slow speed tracked shredder suitable for all types of material. The customisable shredding programmes allow the machines to be configured to suit specific requirements, whilst reducing wrappage and maximising production.

Additional features include a tipping feeder enabling the feed to be increased and a hopper extension which provides increased capacity in bulk applications.

A hydrostatic drive increases the protection against contamination and enables bi-directional shredding. The double shaft shredder has 2m long shafts with a fully welded tooth configuration, impressive throughput and reduction.

Easily manoeuvred by a robust tracked undercarriage the TDS 820 is at home even on difficult terrain.

The required end-product:

Chris summarised, "It was clear that it is a very competitive machine on price and ability; it achieves the required reduction and the desired end-product. We chose the TDS 820 because of the independent shafts that minimise wrapping and blockages on tough waste applications; it's fuel efficiency and versatility on multiple waste applications.

We see machine hire in the Waste Industry as a growth market and as such we are investing in a Case 721 loading shovel and two more Terex® Ecotec shredders, the first of which will be delivered in March.

Our clients are impressed, and we have confidence in the Terex® Ecotec machines and the back-up from Warwick Ward – long may it continue!"



Terex® Ecotec - with you every step of the way:

Terex® Ecotec fully understand the importance of listening to customer needs, with their vast product and application knowledge not to mention the range of innovative machines available, end users are sure to find the correct machine for their applications.

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

Readily available from the global spare parts distribution hub and dealer network, Terex® Ecotec are committed to getting the right parts delivered at the right time. Using genuine Terex® parts ensures optimum performance and reliability.

In conjunction with the dealer network, highly qualified service personnel are provided to ensure that expert technical support is available when needed. Terex® Ecotec ensure that customers are supported throughout the lifecycle of their machine.

Terex® Ecotec can offer finance solutions to their customers. A dedicated team of finance professionals know the importance of working closely with customers to understand their unique business challenges as well as their financial goals and requirements. Obtaining financing is often a time-consuming task, Terex® Ecotec work hard to provide a reliable, flexible and responsive service.



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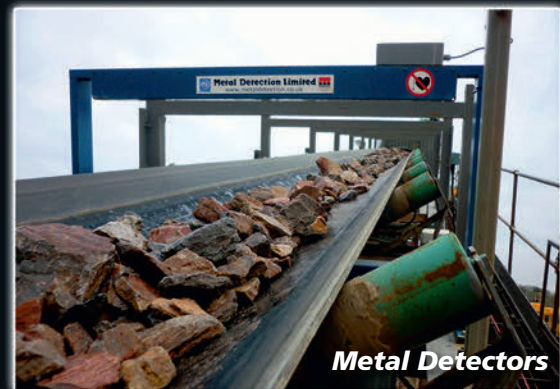
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Finlay Central's space saving solution for transfer station

A North Staffordshire waste disposal company has invested in an innovative space-saving solution for its transfer station.

Tidysite Skip Services, which has its headquarters in Chesterton, Newcastle-under-Lyme, has bought a new Terex Finlay J-960 from Finlay Central, part of the Finlay Group of companies.

The fourth generation, family business took delivery of the machine last year.

With over 25 years' experience in the industry, Tidysite Skip Services accepts a wide range of waste, from commercial, general household and metals, to building rubble, garden refuse and soil.

Committed to providing a specific solution for each job, the business provides mini, midi, builder's and factory skip hire, as well as site clearance and low loader, hiab, mini digger and 360-degree excavator hire.

The J-960 will be working at the company's transfer station, processing incoming inert demolition waste and hardcore derived from the skips.

The plant will also be available for hire as well as offering it as part of a package deal, incorporating their own highly-experienced operators along with an excavator and wheel loader for demolition, recycling and quarry work.

Andy Hampton, Tidysite Skip Services, said: "The crusher joins our expanding fleet and we've introduced it to our new site.

"It's been a big step for us, but it means that we no longer have to hire a crusher and we can process material whenever we need to.

"We can now accept more material from new and existing customers, as well as having additional recycled products on offer."

A 30-tonne, aggressive mobile jaw crusher, the J-960 is the

most compact in size in the Terex Finlay range, making it the ideal machine for both small and medium sized operators' areas, where space is limited.

Although smaller, the performance of the Terex Finlay J-960 is not compromised.

Features include a proven direct drive single toggle jaw crusher, to offer high capacity with large reduction capacities, as well as a heavy-duty hopper with an integrated vibrating grizzly and pan feeder as standard.

The option of selectable discharge to either the by-pass conveyor or main conveyor, also maximises the performance of the plant as well as reducing the wear on the chamber by removing fine material before it enters the jaw.

Neil Bailey, Sales Director at Finlay Central, worked closely with the company to introduce the Terex Finlay J-960 to the site.

He said: "The J-960 is a proven, highly regarded jaw crusher that's been around for years.

"The size and weight of the machine means it can be put onto a low loader and be working on a job in no time.

"It's the ideal machine for Tidysite Skip Services – its compact size reduces the amount of space it takes up in their transfer station.

"We're really happy that we've found a machine that suits their business needs so well."

Andy added: "Neil Bailey was brilliant when we were purchasing the machine.

"He trained our operatives to use the machine safely and how to obtain the best results."

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Eriez Europe supplies an additional two Separators to Re-Gen Waste Ltd.



Increased demands for efficient recycling has resulted in plants such as Re-Gen Waste Ltd based in Newry, Northern Ireland processing over 140,000 tonnes per year of MDR, in a 24-7 operation. Earlier last year a two million pound expansion was carried out as part of a nine million pound wider investment, including the upgrade of Re-Gen's MDR (Mixed Dry Recycling) and paper recycling lines.

In order to improve metal recovery Re-Gen tasked Eriez Europe with selecting suitable magnetic separators from their extensive range of products. Subsequently, two identical 2000mm wide ST22-80 Eddy Current Separators (ECS) were supplied and installed on the MDR and paper recycling lines in addition to the existing ST22-80 ECS on the MSW (Mixed Solid Waste) processing line installed in 2015.

The two ECS units include Eriez OBM Vibratory Feeders to maximise material spread across the full width of the ECS units, allowing for optimal separation performance. On both waste streams the ECS units are removing valuable aluminium from material such as paper, plastic and film at throughputs up to 30TPH.

In addition to the separation solutions provided by Eriez Europe, a CP20/120 Overband Magnet was installed to

recover profitable ferrous metal, as well as providing protection for the ECS units downstream.

The high levels of metal separation from the new Eriez ECS units have contributed to Re-Gen reducing overall contamination. In addition to providing higher quality waste material and increasing profitable aluminium recovery by 2%.

Re-Gen Waste's Mechanical Engineer, Louth McMahon comments, "Recent changes in the market prompted Re-Gen to identify areas for improvement in our MDR and paper processing lines. Eriez Europe assessed our requirements and supplied two new ECS systems which are proving very effective in reducing our metal contamination and improving the quality of our recycled materials."

Gareth Meese, Sales Director at Eriez Europe commented: "The recycling industry continues to be a key area of focus for Eriez Europe. Through the development of our separation technologies we have added significant value to our customers processing requirements. Eriez Europe are pleased to see the vast improvements to Re-Gen's metal contamination reduction from the new ECS units."



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Recycling Plants: Maximising Space to Process Waste More Efficiently

Having a small site doesn't necessarily mean you can't expand or find ways to make your waste recycling plant more efficient. Innovative solutions can be found to upgrade your existing processes without using up excess space in your yard or building, as storage space is often at a premium in most sites.

It can also help to take a closer look at how your current recycling plant equipment is functioning:

- Are there areas where material is building up and not flowing consistently?
- Could there be blockages where your throughput is being compromised?

It's quite easy to change individual components to increase capacity and therefore process more input material through the recycling system.

How Tom White Waste & Ground Waste Recycling maximised their space

There are some great examples of how waste recycling companies have maximised their existing space. These projects have been in partnership with Kiverco, one of the



leaders in the design and manufacture of solid and robust recycling plants. Tom White Waste and Ground Waste Recycling, both based in the UK, approached Kiverco with quite specific requirements for improving and increasing their waste plant efficiencies.

Ground Waste Recycling required a solid and robust plant, processing up to 35TPH of Construction & Demolition waste.



Waste Sort & Separate

With a small footprint both companies had to work closely together on several revisions of the plant layout to ensure it fitted into the yard. One of the solutions that Kiverco's design team came up with, to reduce the footprint, was to use a 3D combi screen instead of a separate trommel and flip flow screen.

"We have seen a great improvement in the recycling of materials which has reduced our landfill percentages and our carbon footprint. Installation was within 2 weeks as promised and everything went to plan." Mirelle Quigley, Operations Director, Ground Waste Recycling Ltd



Tom White Waste needed to develop significant additional waste processing capacity, both to service their present markets and to take the business into new market segments such as the production of Refuse Derived Fuel (RDF). At the same time, they needed to retain floor space for storage transfer and loading operations. Designed to process up to 100,000 tonnes of mixed waste per annum, Kiverco's design team exploited the height available within the building and installed the trommel at height with the fines clean up system underneath. This helped to minimise the plant footprint.

Less than 140m2 of available space? Consider Compact / Mobile Recycling Plants

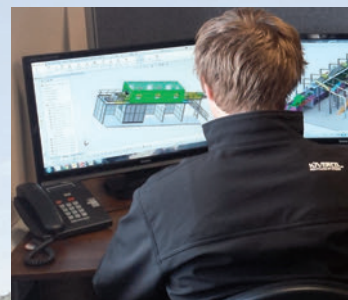


Another option to consider is a compact or mobile recycling system. Kiverco have recently launched a new Compact Recycling Plant which is ideally suited for smaller sites. The plant includes a trommel, picking station and density separator but the entire plant, when assembled, only occupies less than 140m2. With the added advantage of mobility, mobile recycling equipment like this is also of interest to mobile contractors or anyone working at a site on a temporary licence.

How Can Kiverco Help?

At Kiverco, their wealth of experience, designing and installing recycling systems, allows them to come up with innovative solutions to help you upgrade your existing processes. Through their experience and professional

relationships with world leading technology partners, such as Spaleck, Rentec, Steinert & Walair, they are experts in selecting the right piece of equipment to suit your plant. Their relationships with partners are not exclusive and they will always advise based on the equipment that can provide the most efficiency and better return on investment.



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Skipton Properties has UK's first R 920 Compact in

Builder and property developer Skipton Properties has a growing fleet of Liebherr machines, including an R 922 crawler excavator and a PR 736 crawler tractor. Its latest purchase is the first R 920 Compact excavator to enter service in the UK and the company's first task for its new machine has been on a large housing development in Haworth...

Builder and property developer Skipton Properties has returned to Liebherr for its latest purchase: the first R 920 Compact excavator to enter service in the UK.

Founded in 1986 by current Managing Director Brian Verity, Skipton Properties is a multi-award-winning developer with over thirty years' experience and a mission to create homes that are sympathetically designed and woven into their natural surroundings but also energy efficient and sustainable. The family-run company develops distinctive residential properties built with quality materials and prides itself on the quality of workmanship from its teams of long-serving craftsmen.

Unlike many developers, the company owns and operates a mixed fleet of earthmoving and civil engineering plant to undertake quarrying, landfill and property development throughout the Yorkshire region and into Lancashire. Skipton Properties has recently purchased a number of excavators and a dozer from Liebherr-Great Britain. The company's fleet now includes a Liebherr PR 736 dozer, an R 922 excavator and its new R 920 Compact.

Launched at the end of 2016, the R 920 Compact complements the popular R 914 and R 926 Compact excavators that are already in the range and the soon-to-be-launched R 936 Compact crawler excavator.

With an operating weight between 19 and 21 tonnes, depending on specification, the R 920 Compact is powered by a Stage IV / Tier 4f emission standards compliant 150 HP diesel engine that is longitudinally mounted to the offside of the upper structure. The mounting of the engine, hydraulic pump and cooling system allows for the reduction in the rear overhang, which is only around 600 mm in the specification chosen by Skipton Properties.

Constructed around a tried and tested X-frame undercarriage that can be specified with an optional dozer blade, the R 920 Compact packs a lot into its small frame. In common with reduced tail swing machines from a number of manufacturers, the Liebherr cab has seen a reduction in depth to accommodate the internal mechanics of the excavator. This reduction has enabled Liebherr's designers to install an access panel that gives service personnel safe access to the top of the upper structure. The height of the upper structure has been kept to a minimum to increase the view to the rear of the machine from the operator's seat. The



offside of the excavator is dominated by the large gull-wing canopy that covers the engine, hydraulic pumps and cooling pack, all of which are safely accessible from ground level. All daily checks can be made from the ground or via the operating system within the cab. The four-cylinder diesel engine has been developed to be extremely fuel efficient and environmentally friendly.

The R 920 Compact has been supplied in a basic ground works specification with a long undercarriage sitting on 700 mm pads, a 5 m mono boom and a 2.65 m dipper. A Hill TEFRA lock and Hill TITAN buckets complete the package. Perfectly balanced and producing almost 100 kN of breakout force, the R 920 Compact excels in both excavation and lifting operations, thanks to the powerful 300 litres / min hydraulic pump, and with the refined hydraulic system, control of the excavator's functions is precise and intuitive. Capable of a maximum dig depth of almost 6 m and a reach of over 9 m, the machine can compete with any other machine within this class.

Skipton Properties' first task for its new purchase has been on a large development in Haworth where the company is constructing a selection of detached homes and retirement apartments adjacent to the heritage railway line, which is a huge draw for the area.

The well dimensioned, well specified and economical excavator has made a good impression at Skipton Properties and joins a growing fleet of machinery from Liebherr. Roger Sadler, Plant Manager at Skipton Properties, said: 'Even with the compactness of the R 920 Compact, the lifting power is excellent and the cab is really spacious. The controls are intuitively laid out, easy to reach and operate. Our operators and ground workers are very surprised by how quiet the machine is in operation both inside the cab and working with the machine externally. But the Liebherr really shines when it comes to maintenance: all service points are accessible with ease from ground level so that daily checks can be quickly and safely carried out with minimum downtime.'



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Superior Builds Longest Road-Portable Telescoping Conveyor

Superior Industries Inc., a U.S. based manufacturer and global supplier of bulk material processing and handling systems, has manufactured the first ever 210-foot (64m) road-portable telescoping radial stacking conveyor. This TeleStacker® Conveyor, designed

and built for a frac sand operation in Texas, is the longest one of its kind ever built.

The 210-foot (64m) conveyor has a stockpiling capacity of 400,000 U.S. tons (363,000 MT), 30% more than any other telescoping conveyor on the market. According to Superior, the company's solution is less than half the cost of a fixed or stationary tripper conveyor with the same capacity.

In addition to high capacity frac sand applications, operations that may benefit from a longer unit include sites that need to build inventory with large tonnage stockpiles and shipload applications. A 210-foot (64m) telescopic conveyor will fill a vessel hold more completely than shorter models.



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Kasco Mining and Construction Ltd Choose Rapidmix Mobile Continuous Concrete Mixing Plant for Mine Backfill Application in Tanzania

Rapid International Ltd (County Armagh, Northern Ireland) has recently supplied Kasco Construction Ltd (Mwanza, Tanzania) with a new Rapidmix mobile continuous concrete mixing plant for production of mine backfill within a mine in the North Mara region of Tanzania.



Kasco Mining and Construction Ltd is a subsidiary of the larger Kasco Group, located in Tanzania, Africa and established in 2005. Originally a micro equipment hire contractor, Kasco Group has grown to be one of the leading mining, concrete, infrastructure and earthworks contractors in the Tanzanian construction and mining sector. Kasco's primary business activities include construction of heavy traffic roads, drainage, road maintenance, pipe lines and culverts, as well as total solutions in mining, drilling, construction and earthworks services. The Group also provide long distance haulage and transportation across regional countries.

Kasco purchased the Rapidmix 400CW mobile continuous concrete mixing plant for production of mine backfill in Tanzania, for one of Africa's largest mining organisations. Mine backfill is the process by which material is used to fill the voids/cavities created by mining excavations. If the voids are left unfilled, this can create instability not only for extraction of adjacent pillars underground, but also above ground, leading to subsidence. Mine backfill makes effective use of waste rock extracted during the mining process by reusing it as aggregate within the backfill mix. There are typically four types of mine backfill: Dry Fills, Cemented Rockfill, Hydraulic Sandfill and Paste Backfill. Kasco selected to utilise a Cemented Rockfill as the backfill type. Cemented Rockfill is comprised of waste rock mixed with a cement slurry to improve the bond strength between the fragments of rock. In terms of mix design, Cemented Rockfill contains cement slurry concentrations at typically 55% by wt. and a



mixture of coarse (<150mm) and fine (<10mm) aggregates. In this application the Rapidmix 400 CW mobile continuous concrete mixing plant mixed a pre-graded aggregate, cement and water to produce the backfill.

With outputs of 400TPH, the Rapidmix machine enabled Kasco to deliver faster and more efficiently on the project. Using their own fleet of Volvo dump trucks alongside the Rapidmix 400CW mobile continuous mixing plant, Kasco were able to complete the backfill process faster, resulting in less delays in the mining cycle resulting in saved time, manpower, and money. Jarlath Gilmore, Sales and Marketing Director – Rapid, commented, "We were pleased to have supplied Kasco with a faster and most efficient solution to their mine backfill production requirements. Kasco were highly satisfied with the Rapidmix capabilities and the cost savings achieved."

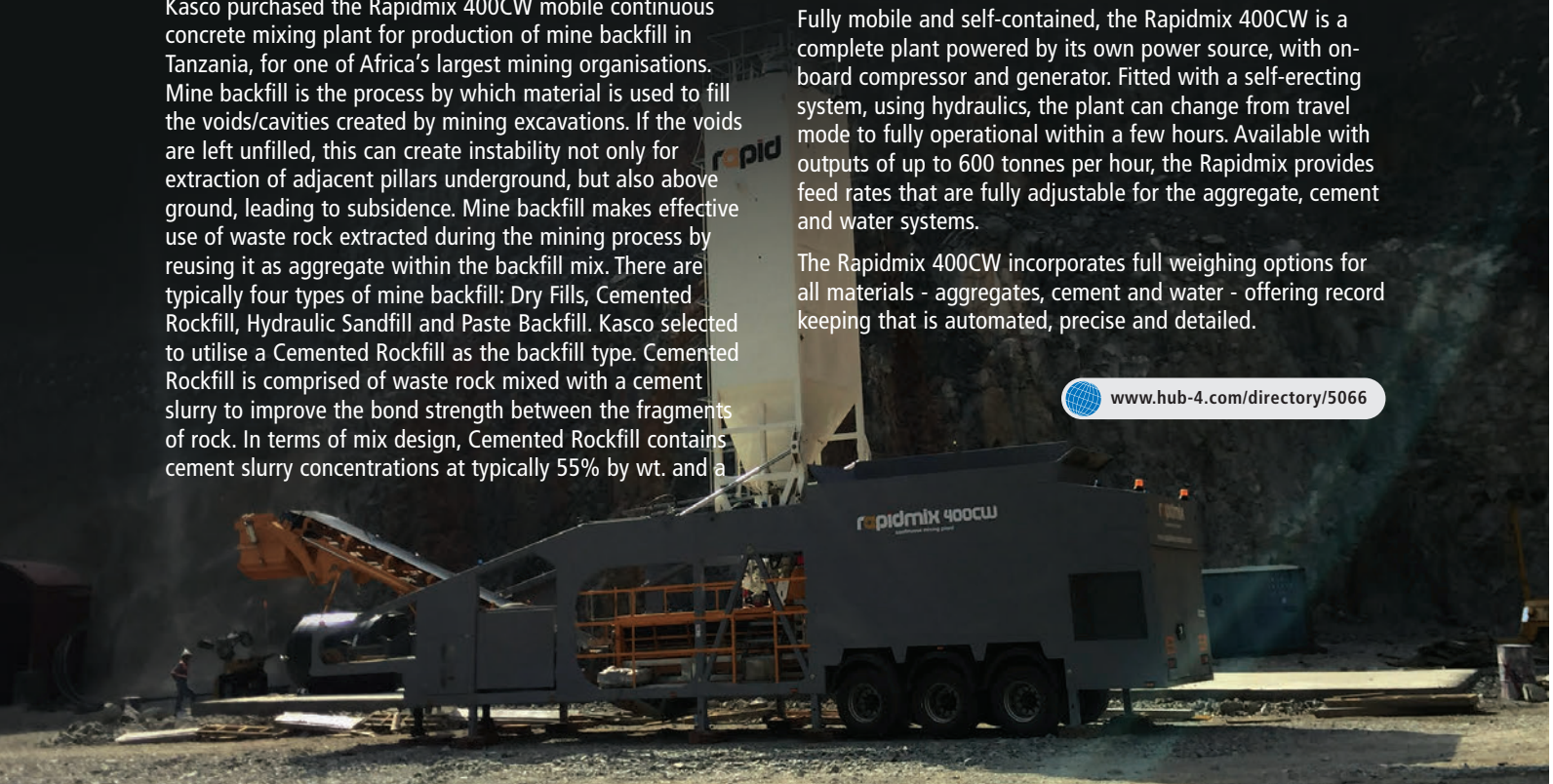
The Rapidmix 400CW plant produces high quality controlled mixtures for utilisation in a range of applications – from airport runways and contaminated land treatment to dam construction and soil stabilisation. The mobile nature of the plant combined with the technically advanced design, is most advantageous in meeting the supply and demand requirements on projects. The Rapidmix provides a cost effective solution for on-site projects where high specification compliance coupled with a high volume fast throughput are essential.

Fully mobile and self-contained, the Rapidmix 400CW is a complete plant powered by its own power source, with on-board compressor and generator. Fitted with a self-erecting system, using hydraulics, the plant can change from travel mode to fully operational within a few hours. Available with outputs of up to 600 tonnes per hour, the Rapidmix provides feed rates that are fully adjustable for the aggregate, cement and water systems.

The Rapidmix 400CW incorporates full weighing options for all materials - aggregates, cement and water - offering record keeping that is automated, precise and detailed.



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Conveyor technology helps 'Gold Rush' team compete

Chances are, if you mention the phrase "gold rush" to anyone associated with the mining industry, they'll know you're talking about the most popular show on the Discovery channel, cable TV's #1 unscripted series for three years running. With new episodes attracting as many as 5.5 million viewers, the series has propelled the network to the #1 non-sports broadcasting spot on all of TV on Friday nights. Currently in its eighth season, Gold Rush follows the exploits of three competing mining teams led by Todd Hoffman, Parker Schnabel and Tony Beets as they seek to extract the most placer gold from their operations.



From left to right: Freddy Dodge, Andy Spinks & Trey Poulson from Team Hoffman, with Seth Mercer, Kevin Mercer and Steve McKenna from Martin Engineering.



The CleanScrape design provides as much as 4x the lifespan of conventional belt cleaners.



The V-Plow protects the tail pulley and belt from fugitive material on the return side.

The Hoffman crew competes under the banner of the 316 Mining Company, with a team that includes Todd, his son Hunter and father Jack, as well as career miners Trey Poulson, Freddy Dodge, Andy Spinks and Jim Thurber. While their operations may be small by commercial mining standards, the competition is fierce, with season eight highlighted by a high-stakes wager between the Hoffman and Schnabel crews: 100 ounces of gold to the team that mines most of the highly-prized mineral.

With gold currently valued at more than \$1200 an ounce, all three teams try to squeeze every ounce from their operations, and they rely heavily on their conveyors to efficiently transport up to 300 tons per hour of raw material for 12 hours per day at 400-450 fpm (2-2.3 mps). Processing begins when dump trucks empty their loads into a hopper. Rocks larger than 6 are scalped off, and the remaining load gets screened to separate the fines from the bulk. Fines are then run through a sluice box to wash out the gold particles.

"In a highly-competitive situation like this, we must collect every fraction of an ounce from the source material," commented Trey Poulson. "Our goal this season is 5000 ounces, and we can't afford to leave anything behind. So even a small amount of carryback or spillage from the conveyors is a serious issue for us. In these operations, we don't have extra manpower, so any downtime for maintenance or repairs can be a disaster for us. We can't afford to stop processing and shovel out spillage or make repairs during the 12-hour window that we're permitted to operate each day."

First Challenge: Belt Cleaning

Poulson said that his goal is to extract an ounce of gold for every 100 yards of material processed, which is about four truckloads dumping into the hopper. When the team first started the operation, they were using the existing belt scrapers on the conveyors to clean any fines that remained on the belts at the discharge points. "The original belt cleaners weren't as effective as we needed them to be," he continued. "They were leaving some carryback on the belt, and we even had a couple of them cam over and jam up the conveyors. On one, it actually ripped the belt."

That's when a chance meeting at a trade show gave Poulson the opportunity to meet representatives from Martin Engineering, one of the innovators and premier suppliers of components to make bulk material handling cleaner, safer and more productive. He stopped by the company's exhibit at the event and started a conversation about some of the problems they were experiencing. The reps were confident that Martin components could resolve the issues and help the Hoffman team in its quest to out-produce the competition, and Poulson gladly accepted the company's offer to supply 316 Mining with high-efficiency belt cleaners.

"Belt cleaning was one of our biggest obstacles at the time," he recalled. "We were wasting both material and labor, and we couldn't afford to give that advantage to the competition."

Martin Engineering technicians traveled to the Colorado site and reviewed the entire conveyor network, recommending specific cleaner designs for each application. On one they recommended the company's patented CleanScrape® design, which is engineered to provide as much as 4x the lifespan of conventional cleaners in difficult applications. "When I first met with the Martin guys, I had trouble envisioning how it would work. It's unlike anything I've seen in my 20 years of mining. But it's been in service for six months without us having to touch it. And the cleaning performance is great."

For the wet conveyor, the Martin technicians selected a heavy-duty primary belt cleaner that features unique technology to maintain the most efficient cleaning angle throughout its service life. Equally important given the time constraints of the competition, the blade features a no-tool replacement process that can be performed safely by one person in less than five minutes. For the secondary cleaner, a rugged design with individually-cushioned tungsten carbide blades was installed to withstand the punishing conditions.

"These conveyors experience all the same challenges faced by massive corporate mines," observed Martin Engineering Territory Manager Steve McKenna. "And because they have such an abbreviated time frame in which to operate, every hour counts."

So, we focused on the designs engineered for long service life and minimal maintenance."

In a move to further reduce the chances of fugitive material problems, technicians also installed tail pulley protection in the form of a V-plow. "Bulk material bounces when it encounters a fast-moving conveyor and often shifts as it travels over carrying idlers," said McKenna. "These disturbances can eject small amounts of material from the belt. Occasionally along its return run, the belt will collect lumps of spilled material on the non-carrying side. If it's not removed, it can become trapped between the tail pulley and the belt and do significant damage to both."

Secondary Objectives

Once the belt cleaning systems had been fine-tuned, Poulson and McKenna turned to some of the other challenges faced by the 316 Mining crew. Another issue that Poulson and his crews had been battling was belt tracking. "Rain, snow and freezing temperatures can all affect conveyor operation, especially when the carryback gets some ice on it," Poulson continued. "So, achieving a clean belt was a critical first step. But we were still getting some belt wander."

McKenna came through again, this time with a new design for a roller tracker to stabilize fast-moving belts. Based on a standard crowned roller, the tracking mechanism uses a unique ribbed lagging made of durable polyurethane to increase performance and wear life. The roller does not come in contact with the belt edge, which minimizes fraying while delivering excellent tracking for single-direction or reversing belts. The result for the Hoffman crew is a more centered cargo load, less spillage and increased safety from the hazards of belt wander, leading to higher productivity and lower cost of operation.

The conveyor to the crusher presented a different problem. While the belt needed tracking assistance, the framework prevented installation of a standard unit on the 42 wide belt. "We figured out a way to modify a 36 unit to fit on the wider belt," said McKenna. "This kind of thing comes up occasionally in the field, and we try to be ready to get creative when we need to."

Further safety enhancements included Martin Engineering conveyor guarding to protect workers from pinch points and other hazards. The modular guards allow workers to do their jobs with reduced risk and greater efficiency,



The Roller Tracker centers the cargo, reduces spillage and increases safety.



Modular conveyor guards protect workers from pinch points and other hazards.



The Roll Gen system uses energy from the moving conveyor belt to generate power for lighting at night.

while helping to ensure plant compliance with safety standards and regulations. The user-friendly design of the new guards is seen in standardized panels that take a systematic approach to guarding, with the flexibility to fit virtually any conveyor design. Wedge clamps allow the panels to be removed and reinstalled quickly and easily, so systems can be expanded or relocated as needed.

"No matter how large or small the mining operation, safety is the top priority," said Poulson. "We're no different. We want

The heavy-duty primary belt cleaner can be replaced safely by one person in less than five minutes.

our crew members to go to bed every night with all their body parts intact."

The most recent Martin Engineering addition to the 316 Mining operation has been the installation of the company's patented Roll Gen™ system, an innovative technology that uses the kinetic energy from a moving conveyor belt to generate enough power to run a wide variety of electrical or electronic systems.

"There are limits on the operating hours at this location," Poulson explained, "and we're only allowed to run generators until 7:00 pm. With this system in place, it runs all day off the conveyor belt, storing energy in a battery bank. Then we use that stored power to run our security lights all night long.

Designed to create a self contained mini power station, it can be retrofitted on existing idler support structures, and operators are not required to maintain a special stock of conveyor rollers, as the generator can be employed on virtually any steel roller. "This device is considered a first step toward eliminating power production obstacles, as conveyors move into the next generation of 'smart systems' that are predicted to be more sustainable and autonomous," McKenna added.

"The components that Martin has provided have made a huge difference in our operations," Poulson concluded. "We're faster, safer and more efficient as a result, and I can't say enough about the services these guys have delivered. It's the best I've ever seen in my two decades of mining. We've developed a close relationship with them, and we're very grateful for the incredible support they've given us."



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Elite Lego blocks win-win for Network Rail

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.

Our focus is on driving down the cost base and then passing these savings onto our customers. This enables us to provide a constant and predictable price structure which in turn underpins our ethos of developing customer relationships over the long term. Indeed, over 65% of our clients have done business with us on at least two previous occasions. We have clients ranging 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

We have a huge range of 'semi-dry' and 'wet-cast' products which we supply to every sector of UK industry imaginable. These include service protection and drainage products through kentledge ballast blocks, safety and security barriers to our premier ranges of interlocking wall blocks.

Elite are 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.

We offer 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... 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 our high quality concrete, that doesn't contain any steel reinforcing or recycled aggregates, which means they are extremely fire retardant. Our blocks are recommended by many insurance companies and are approved for use as firebreaks.

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

Elite Lego blocks win-win for Network Rail

An example of the innovative usage of our 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.

To carry out the work with lines open would need the crane to unload, move and slew 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 throw-away 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 10-foot width over the half mile stretch of track to be replaced.

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 win-wins 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 are very proud to have helped to ensure both the safety of the workforce and the completion of the works ahead of schedule. Our high strength 'Lego' blocks have an almost endless range of uses and the vision of the Network Rail engineers in choosing our product means that we are able to add yet another to the list.

Design & manufacture

All our products are made to the highest standards at our two extensive modern manufacturing plants in Telford, Shropshire which cover 50,000 sq ft 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 us 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

Our in-house support team are 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.

Our customer service and technical departments are renowned for their ability to modify and adapt our 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 our products is something we take very seriously. We operate within an approved BS EN 1917 quality system. We are one of the few manufacturers of precast concrete products in the country that can boast of having its own, purpose-built, testing facility. We regularly perform a number of tests on both finished products and the materials used to manufacture these products.

Turnkey installations

In addition to our simple wholesale supply business, over the last eight 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

We regularly keep over £300K worth of standard products in stock. This allows, in most cases, for delivery times of between 24 and 48 hours from receipt of your order throughout the UK. We can deliver anything from one block to many thousands on a variety of different vehicles including flatbed artics and crane offload. We also offer a full install service.

All our operatives are trained to the highest standards to make sure all products are loaded efficiently and correctly ensuring they reach our customers safely and in premium condition. An export service is available on request to anywhere in the world.

Environment

Because our blocks are made from 100% natural materials sourced from local quarries, they are 100% recyclable at their end of their life. Combined with the 120 year design life, they therefore provide the most environmentally sustainable solution currently available. Our production processes benefit from the most modern and efficient low energy equipment and we embrace best practice in all aspects including rainwater harvesting.

We minimise our carbon footprint in all areas including making the best use of the transport network by utilising back loads for the majority of our deliveries. This minimises the road miles that any of our vehicles have to travel empty and of course means lower prices for our customers.



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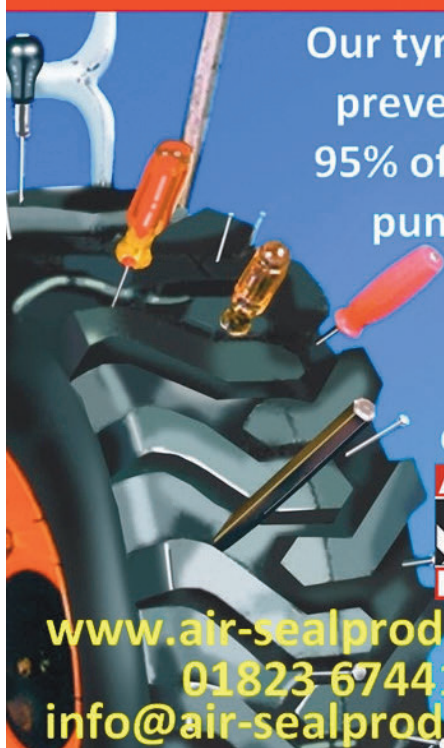
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Please reply with a complete CV to sales@traxtrader.com or call Allan on 07546303212

The closing date for applications is 31st March

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Features in our May/June edition:

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- CARS / Metals Exhibition Preview
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- RECYCLING - Aggregate recycling.
- BULK HANDLING - Conveyors and elevators, feeders, chutes, valves, hoppers and silos.

Editorial copy deadline 5th May 2018

Advert copy deadline 15th May 2018

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