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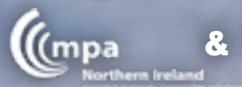
AUG-SEPT 2019

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We live in a world of rapidly advancing technology, and the construction sector is one of the major benefactors. Indeed, a recent report suggested that some 72% of Irish construction companies say new technology has improved their productivity in the industry.

We are fully behind the Construction Industry Federation when it says a tech-enabled construction industry isn't far off in the future. We simply must adopt the technologies of tomorrow, today, to solve the major challenges we face.

And it almost goes without saying that businesses cannot truly survive without a presence on the worldwide web, so it is encouraging to see some of our smaller companies are increasing their online presence. It really does pay dividends.

Never too far away from the headlines, of course, are key issues that include Brexit, and the re-establishing of a Stormont Executive, both of which will have a major impact on our industry; all should become clearer as we head towards autumn. Let's hope the news is positive.

On another subject: recycling continues to play a big role in the construction sector. With the staggering growth and popularity of Plant & Civil Engineer throughout the island of Ireland, and due to repeated calls from many quarters for the magazine to include a waste management and recycling section we have decided to do just that! Previously an integral part of sister magazine Sustainable Ireland, we have now decided to move all related waste management and recycling editorials and advertising to Plant & Civil Engineer with immediate effect, as you will discover in this issue.

We also take a look back at Plantworx 2019, which represents a good reflection of how our industry is performing. The show was 20% larger than the 2017 event and was home to more than 450 exhibitors, and was the biggest Plantworx to date, which says a lot!

Our 'View from the Cab' series takes a look at Wacker Neuson's innovative Dual View truck which has been hailed as one of the safest dumpers on the market, we read how Komatsu's 65PXi Dozer scores top marks, we find out why the Liebherr PR 736 Litronic has been described as a driver friendly, fuel efficient & robust workhorse and we also report on JCB's fully electric mini excavator.

Before we go, we would draw your attention to our forthcoming annual Plant & Civil Engineer Golf Masters at the Faldo Championship course at the Lough Erne Resort; we hope to see you there - and don't forget to enter our 2019 Plant, Construction and Quarry Awards; you'll find all the details on how to do so in this issue.

Well, that's it for now, but do remember, you can keep up to date with what is happening across our industry by logging on to our website at www.plantandcivilengineer.com.

Justin Carrigan General Manager Email: Justin@4squaremedia.net



Belfast Hosts Major International Conference On Digital Construction

Over 400 delegates recently gathered at the Crowne Plaza Belfast for Northern Ireland's largest digital construction conference.

Digital Construction Live, hosted by BIM (Building Information Modelling) Regions NI, is now in its third year and aims to raise awareness of digital construction while celebrating the achievements made within the architecture, engineering and construction (AEC) industry.

The conference, which was hosted by Jon Briggs, a broadcast journalist and the original UK voice of Siri, covered all advancements of digital technologies and BIM (Building Information Modelling) in the AEC industry.

Delegates heard from industry professionals and keynote speakers within the digital construction sector. Topics included digital construction, artificial intelligence, industry 4.0, unmanned aerial vehicles (UAVs), robotics, immersive technologies and BIM.

Leading BIM and digital construction expert, Melanie Dawson, Director of Digital Construction at GRAHAM, and founder member and Chair of BIM Regions NI, said: "There is a digital revolution taking place in construction which is gathering pace as the industry attempts to achieve targets set out in the UK government's Construction 2025



(L-R) Digital Construction Live conference host Jon Briggs, leading BIM and digital construction expert, Melanie Dawson, Director of Digital Construction at GRAHAM, and founder member and Chair of BIM Regions NI; and Barry Neilson, Chief Executive, CITB NI (Construction Industry Training Board), one of the conference's platinum sponsors.

Strategy. Contractors and clients are searching for smarter ways to streamline everyday tasks and are on the lookout for new technological solutions to support digital construction delivery. There is no one particular piece of technology or hardware that the industry needs in order to be innovative. It's much bigger than that. The industry as a whole need to embrace the fourth industrial revolution." Added Jon Briggs: "When you look at the great buildings in the world around you, they are so much more than structures. They are

part of our psyche. They are part of our humanity. The recent destruction

of Notre Dame proved exactly that. But you have to remember that when they were constructing that magnificent building, they did not have the advantage of digital modelling and digital construction techniques.

"Building Information Modelling (BIM) is just one of the ways that automated and converging technology are changing the way we create places from spaces. And if you're not up to speed you're going to get left behind. I am absolutely delighted to yet again host Digital Construction Live in Belfast. It is the premiere event for learning about digital construction techniques and where the technology is right now."

Digital Construction Live 2019 also featured an exhibition, offering delegates the opportunity to meet forward-thinking companies who play a key role in the progression of the architecture, engineering and construction (AEC) sector. Delegates had the chance to see emerging digital technologies in action, trialling the technologies for themselves.

Digital Construction Live 2019 speakers included Melanie Dawson, Director of Digital Construction at GRAHAM and founder member and Chair of BIM Regions NI; Barry Neilson, CITB NI Chief Executive; Lee Mullin, Digital Construction Specialist, EMEA, Autodesk; Richard Kirk, Director, Work+; George Mokhtar, Strategic Director of Digital Asset Advisory at Turner & Townsend; Rob Hine, Head of Trade and Commercial Partnerships, BSI Group and Louise Kelly, UK BIM Alliance Ambassador.



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Headed up by Dessie Middleton, who has a wealth of experience in the industry, West Dove supply construction and agricultural equipment not just to the local market, but much farther afield as it has met the needs of some international customers, too, including the USA.

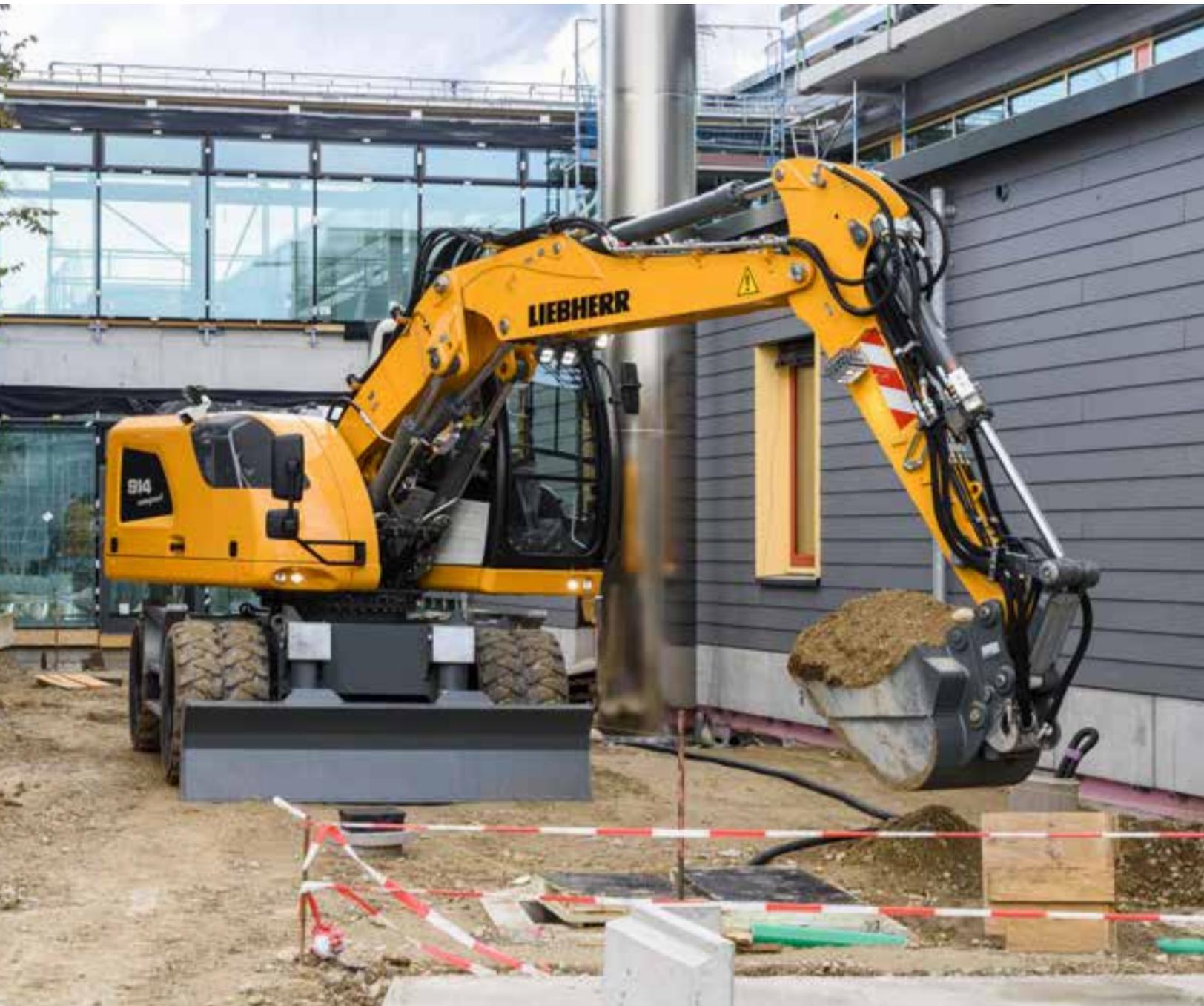
"We offer quality used equipment at great prices," says Dessie. "And if you are looking to sell your used plant machinery, we can help there as well. We have constant requirements for good quality used machinery and offer top prices for the right equipment."

The company is always looking to expand its product offering and has just added rock hammers in the three to five tonne class.

Adds Dessie: "All our used plant and machinery is thoroughly tested and inspected before sale and customers can be confident of a great level of service and after sales support.

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Next steps in extensive Belfast Waterside development get green light

A major new development which could create over 8,000 jobs and provide homes for more than 1,500 residents has been approved by Belfast City Council's Planning Committee.

The full Belfast Waterside scheme – located on the site of the former Sirocco Works – is set to transform the east bank of the city through a mixed use waterfront development made up of offices, apartments and a hotel, together with retail, hospitality and professional service units and community and leisure facilities.

Developers Osborne+Co (Swinford Sirocco Ltd) estimate that, as well as creating 875 full-time jobs during construction, the project, once completed, will have the capacity to support 8,295 full-time equivalent jobs, 6,130 of which will be on site and a further 2,760 through the supply chain, through almost 80,000sqm of office space.

An employability and skills programme, designed to 'skill



up' residents and reflect the jobs delivered through the scheme, will also support the project as part of a Section 76 planning agreement secured by the council.

Proposed residential accommodation – almost 64,000 sqm of the site - will include 675 units for approximately 1,570 residents, up to 20% of which will be affordable housing units, including a minimum of 10% social housing, while a 'creative cluster' building,

facing onto the River Lagan, will include a public square, reflecting the site's industrial heritage and new spaces for community and arts use.

The full framework for the 2.6 hectare site explains how it will be opened up through extensive public realm works, including a new street network and linear park, the removal of existing boundary walls, landscaping, a replacement pedestrian bridge over the River Lagan

and improved access to both Short Strand and Bridge End.

"This is a massive step forward for Belfast, with the potential to create almost 20% of the jobs pledged through the Belfast Agenda, our community plan, as well as providing new space for city centre living, another of our key goals," said Councillor Arder Carson, Chair of the Planning Committee.

"The provision of additional high quality office space in a brand new part of the city centre will be hugely attractive to investors as Belfast continues to grow in stature internationally as a great place to do business.

"I'm also pleased that this project will not only finally transform a site which has been out of use since 1999, but also provide affordable housing units, responding to housing need and ensuring it becomes a place for everyone, with the facilities required to reflect our expected growth in our population by 2035."

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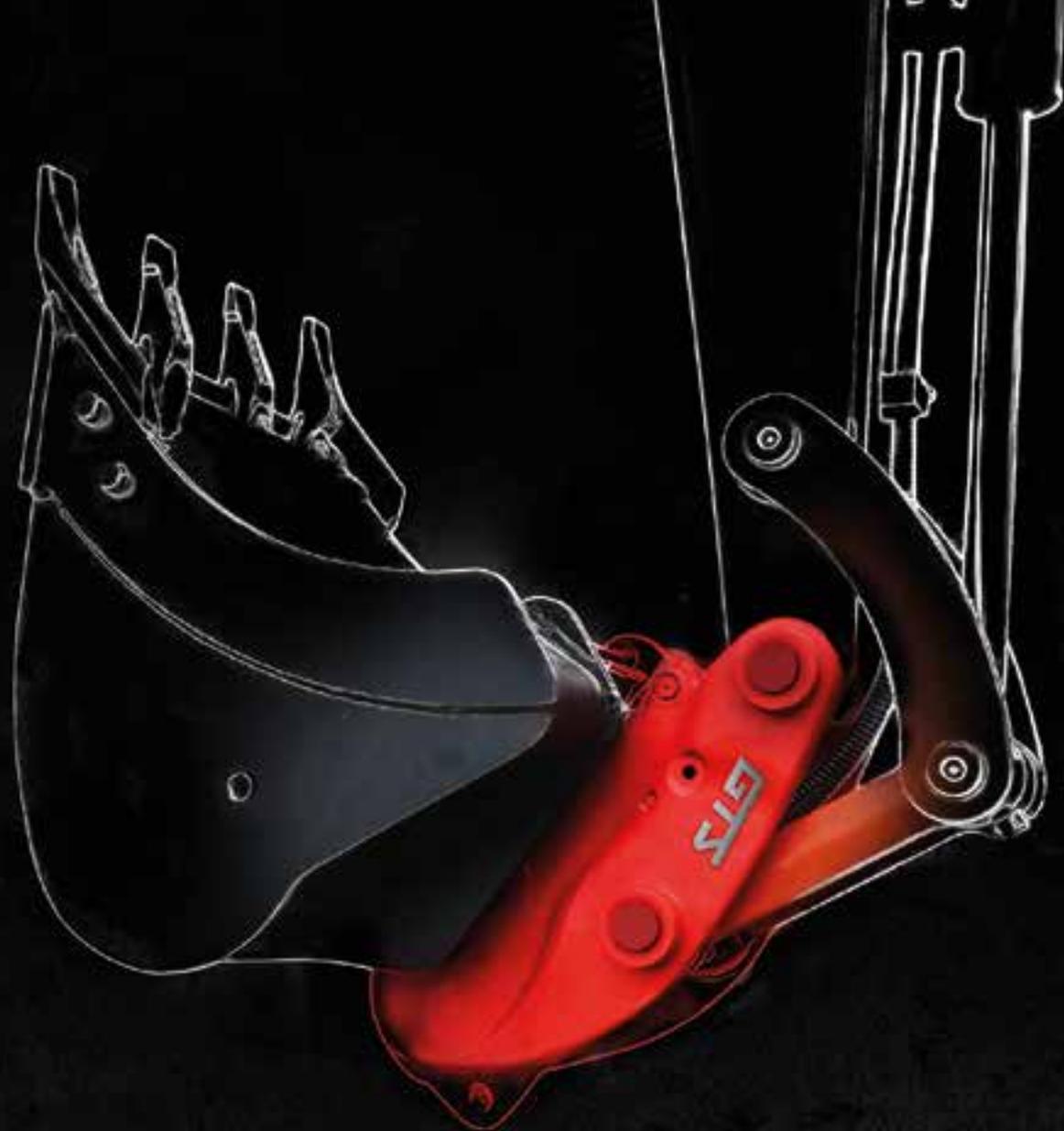
Mecalac wins 'best live demonstration' at Plantworx

Mecalac Construction Equipment UK took home gold for 'best live demonstration' at this year's Plantworx exhibition. Amid some very impressive displays, the company's 11MWR, 6MDX, TLB990 and 6MCR thoroughly impressed judges.

Mecalac presented a number of its latest models at the event, showcasing the characteristic performance, productivity and safety of its compact construction equipment. The company also exhibited a number of new range additions, highlighting innovative new designs and class-leading operator technologies.

Allison Sedgwick, Operational Marketing Manager at Mecalac Construction Equipment UK, commented: "Taking home gold for 'best live demonstration' was testament to the team's hard work and creativity in designing and planning the stand for this year's Plantworx exhibition. The win was made all the more impressive by the other excellent displays we saw over the event's three days.

"Despite the poor weather, there was a great turnout. We debuted a number of new models at the show and received a lot of positive feedback on the new designs and equipment technologies. It was a resounding success and we look forward to doing it all again in 2021."



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GT Series

OHMG Press On With New Lisburn Care Centre



Richard Pengelly, Permanent Secretary for Health with the ceremonial spade at the official sod cutting for the new Lisburn Primary and Community Centre. (L-R) Cathal O'Hare, Project Director; Roisin Coulter, Director of Planning, Performance and Informatics, SEHSCT; Deep Sagar, Chairman of SEHSCT; Eamon O'Hare, Director OHMG; Martin Lennon, Managing Director of OHMG and Neil Guckian, Interim Chief Executive, SEHSCT.

Northern Ireland health service officials have been updated on the progress of the building of new Primary and Community Care Centre in Lisburn by senior directors of the Newry-based construction company, OHMG.

Managing Director Martin Lennon, the Project Director Cathal O'Hare, and another company director Eamon O'Hare OBE met with Deep Sagar, chairman of the South Eastern Health and Social Care Trust at a sod cutting ceremony.

The centre on the site of the Lagan Valley Hospital will improve the patient pathway and provide a one stop location for the health and social care needs for the people of the city and surrounding district.

It will bring together eight GP practices as part of major plans to transform health and care services through greater integration. The contract worth almost £30m was awarded to the consortium, GPG O'Hare.

Work on the 12,792 sqm development which will include a basement carpark is due to be completed by the Spring of 2021 with the doors open to the public by the following Autumn.

Shape of Thwaites to Come

Thwaites has launched its new Super Seven Dumper. With 7 key features, the new 7-tonne machine gives operators greater visibility, stability and ease of use.

Launching the Super Seven Thwaites MD Ian Brown said, "The objective of the Super Seven is to deliver 7 key improvements that will enable enhanced operator visibility and greater stability. Focused on ensuring risk is reduced for both site workers and the operator, whilst increasing payload and productivity."

The machine, designed by the Thwaites Warwickshire based engineering team, who were driven by the vision of improving the operator's ability to be seen, without sacrificing the effectiveness of the dumper's capabilities on site.



FLTA to Stage National Forklift Safety Month

The Fork Lift Truck Association has announced October as this year's National Forklift Safety Month. The theme of the month will be: "Forklift Safety. It's no accident."

In the UK, there are more than 1300 forklift-related accidents each year, which means, on average, 5 accidents every working day. And these aren't just scrapes and scratches, they are life-changing injuries involving crushed bones, amputations and even death.

"The lift truck industry works hard to improve safety, but in order to make a real difference we need to get everyone involved,"

said FLTA Chief Executive Tim Waples. "This is why we created Safety Month."

Since 2008, Safety Month has been the FLTA's annual campaign to help raise awareness of the key issues affecting forklift safety.

But Safety Month isn't just for forklift truck operators — it's for supervisors, managers and safety personnel as well as those on foot who work alongside trucks.

Throughout Safety Month, a range of resources will be available on the FLTA website to help spread the campaign message. These include

safety videos, downloadable posters, benchmarking tools and fact sheets, as well as materials to support inductions, training sessions and toolbox talks.

Additional safety tools and resources will be available throughout the month from the FLTA's Safety Partner Mentor Training.

The FLTA's Store has a range of additional tools to support you, including low-cost employee safety handbooks which spell out the dos and don'ts for anyone working on or in close proximity to forklifts. The highlight of the month will be the National Forklift Safety Convention on Wednesday 30th October.

Tim concluded: "In short, it's about taking up the challenge and using the tools we offer in order to make your site a whole lot safer."

You can visit the FLTA website to find out more and book your place: fork-truck.org.uk

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news

Michelin launches new tyre for earthmovers

Michelin is introducing a completely new generation of tyre for the earthmover market which has been designed to extend tyre life, improve traction and deliver better comfort and stability versus the generation of products they replace.

Optimised for fitment to loaders, graders and articulated dump trucks, the new Michelin Xtra FlexLife range is being

launched in 29.5 R25 and 875/65 R29 sizes for the original equipment and replacement markets, with an additional five sizes set to join the line-up in 2020.

The new tyres get their name thanks to Michelin's flexible design, which allows dealers to stock a single range for use across three vehicle types – with each new tyre replacing two older products.

Their launch sees operators benefit from a tread pattern which evolves with wear, to ensure optimum traction is maintained over a long service life. Uniquely, the look of the new tread pattern was selected following close consultation with 60 major customers from markets around the world.

Annika Girod, Michelin's Segment Manager Off-Highway Transportation North Europe, explains: "The new Xtra FlexLife range will give machinery manufacturers and customers a genuine competitive edge and an impressive new look – with as much as 25 per cent more rubber in the tread to wear down. In testing, we've seen tyre life increased by up to 20 per cent on loaders and 10 per cent on articulated dump trucks, versus our previous generation tyres – and that's just one of the many performance advantages."

Another benefit introduced with the new tyres is greater comfort and stability, thanks to the ability to run the Michelin Xtra FlexLife tyres at reduced pressures versus the products they replace – typically around 14.5psi lower on loaders, and 11psi lower on articulated dump trucks. As well as ensuring a smoother ride for the driver, reduced machine vibration cuts wear and tear on the vehicle and supports a longer life in service – delivering notable efficiency improvements for the operator.

Volvo, one of several manufacturers involved in the design and testing of the Xtra FlexLife, is already offering the new tyres as original equipment.

The five additional sizes due to launch next year include the 23.5 R25, 26.5 R25, 750/65 R29, 775/65 R29 and 20.5 R25.



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SHANNON VALLEY PROGRESSES MAJOR DEMOLITION OF ICONIC DUBLIN LANDMARK

PART 2

When the iconic Clerys building on Dublin's O'Connell Street was built 165 years ago, it was probably meant to last forever, so it is not surprising that 'surrendering' to demolition hasn't come without its challenges.

Over its long lifetime it has seen many changes; its striking façade has been one of the city's most famous landmarks and will remain so for many years to come as it is being meticulously retained. What lies behind it, however, is being transformed to bring it into the 21st Century.

Work on demolishing a huge part of the building has been steadily progressing, with dedicated teams from the Shannon Valley Group, one of the largest Civil Engineering and Demolition contractors in Ireland, completing the second phase of what is a major project.

The first stage of the demolition focused on 'soft stripping' the interior of the building which has lain empty for the past four years; it has been acquired for more than €60m by a European investment group who plan to redevelop the site which borders on Marlborough Street, Sackville Place, North Earl Street and Earl Place.

The Shannon Valley Group, which has undertaken many prestigious schemes down through the past 30 years, moved on to the site several months ago after being appointed by the main contractor Glenbrier Construction to demolish the building.

To date, although complex in nature, and despite the historical significance and sensitivity of the site, all has gone according to plan.

As we reported in our last issue, the soft strip included the removal of all fixtures and fittings, electrical wiring and piping, floor coverings, shelving and other materials from the equivalent of seven acres of floor space. Another major issue was the presence of asbestos, the removal of which necessitated the deployment of a specialist contractor.

Care also had to be taken to ensure anything of architectural interest within the building has been retained so that it can be eventually incorporated into the new development.

Main Demolition

The main demolition phase has focused on a number of areas, including two interconnected warehouses which were connected to the original building across Earl Street by a double storey links bridge. The removal of the link bridge and the warehouses was a major challenge as they included a lot of steel encased in concrete which had to be cut, and because of the close proximity to other buildings, including a couple of 18th century Georgian townhouses, some of the demolition work had to be done by hand.

Also being demolished is a five-storey building where the original Sky Café was situated and which was a 1970's add-on, together with five stair cases and lift shafts including escalators and an infill section below the atrium which existed in the original 1920's scheme, before the additional floor was added. The added roof will also be removed peeling it back to the original roof in the 1920's build.

Currently, the Shannon Valley Group is employing less than 20 men on this

part of the project, but at the peak of the work around 45 were on site, some of them working through the night, using a wide range of equipment – from jack hammers, concrete saws and scaffold towers to excavators, mini diggers and long reach machines.

A by-product of such intense activity, of course, is the dust that is created within the confines of the site, and that was successfully dealt with by the introduction of dust suppression systems.

Tonnes of material have been transported away from the site on a fleet of artics and rigids, a logistical challenge in itself because of the building's city centre location, but despite being at the height of the busy tourist season, there has been little noticeable disruption in the surrounding streets and to nearby businesses, thanks to careful advanced planning, constant monitoring and the implementation of rigorous health and safety measures.

At the time of writing this article, around 230 truckloads of soft strip waste had been removed off site, including 73 loads of timber, 15 loads of plasterboard, more than 100 loads of metal and over 40 loads of mixed waste, and numerous loads of masonry and associated demolition debris.

"We are very happy with the way the project has progressed to date," says Shannon Valley Group director Dermot English. "When we took on this major contract, we knew there would be some challenges to overcome, so we gave it a lot of thought and planned accordingly. All credit to our teams for successfully carrying out the various tasks in the manner that they have thus far."



He adds: "There is still much to do, but we are on course to complete the eight-month long contract within schedule."

The actual redevelopment should be completed by late 2020 and will be called 'Clerys Quarter'. It will include retail space, offices, restaurants, an events venue and a 176-bedroom four-star hotel – and significantly, the building's many historic and architectural features will be restored, including the colonnaded façade, internal staircases, columns and ceilings, the tea rooms and the famous Clerys' clock.

The building phase of the development, which will restore and regenerate one of Dublin's most loved landmarks, is expected to create over 700 construction jobs and once completed should provide over 400 new jobs.



CARE ALSO HAD TO BE TAKEN TO ENSURE ANYTHING OF ARCHITECTURAL INTEREST WITHIN THE BUILDING HAS BEEN RETAINED SO THAT IT CAN BE EVENTUALLY INCORPORATED INTO THE NEW DEVELOPMENT.



'Relationships with Communities' Vital For Plant And Construction Sector

McHale Plant Sales director, Michael McHale, has spoken of the 'very valuable' contribution that companies in the plant and construction sector can make in supporting communities and in fostering positive relationships with young people and those upon whose support and goodwill the industry relies.

Recognising that the construction equipment industry is one that exists and operates within communities, McHale is strongly of the opinion that companies like his own must become even more pro-active

in building positive relationships with the public generally.

Acknowledging the 'tremendous efforts' now being made by local authorities and leading civil works contractors to interact with the public and communicate information on major projects – the recent construction of the Newlands Cross flyover being one noteworthy example – McHale advances the theory that equipment suppliers and distributors, and the many professional firms active in the sector, have a great deal to gain through positive engagement with the public.

How companies might reach out to communities will vary from firm to firm. In the case of McHale Plant Sales, a five-figure sum is allocated annually to youth projects, sponsorship and the support of worthy causes. In addition to its efforts to promote careers and foster apprenticeships in the industry, its wider range of interests typically includes support for youth rugby, soccer, GAA football and hurling, sailing and golf.

"By employing the machines and equipment that our industry produces on major road projects and on large civil works contracts, customers cannot

avoid impacting on the everyday lives of those whose routines may be disturbed by their presence. This underlines the importance of good community relationships," McHale said.

Equally relevant, McHale contends, is the necessity of winning the co-operation and understanding of an increasingly environmentally aware public when it comes to the planning and completion of major works, and the need to build bridges to the younger generation who will be the customers, operators, technicians and employees of the future.

Broader Remit Adds To Growth At McHale Plant Sales



The expansion by McHale Plant Sales into the forestry and waste handling sectors through their appointment as distributors for Komatsu Forest harvesters and forwarders, and Terex Ecotec conveyors and shredding equipment, is proving to be a positive development.

On the Komatsu Forest front, the company is reporting a 'very satisfactory' level of sales with 13 units sold into the market already this year. Of these, Laois-based Camross Transport has taken a 901 harvester unit and a model 835 forwarder.

A similar situation exists in relation to their Terex Ecotec brief, recently extended to include larger machines of up to 36 tonnes with an all-island coverage remit.

Notable in this regard is the cross-benefit McHale brings to its appointment thanks to its role as distributor of Komatsu excavators and Metso crushing equipment – roles that give them a strong profile in the quarrying and aggregates sector.

This was reflected recently in a sale of an 80ft long Terex Ecotec model TSC conveyor to Carlow-based contractor, Hilltop Quarries.



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FIRST SHOWING OF JCB HYDRALOAD HIGHLIGHT ON INTERNATIONAL PRESS DAY



JCB's recent international press event saw the launch of a number of new products, not least the first showing of a totally new Hydralood rotating telescopic handler.

Recognising the growth in popularity of rotating machines with heavier lift capacities across Europe, the company will initially launch the Hydralood 555-210R, offering a maximum lift capacity of 5.5 tonnes and a maximum working height of 20.5m.

Designed to meet the needs of specialist lifting contractors and the rental market, the Hydralood utilises a robust boom construction and a familiar driveline, focusing on reliability, versatility, productivity, ease of use and safety, as a means of delivering improved uptime and increased customer profitability. To ensure that set-up time is minimised, the outriggers have Auto one-touch deployment, stowage and levelling. Competitive lift end cycle times and high auxiliary flow rates for efficient winch work, boost productivity further. With a lower chassis engine layout, the machine offers excellent access and class-leading serviceability.

A low, clean boom design gives excellent all-round visibility, augmented by comprehensive work light options and camera kits, including a boom head camera for precise placement at height.

The machine offers excellent highly competitive load charts. Easily selectable lift end speed profiles and lift envelope limits help the operator to optimise the machine for

specific tasks. A range of specially developed JCB attachments using RFID technology can be identified by the machine, to automatically offer the correct load chart for safe operation.

Site Dumpers

JCB is also introducing front and swivel-tip 3-tonne capacity site dumpers, completing a line-up that runs from 1-tonne high-tip to 9-tonne forward-tip machines and that includes the new 6T Hi Viz model and the 7-tonne Hi Viz, the industry's safest site dumpers.

The 3-tonne models benefit from an easy to operate hydrostatic driveline and use the same all-steel construction as JCB's larger models. A two-year manufacturer's warranty is included as standard, demonstrating JCB's confidence in the build quality and durability of the dumpers.

The 3T-1 FT and 3T-1 ST models feature a dual centre-pin articulation joint, with hydraulic hoses safely routed through the centre. JCB has improved service access on the machines, with a tilting seat base and an opening rear grille putting regular maintenance items within easy reach from ground level.

X Series

Also new from JCB are three X Series excavators in the 13-16 tonne sector aimed

squarely at ground working specialists - the eagerly anticipated 131X, 140X and 150X. These brand new X Series excavators are just going into production and join the 210X and 220X launched last year and like their stablemates they are more productive, quieter and more comfortable.

The 131X, 140X and 150X excavators are direct replacements for the popular JS131, JS130 and JS145.

At 2.5 metres wide, the new models are 80mm wider allowing the installation of the much larger CommandPlus cab seen on the 220X, giving the operator an environment which is incredibly spacious and very comfortable. The cab - which is located on four hydraulic cab mounts - is 15% larger, incorporating the ROPS frame within its structure and it has easily replaceable flat glazing all round. In cab noise is reduced by up to an incredible 68% compared to the previous JS130 and JS145 - 5dB(A) lower at 67dB(A).

Hydradig Upgrades

Meanwhile, JCB has enhanced the cab of the innovative Hydradig 110W wheeled tool carrier. The front of the cab has been redesigned, with a 106mm increase in the windscreen top line, changing the split between upper and lower screens to a 63/37 split. This offers improved forward



IMPROVED FORWARD VISIBILITY, REFLECTING THE WIDE RANGE OF ATTACHMENTS THAT CUSTOMERS ARE USING WITH THE HYDRADIG AND THE VARIED APPLICATIONS



visibility, reflecting the wide range of attachments that customers are using with the Hydradig and the varied applications in which the machines are being used.

While moving the split line, JCB has also changed the front screen from curved to flat glazing, reducing replacement cost for customers. The front wiper motor is relocated to the bottom rail of the windscreen, for improved visibility when roading and to provide an increased wiper sweep across the glass. A second wiper arm can now be ordered as an option, to cover the lower glazed panel.

As part of the cab improvement, JCB has introduced a cab door with standard sliding window, for improved ventilation and to allow communication with workers at ground level.

Electric Teletruk

JCB is also making a huge technological leap forward with its innovative Teletruk range with the launch of an electric model - the brand new JCB 30-19E, the first electric powered model in its range - opening up new opportunities for a machine which has revolutionised operations in builders' merchants, ports, recycling centres and industrial facilities around the world.

Until now JCB's Teletruks have been powered by diesel and LPG and used predominantly in outdoor applications. With the launch of the new electric model, the Teletruk now becomes suited for a wealth of tasks inside buildings as well as outside - offering a new generation of customers the cost and space saving advantages enjoyed by users over the past two decades.

Already in operation at countless supply chain and manufacturing facilities across the world, the Teletruk is the ideal choice of lift truck at sites where containers, curtainsided trailers, vans and other delivery vehicles have to be loaded and unloaded quickly, safely and efficiently.

Because it is battery-powered, the JCB 30-19E is supremely quiet and produces zero emissions - making it suited to tasks inside a building, while its fully

sealed, weather-proof body protects the machine's driveline and other key components from the elements when the Teletruk is required to work in the yard.

Highways Master

JCB also plans to introduce a 3CX Compact Highways Master - a one machine solution for roads and highways maintenance. The brand new model has been designed to specifically meet the needs of highway contractors, local councils and rental businesses.

Based on the popular 3CX Compact backhoe loader, the Highways Master will be equipped with a skid steer loader quick hitch on the front loader arms and a SMART attachment integration system, to make it easy to carry out a range of tasks with buckets and a wide variety of specialist attachments. The SMART system allows automatic switchover of the machine's electronics, to suit some third-party attachment operating systems, for maximum versatility.

The increased adaptability has been matched by enhanced hydraulic power, as the front loader auxiliary lines now deliver 120 litres/min of high flow hydraulic power, up from 70 litres/min on the standard 3CX Compact, to operate larger 600mm road planer attachments. This allows the machine to be used for larger resurfacing works, replacing stand alone, dedicated 0.35-0.5m road planing equipment and other equipment.

New Rollers

JCB has also unveiled the new CT160 and CT260 tandem vibratory rollers, designed to simplify operation and maintenance. Both rollers come in two drum sizes, with the CT160 offered in 800mm and 1,000mm drum widths and the CT260 available in 1,000mm and 1,200mm widths. Built for both asphalt and base layer compaction, the rollers feature a completely new hourglass design, that delivers excellent visibility to both sides of the drums. The articulated chassis also offers access to the driver's seat from either side, with integrated grab handles and an obstruction-free floor providing plenty of space for taller operators.

A single responsive drive lever allows smooth operation and there are three switchable vibration settings - for both, or independent front or rear, drums. Automatic Vibration Control is standard, while an easy to adjust off-set facility increases versatility, making it easier to work around raised ironwork and kerbs.

Fleet Technology

JCB is taking innovation to revolutionary new levels with the launch of two technology products which enable fleet owners and machine operators to reduce downtime, increase revenue and improve safety.

Developed in collaboration with major hire companies, fleet managers and owner operators, the JCB Operator app and LiveLink Fleet website portal use technology to overcome a host of construction site issues - all at the click of a button.

The JCB Operator app is available to all machine operators on iPhone and iPad devices with Android availability set to follow later this year. The app addresses common issues seen on construction sites across the world today.

Paper-based machine checks are a mandatory safety requirement on many sites, yet they are often illegible, submitted late, easily damaged or not thoroughly completed. JCB has addressed this by making the machine checks process electronic through the JCB Operator app.

The all-new LiveLink Fleet portal, meanwhile, is designed to allow the user to quickly see the current status and required actions of their machine fleet. It is targeted specifically at owner operators, fleet managers and rental companies to provide as a value-added offering to the rental customer.

LiveLink Fleet takes the headache out of managing multiple brand machine fleets, allowing customers to collate and make sense of data in a single place by integrating external telematics data feeds from other equipment manufacturers and aftermarket telematics providers.

Wills Bros Adds To Fleet With Komatsu Dump Trucks Purchase

Evidence of the demand for their services that civil works contractors are currently experiencing can be seen in the decision by Foxford-based Wills Bros to invest in the addition of five Komatsu HM400 - 5 articulated dump trucks.

With a number of major contracts in the course of completion – the Bandon flood relief scheme being one – and a number of high-profile others shortly to come on stream, Wills Bros occupies an impressive position amongst the leading names in the Irish civil works and construction sectors.

The new HM400 dump trucks – which will go into service on contract at an open cast mine near Carrickmacross – have a maximum payload of 40-tonnes, an operating weight of 35-75.1-tonnes, are driven by a powerful 353/473kW/HP EU Stage V engine with an over-the-ground speed of 56-km/h.

Standard is Komatsu's unique Traction Control System which works fully automatically to give traction and superior steering performance in all ground conditions. At Carrickmacross, they will be put to use stripping out over burden and transporting it for use as back-fill elsewhere within the mine complex.

Said by Komatsu to be a 'perfect choice for any jobsite, in any conditions', this powerful and environmentally friendly dumper is praised for its first-class comfort, efficiency, safety and ease of maintenance.

John O'Brien, sales director with Komatsu distributor McHale Plant Sales said: "Knowing the focus Wills Bros places on machine care and maintenance, these new units constitute a shrewd and valuable long-term investment that will underpin the company's growth and serve its needs extremely well for many years to come."



Pictured taking delivery of the new dump trucks is James Wills of Wills Bros (centre) with McHale Plant Sales directors Michael McHale and John O'Brien.

Engineering Construction industry levy set to rise to meet demand for training

A new strategy to help steer engineering construction companies through a critical time for the industry has been launched by government skills body, the ECITB.

The strategy identifies the need to replace an ageing workforce and harness technological change as critical challenges for the engineering construction industry up to 2022 and beyond. Over the three-year life of the strategy, £600bn-worth of infrastructure projects across the UK will get underway and are set

to complete, creating huge demand for skilled employees and for relevant skills training.

The ECITB, which is funded by a levy on industry and supports training courses through a system of funding grants, has spent the past six months consulting with employers and listening to their skills needs both now and in the future. The new three-year strategy pledges to meet current skills needs, committing 70% of expenditure to support current training and 30% to ensure industry has the skills it needs for tomorrow, pledging to invest

in technology and innovation as well as recruiting new entrants.

Lynda Armstrong, Chair of the ECITB, said: "The engineering construction industry is at a critical juncture. While profit margins are tight in many sectors we are seeing signs of recovery. But with major new infrastructure projects underway and scheduled for the future, it is crucial industry has the skilled people it needs.

"Unless we prepare for the future by embracing new technology and recruiting new starters to replace our ageing workforce UK Plc

will struggle to deliver these projects safely and efficiently.

"Levy rates dropped temporarily at the last review in 2016, however the fall in levy income combined with the continued demand for training means that we face a shortfall of £6m. To support productivity and demand for training we know we must restore the Levy to its former level.

I am confident our proposals will help employers meet their current and future skills needs and look forward to engaging with levy payers over the coming months."

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demo day

HIDROMEK RANGE ON DISPLAY AT BUNTON DEMO DAY

A very successful demo day was recently held by R Bunton to give potential customers the opportunity to operate the Hidromek machinery range in a working environment.

There were two live demonstration areas. One was the loading and excavating of tarmac scalpings in Bunton's yard and the second was working in a disused quarry in the field adjacent

to the dealership's premises, where the material was a little harder.

With a mixture of both new machines of the latest model and some used demonstration machines that have 1,000 working hours plus on the clock, it was a good opportunity for the customers to see the condition of the machine after they have worked, both mechanically

with respect to there being no wear on the pins, brushes and running gear as well as the quality of the paintwork.

The older Gen series model are fitted with Tier 3B non-adblue engines whilst the latest H4 model machines that have been released this year have the Tier 4 adblue engines.

On the day, invited visitors came from the local area as well as from much farther afield including Northumberland and Surrey.

Commented Rob Hall, Plant Director, R Bunton Ltd: "The day was a good opportunity to meet existing and potential customers and get some direct and honest feedback from them on the product, as well as an excellent opportunity to socialise with them."

There was some fantastic support from the other Hidromek UK dealerships,



THE OLDER GEN SERIES MODEL ARE FITTED WITH TIER 3B NON-ADBLUE ENGINES WHILST THE LATEST H4 MODEL MACHINES THAT HAVE BEEN RELEASED THIS YEAR HAVE THE TIER 4 ADBLUE ENGINES.



with Colin Moss from TJC travelling up from Leighton Buzzard and Gareth, Peter and Kyle McLaughlin from Kattrak International travelling down from Scotland.

"We received feedback from the clients that attended to try and find out what factors they consider when buying new equipment, this included quality of the product, price, warranty and after-sales support.

"On the day we had some of Bunton's operators with the machines in the demo areas so that they could highlight the controls and features of the Hidromek machines from an operator's perspective. We also had present the sales team, technical support and the company directors."

"R Bunton are currently working on some quotations and are close to finalising some deals as an outcome of the day – and they will be making this an annual event!

Hidromek machines present at the demo day:

- Hidromek HMK140LC-3B
- Hidromek HMK145LC-4SR
- Hidromek HMK300LC-4
- Hidromek HMK220LC-4
- Hidromek HMK220LC-3B
- Hidromek HMK102B Supra (tier 4 - excavator control)
- Hidromek HMK102B Alpha (tier 4 – stick machine)
- Hidromek 640WL wheeled loading shovel



New Expanded Telehandler Range from Bobcat



With the inclusion of the latest high performance 8 m TL43.80HF and 7 m TL30.70 telehandlers, Bobcat now offers a choice of 13 rigid frame telehandler models for applications in construction, rental, recycling, waste and general industry, covering maximum lifting capacities between 2.6 and 4.3 tonne with lifting heights from 6 to 18 m.

The new TL43.80HF increases the lift capacity in the Bobcat range to 4.3 tonne, combining this with a maximum lift height of almost 8 m. The TL43.80HF is a compact telehandler offering an impressive package, which brings together high productivity, robustness and rough terrain ability in the same machine. It provides a new solution for heavy lift handling applications found in general industry, manufacturing, building materials,

warehousing, quarrying and mining. The TL43.80HF is also ideal for farming work.

The very high stability of the TL43.80HF is due to the box welded frame, the low load centre, the long wheel base and the new massive rear counterweight, allowing Bobcat to minimize the overall dimensions of the machine, resulting in a width of only 2.30 m and a length of less than 5m from the rear to the fork face. Together with a short turning radius of just 3.71m, this new Bobcat telehandler is a very manoeuvrable machine, a particularly useful feature when it comes to working in confined environments.

Meanwhile, the TL30.70 provides a maximum lift capacity of 3 tonne and a maximum lift height of nearly 7m, for a wide range of applications in construction/rental/recycling/waste/general industry. The compact width of 2.1 m in the TL30.70 ensures it provides a cost effective format in the 7m class. The compactness and stability of the TL30.70 makes this machine a perfect tool for easy pick and go or for lifting materials to height on housing and commercial property developments.

The TL30.70 offers an excellent compact and cost-effective alternative to larger m models, especially where working spaces are tight and increased manoeuvrability is required. In addition, performance is not compromised as the TL30.70 offers an outstanding maximum reach of 4m with a load of more than 1 tonne. At the maximum lift height, users can lift up to 2 tonne of weight, which is sufficient to place a pallet of heavy bricks in most conditions.

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- 100% increase in tonnage output

D'Arcy Sands in Wexford needed a more efficient solution to help them deliver the high-spec sand needed for some of the most prestigious sporting venues in the UK and Ireland. By installing a transformative solution from CDE, they dramatically reduced the loss of valuable materials to ponds and excess moisture from their final products.

Our energy-efficient solution is guaranteed to maximise productivity whilst recycling up to 90% of water used in the process. Our new approach to sand washing takes away the age-old challenges of traditional methods by eliminating the loss of fines and delivering significant savings on the management of ponds.

Customised to your requirements, our modular wet processing solutions deliver maximum yield, optimal cut point efficiency, and a fast return on your investment.

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CDE

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in profile

NEW CDE PLANT RESULTS IN 100% INCREASE IN PRODUCTION FOR D'ARCY SANDS

At its Wexford site, near the village of Blackwater, D'Arcy Sands was facing a combination of site-specific challenges, namely water supply and reliance on a traditional bucket wheel classifying system. It recently partnered with industry-leading wet processing equipment manufacturer CDE to commission a new wet processing plant which was showcased at a recent Open Day event in June.

With operations in counties Wexford and Wicklow, the company, owned by father and son business duo Anthony and Tony D'Arcy, has been producing high quality building materials and sports sands for over 25 years.

The company specialises in the production of quality graded sands for a range of sports, including outdoor, synthetic and all-weather sports pitches; sands for golf courses, including bunkers and top dressing for greens and fairways; and its silica sands are also used widely in equestrian sports for training surfaces and racetracks.

Over the years, D'Arcy Sands has worked with clients throughout the UK and Ireland, supplying sands for

major projects and events including the Dubai Duty Free Irish Open, Croke Park, Thomond Park, Curragh Racecourse, and Adare Manor Hotel Resort. Recently, the company secured a contract to supply its sands to the Aviva Stadium.

The Challenge

D'Arcy Sands produces high-spec sports sands for some of the most prestigious venues and events in the UK and Ireland. It's therefore important that the quality and prestige of these projects is reflected in the standard of its product.

Until its new CDE plant was commissioned, D'Arcy Sands had been using a tracked rinser and traditional bucket wheel system for sand classification and dewatering.

An upgrade of the existing bucket wheel system was required to tackle the loss of valuable materials to ponds and excess moisture in the final products.

Water availability proved to be another significant challenge at the company's Wexford site. So much so that it was transporting its sports

sand more than nine miles to a separate site with sufficient water supply.

As well as water management, Tony D'Arcy, Manager at D'Arcy Sands, said energy efficiency was another important consideration. "The plant we had been operating was powered by a diesel hydraulic system, so there existed the potential for spillages that could contaminate our much sought-after sports sands. We work with world-class venues and arenas, so we wanted to take preventative measures and put in place a system that would remove the risk of product being rejected or returned."

Perfect partnership

Garry Stewart, Area Business Development Manager at CDE, explained how the new plant was developed using CDE's co-creation approach.

"Our engineers worked closely with Tony and the team at D'Arcy Sands throughout the design and commissioning process to better understand what the company wanted to achieve by upgrading its plant and to outline any key site challenges they were facing.



(L-R) Enda Ivanoff, Group Business Development Director at CDE and Tony D'Arcy, Director at D'Arcy Sands, at the official opening of the new D'Arcy Sands wet processing plant.

The new wet processing plant at the D'Arcy Sands site.



CDE'S M2500 FULLY INTEGRATED MODULAR WASHING PLANT COMBINES FEEDING, SCREENING, SAND WASHING AND STOCKPILING INTO ONE COMPACT AND MOBILE CHASSIS



"Completed over several site visits and through a series of collaborative design workshops, we designed a bespoke plant specific to D'Arcy Sands to support the company to scale its operations and extract maximum value from the material being processed."

Tony said: "We wanted to partner with a company that could help us realise our growth ambitions by designing a solution that supported our objectives in the most sustainable and economic way possible. Plant build quality coupled the technical know-how and the expertise of its engineers proved CDE was the ideal fit to deliver on our aims."

The Solution

After careful consideration of the site and customer's requirements, CDE presented a custom-built plant featuring the electric-powered M2500 E4 washing plant with integrated hopper, feed conveyor and twin-deck Infinity P2-75 screen. The plant also includes an integrated water management system comprising the A200 AquaCycle thickener, FlocStation poly dosing plant and AquaStore water tank.

CDE's M2500 fully integrated modular washing plant combines feeding, screening, sand washing and stockpiling into one compact and mobile chassis. The E4 model would allow D'Arcy Sands to produce up to four commercial grade washed sand and aggregate products simultaneously. Importantly for D'Arcy Sands, the M2500 is a maintenance-free and energy efficient all-electric drive operation. Unlike its former diesel hydraulic system, this eliminates the possibility of product becoming contaminated by spillages.

To improve the efficiency of the company's day-to-day operations, the new plant incorporates CDE's cutting-edge water management system, the AquaCycle thickener.

The Results

"Output is up by over 100 per cent," Tony said. "We're now processing up to 80 tonnes per hour of feed and extracting over 40 tonnes of our quality graded sports sands. Greater control of fines separation using cyclone technology, which is a new development for

our operation, has added more value to our products and is driving significant demand. "The feedback we have been getting from our customers and in particular the greens keepers who use our sand daily has been excellent with numerous positive comments on the quality, percolation and workability of the sand. Importantly for us, the new system allows us to wash material at our Blackwater site when previously we had to transport it off-site, almost ten miles, to a location with a better water supply."

Miller Launch Its Innovative GT Series

Earthmoving attachments manufacturer, Miller UK, recent showcased its latest in quick coupler innovation - the GT Series - at Plantworx.

Miller's latest series of fully hydraulic quick couplers suitable for excavators from 1-50 tonne allows operators of all sizes of excavators to switch seamlessly between attachments.

Miller's philosophy is to always try to ensure that their customers have the most advanced attachment products in the market and the latest Miller quick coupler range is testament to this.

The Miller GT Series heralds a new era of unrivalled power and cutting-edge intelligent coupler technology increasing job site safety, machine versatility and productivity.

The latest Miller GT coupler delivers the safest, lightest, lowest, yet strongest class leading quick coupler in the



marketplace. Easy to operate and far lighter and stronger than any other quick hitch coupler, this attachment optimises the

machines' performance. Miller GT series also offers an ISO 13031 compliant novel locking system, designed to ensure that the

widest set of OEM pin pickups are safely attached all from the comfort and security of your cab.

The innovative 'Ground Touch (GT)' quick coupler series features a revolutionary intelligent coupler sensor connect system, which will only allow attachment change process to commence when the attachment is safely placed on the ground, and not for the first time sees Miller leading the way in going above and beyond legislative requirements.

Barry Robison, Miller UK's marketing manager said, "The new GT series is set to bring innovation to the excavator industry like never before. We strongly believe that coupler technology has a key role to play in improving the operator experience; making on-site operations safer, more convenient and capable of withstanding the most challenging working environments."

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As one of Ireland's leading suppliers of powered access and material handling equipment, Access Platform Sales (APS Ireland) offers a comprehensive product range, with both new and approved used machines from some of the world's top manufacturers.

As the official sole distributor of **Hinowa**, **BoSS** & **Mace** products throughout Ireland, APS Ireland has many years of experience in offering the most cost-effective solution to working on site and at height.

The company prides itself on giving an honest and detailed assessment of customer's needs with an unrivalled aftersales support service and backup.

If APS Ireland don't have the right equipment on hand, they will quickly source it for you – but more than that: because they have strong relationships with both manufacturers and suppliers their prices are highly competitive.

A comprehensive and varied range of equipment is always in stock allowing customers to have what they want when they want it. It's all down to the customer's choice and all equipment can either be collected or delivered directly from stock depending on the customer's requirements-

APS Ireland is headed up by Ronan Cotter and Trevor Lambe, who both have years of experience in the industry. They are the only Irish distributor for leading brands such as Hinowa, Mace Industries and the Youngman BoSS X Series, as well as a supplier of Genie scissor and Material lifts.

After Sales Support

APS Ireland pride themselves on the after sales and technical support they provide, as much as the product range they offer. You can rest assured that when buying from APS, you will have a parts and after-sales service which is unrivalled in Ireland.



Ronan Cotter & Trevor Lambe.

According to APS Ireland's Ronan Cotter, "When investing in equipment from us, you can be confident that there is no better support network anywhere in the country. Our qualified mobile engineers provide a rapid response breakdown service nationwide. We work with our customers to find the right aftercare package to suit their business and budget...and keep the equipment performing year after year."

Replacement Parts

Sourcing the right part for your equipment will not be a problem, as APS's specialist

sister company IPS Ireland stocks over 5000 replacement parts for a range of access platform and lifting equipment.

They offer a fast & efficient next day delivery throughout Ireland and cover all major brands like Genie, Hinowa, Snorkel, JLG, Pop-Up, Haulotte, Manitou and many more.

Finance

APS Ireland will go that extra mile by working closely with some of the leading finance providers, who can help you organise the most suitable funding option for you with minimum hassle.



LET'S TAKE A LOOK AT SOME OF THE PRODUCTS ON OFFER:



(TRACKED SPIDER LIFTS)

Hinowa is the global market leader in tracked spider lifts. These are ideal for a range of indoor and outdoor applications as they are lightweight and perfect for narrow or restricted access; they are also great on uneven or soft ground.



(TRACKED DUMPERS)

Hinowa's tracked mini-dumpers and forklifts, are designed for working all year-round. They offer enhanced traction for travel on difficult or sensitive ground conditions, with a choice of power options and lifting mechanisms - they make light work of any site environment.



(CONVEYORS & MATERIAL HANDLING)

Portable Conveyors from Mace Industries - home of Bumpa and Shifta, the UK and Ireland's most popular Portable Conveyors - they are designed to assist in every aspect of material movement, increasing productivity and reducing the labour costs.



(POWERED ACCESS & MATERIAL LIFTS)

APS Ireland also supply Genie's complete lifting range, including personnel lifts, material lifts, & electric scissors.



(MICRO SCISSOR LIFTS)

BoSS X series micro-scissor lifts are leaders in low level access, improving safety & productivity compared to podiums and ladders. Lightweight and compact, they pass easily through doorways and can travel in elevators.



A COMPREHENSIVE AND VARIED RANGE OF EQUIPMENT IS ALWAYS IN STOCK ALLOWING CUSTOMERS TO HAVE WHAT THEY WANT WHEN THEY WANT IT.



JCB Finance Celebrate Industry Award

JCB Finance is celebrating after award success at a ceremony with finance industry leaders at the International Asset Finance Network (IAFN) Awards 2019, held in London.

Selected as the UK and Europe Captive Finance Lessor of the Year, JCB Finance, the in-house financier for equipment manufacturer JCB was praised for its committed service to the JCB dealer network and customers alike.

JCB Finance provide hire purchase and leasing options at the point of sale of a new or used JCB within construction, agriculture and industry and have done so for almost 50 years. This service is facilitated in the UK through a growing team of Field Managers and a further team of Head Office based Relationship Managers offering



Paul Jennings, Managing Director, JCB

immediate solutions to customers on the telephone, email or via their online portal.

The UK asset finance market (predominantly hire purchase and leasing) has had a strong start to the year, according to figures published by the Finance and Leasing Association. In recent years the market

has seen a significant increase in credit providers and the emergence of challenger banks and fintechs has offered a new dynamic but as a long standing provider, JCB Finance ensures that the customer must always come first and centre of strategy:

Paul Jennings, Managing Director said: "Knowing the customer, understanding their individual business needs and wants, understanding our sector; past, present and future is vital. We must not lose sight of this and continue to invest in our relationships with customers, less dedicated strategies are not usually sustainable and do not act in the long-term interests of customers. Winning this award is both an honour and a privilege and provides a wonderful tribute to the hard-working and enthusiastic team at JCB Finance and a sign of our long-term commitment to the customers we serve."

Irish construction companies say new technology is improving productivity

Some 72% of Irish construction companies say new technology has improved their productivity in the industry, according to a recent Construction Industry Federation (CIF) survey.

The CIF survey found that 54% of construction companies have invested in new technologies over the past 12 months, with 62% stating that Building Information Modelling (BIM) technology would be important to their business in the future.

When asked if robotics or AI could potentially reduce the number of construction workers on site, 56% of Irish

construction firms said yes, showing a close 50/50 split, and an optimism that advancement in technology does not necessarily mean a loss of jobs for the construction industry.

Further CIF research has shown that young people are not entering the industry with around 40% of parents stating that they would not support their child's decision to work in construction. With the industry reporting acute skills shortages in certain areas, construction technology will play a significant role in ensuring the industry can deliver critical housing and infrastructure in the coming decades.

These results come after a recent CIF report on productivity, which showed that there was a 20% increase in investment in building and construction in 2018, with €26 billion invested during the year.

With 62% of respondents planning to invest in new construction technology in the future, it is clear that improving productivity through technology will be an important part of the future with construction.

Tom Parlon, CIF Director General, said: "The future of construction is digital. It will improve productivity, AI can reduce workplace accidents,

foster collaboration that makes us more efficient.

People may be concerned about automation replacing workers, but construction technology will also future-proof jobs and enable radically new high-end careers.

"By supporting our workforce and embracing technology our construction workers can stay relevant and develop rewarding careers.

"A tech-enabled construction industry isn't far off in the future. We simply must adopt the technologies of tomorrow, today, to solve the major challenges we face."



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view from the cab

WACKER NEUSON'S DUAL VIEW DUMPER MAKES BIG IMPRESSION

Wacker Neuson's innovative Dual View truck has been hailed as one of the safest dumpers on the market, and not without reason, as Plant & Civil Engineer's David Stokes reports. He's been getting the 'view from the cab' of a DV100 recently acquired by contractors O'Neill of Clonoe Ltd from dealers Glendun Plant and currently working on a project in Newtownabbey.

Based just outside Dungannon in County Tyrone, O'Neill of Clonoe Ltd has been carrying out construction and civil engineering projects for both the public and private sectors across the island of Ireland since 1976.

Operating in the commercial, residential and educational sectors, this third generation family business is renowned for its personal hands on style, quality

and professionalism and its endeavours to exceed client expectations.

According to Stephen O'Neill, whose father and grandfather established the business all those years ago, investing in the Wacker Neuson DV100 was not a difficult decision, after having viewed it at Glendun Plant's depot in Dungannon.

"Seeing how it has been performing on site, one wonders why manufacturers haven't produced such a machine years ago; it is so safe, so practical and so efficient. Buying it was really a no brainer," says Stephen. "We had dealt with Glendun Plant in the past and have always found their aftersales service and support to be first class.

"We already had a 9 tonne Wacker Neuson cabled dumper, so we knew how tough and reliable the brand was,

BENEFITS AT A GLANCE

- High driving position, high working position
- Twin speed hydrostatic drive
- Air conditioning fitted as standard
- Green safety seat belt beacon
- Radio as standard
- More ease of use thanks to the ergonomic rotary console
- Comfortable cabin

and that gave us the confidence to invest in the new machine. We were always going to opt for another cabled dumper, not least because of the changeable weather we have in this part of the world.

"Our operators love the DV100. It takes a few hours to get used to the controls, but once you do so, it becomes second nature. The cab cannot be faulted. It has everything you need to create a comfortable and extremely safe working environment."

New Standards

So, let's take a closer look at what attracted the contractors to the four-wheel drive DV100, which really does set new standards in terms of operator and construction site safety, flexibility and economic efficiency.

The Dual View concept allows a comfortable and quick change of the seat position through a 180° turn of the entire operating and seat console. In this way, the operator always has a perfect view in the direction of travel - during transportation, loading and unloading. The rotation can be performed conveniently



view from the cab



from the driver's seat by simply unlocking the seat console and turning it around.

Because this optimises the line-of-sight both in the main direction of travel as well as in the working area facing the skip, the operator can always keep an eye on the work environment - and that means significantly more safety, not just for the driver but more especially for those working alongside the dumper. Even a fully loaded skip no longer obstructs the view, because the driver leaves the skip behind him as with a truck.

Comfort cab

As Stephen pointed out to us, the cab of the DV100 Dual View provides plenty of head and legroom and is equipped with heating as standard; air conditioning is optionally available. This enables the operator to work under ideal temperature conditions in summer as well as in winter.

Other features include:

Joystick handle with direction change switch and dump operation, so one hand can always stay on the steering wheel
Multifunction display for machine functions

Standard rear-view camera monitor, so you can always see the skip in any seating position
Steering column with tilt adjustment simplifies safe entry and exit
Ball bearing slewing ring for quick change of the seat position

The cab of the DV100, which is powered by a 75hp water cooled DUETZ TD 2.9, four cylinder diesel engine, also has plenty of storage space, including a lockable documents box at the driver seat, while visibility is further enhanced by well positioned lights and mirrors to the left, right and front; there's also a reversing alarm for added safety on site - and with hydrostatic drive, the dumper stops as soon as the operator takes his foot off the accelerator pedal; he can also fully focus on the job without having to make frequent gear changes.

Although primarily designed for off-road work, the DV100 travels and handles equally as well on the open road, with a top speed of 30 kph, making moving from site to site so quick and easy.



INNOVATENI APPOINTED DEALER/SERVICE PARTNER FOR STEELWRIST PRODUCTS

Steelwrist UK have appointed InnovateNI as Dealer/Service provider for all Steelwrist products for "N.Ireland & Ireland".

Headed up by Martin Graham, InnovateNI's experience with Leica Geosystems machine control has been described as the perfect match for Steelwrist's continued expansion and increased level of customer support.

"It's an ideal fit," says Martin. "The partnership will clearly enhance both businesses."

Steelwrist already work closely with the likes of Leica Geosystems, Topcon and Trimble, so there is a synergy there and more often than not if someone is looking to buy a tiltrotator they will also want the machine control system fitted at the same time.

Comments Martin: "I pride myself on three things - customer satisfaction, innovation and industry development. Our customers are the lifeblood of this business and as our name suggests, we need to seek out new exciting markets and be innovative in a manner that allows us to enter these. Without



Martin Graham (Innovate NI) with Pat Bullcock of Steelwrist.

continuous development our industry will never grow, it's an industry I support fully."

InnovateNI have been supplying the needs of contractors and surveyors in Northern Ireland, Ireland and Great Britain since 2012. Seamless integration of Geomatic Solutions, Construction Tools, and Machine Control, accompanied with advanced computer

technology, enables Innovate NI to bring a new level of innovation to the architectural, engineering and construction community.

"No matter your requirements, or the task at hand, we have the solution to get your job done," says Martin, who was recognised for his achievements at the annual 2018 Plant & Civil Engineer magazine Awards, being presented with the prestigious 'High Achiever of the Year' award.

Steelwrist, of course, is today regarded as one of the fastest growing manufacturers of its kind in the world, providing tiltrotators, quick couplers, accessories and attachments for excavators and backhoe loaders.

Its determined focus on robust and modern products, combined with fast service has been appreciated by an increasing number of customers.

Its three core values, together with its quality and environment policies, demonstrate how it works with customers, dealers, suppliers and employees, making it a perfect partner for InnovateNI.



INNOVATENI'S EXPERIENCE WITH LEICA GEOSYSTEMS MACHINE CONTROL HAS BEEN DESCRIBED AS THE PERFECT MATCH FOR STEELWRIST'S CONTINUED EXPANSION AND INCREASED LEVEL OF CUSTOMER SUPPORT.



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**FROM THE DESK OF:
GORDON BEST, REGIONAL DIRECTOR, MPANI**



Gordon Best, MPANI

AGGREGATES LEVY REVIEW GROUP SUBMISSION

The work of the Aggregates Levy Review Group has now concluded its work and submissions have been made to HM Treasury as part of the wider consultation on the Aggregates Review.

MPANI has been a key contributor to the review and as mentioned in the last edition of Plant & Civil Engineer, we facilitated a visit by HM Treasury and HMRC Officials from London to visit local Members in Fermanagh, Tyrone and Co Antrim.

In our submission we ask for:

1. A clear recognition by Government that any new Aggregates Levy structure needs to take account of the unique circumstances the 300 mile land border with the ROI and the significant difference in aggregate market prices creates in Northern Ireland.
2. Government could significantly reduce the aggregates levy and replace the shortfall in revenue with some other tax raising scheme that will also address environmental challenges, for example a pesticides tax.
3. We would call for a new assessment of the environmental costs of aggregates extraction as we believe, given the massive investment that has been made in reducing the industry's environmental footprint, maximising recycling volumes and improving our energy efficiency, this cost has reduced significantly.
4. Increase the level of landfill tax as the most efficient way to further improve recycling.
5. We would call for a reduction in the tax to a value which reflects better the low market value of aggregate in NI. Average price of Aggregate in NI is £4.25 per tonne (before tax / transport). AGL almost a 50% tax. (This figure is taken directly from the Department for the Economy Annual Quarry Return).
6. Consider the return of an ALCS type or hybrid scheme to reward good practice offering a reduction in tax payable for best practice. This scheme could incentivise delivering Natural Capital, Biodiversity net gain and de-carbonisation in the Industry.

7. Consider the return of a Community/ Sustainability type fund. Revenues raised from this fund could be redirected back into local communities where quarries are located. Revenues could also help local authorities to invest in improving mineral planning skills and resources in order that we have a better mineral planning system and managed aggregate supply system in Northern Ireland.

We anticipate further engagement with Treasury and HMRC over the coming months and will indeed keep MPANI Members fully advised. To view and download our MPANI Submission to the review of the Aggregates Levy click <https://mpani.org/mpa-response-to-the-government-review-of-the-aggregates-levy/>

Brexit Impact

This past month has also seen MPANI submit a response to the Alternative Arrangements Commission Report into the Brexit Impact on the Irish Border.

MPANI along with other Representative Organisations from the NI Business Community met with the ACC on two occasions and had a very useful but frank exchange of views.

We welcomed the AAC commitment to work to prevent a NO DEAL and the following comments within their Interim Report:

1. On the need for Protection of the Belfast/Good Friday Agreement and the Peace Process.
2. The preservation of the Common Travel Area agreement.
3. Solutions to the border must seek to maximise cooperation in the relevant areas, and must be founded on the principle of consent.
4. Our goal should be to ensure that the Irish border is the most seamless anywhere.

It is clear from the attempts of the Alternative Arrangements Commission in this report to prove that a technology-based plan for avoiding a hard border is possible, are to say the least extremely flawed. Currently the proposals contained within the Interim Report do not meet the requirements to

ensure a seamless flow of trade between Northern Ireland and the Republic.

To view our full submission to the Alternative Arrangements Commission Interim Report click <https://mpani.org/mpani-submission-to-the-acc-interim-report/>

Local Development Plan

We have been continuing our work with the Local Councils Local Development Plan teams and have recently met with Lisburn and Castlereagh, Mid Ulster and Derry Strabane. The main message has been the need to recognise the importance of our sector at the local level and the economic contribution our Members make in terms of turnover, wages into the local economy and significant rates contribution our Members make to local Councils.

We have recently made a submission to the Ards and North Down Preferred Options Paper and are preparing a submission to the Antrim Newtownabbey Draft Plan Strategy. I must once again stress the need for every company to engage with their local Council in the Local Development Plan process to ensure that your own specific company needs are recognised within the local development plan process.

Meanwhile, I am delighted to announce our "MPA Good Neighbour Scheme" which is being rolled out across the UK and will be formally launched in the Autumn of this year. Some 25 Companies have come forward, two of whom are local MPANI Members, to pilot the scheme at their sites.

Looking forward into the late Summer and Autumn the key issues will be Brexit, re-establishing the Executive at Stormont and the impact of wider global impacts on our local economy. It is abundantly clear that until such times as we get effective decision making back in NI we will have to put up with 1 year budgets, a slow and bureaucratic planning system and a procurement system that will continue to be confrontational and fails to construction pipeline of work.

Website

Finally, I am delighted to announce the redesign and relaunch of our MPANI Website. To visit our website go to <https://mpani.org/>

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view from the cab

JCB'S FULLY ELECTRIC MINI EXCAVATOR LEADS THE WAY

JCB has been at the forefront of the development of increasingly low emission diesel technology, with its growing range of Dieselmix and Ecomax engines. While diesel will remain essential for powering machines, the drive towards clean construction sites is seeing electric technology beginning to play a part, with JCB once again leading the way with the introduction of the E-TEC range of machines, reports Dan Gilkes for Plant & Civil Engineer.

The company is no stranger to electric drive, of course. It has had electric access platforms for some years and currently offers both traditional lead acid and lighter lithium-ion battery packs in a number of models. Even the recent announcement that JCB would create the world's first electric Teletruk industrial forklift comes as little surprise, with the forklift market already boasting electric drive on masted models and customers used to charging and changing lead acid battery packs when required.

However, the 19C-1E mini excavator really is something new, offering a full electric, battery only 1.9-tonne mini excavator, with all of the performance and productivity of its diesel counterpart. Unlike some competitors, and in answer to customer response, there is no requirement for a power lead to run the machine.



It can operate totally independently throughout a full working shift.

The 19C-1E is based on the firm's high specification 1.9-tonne diesel model, simply replacing the diesel engine with an electric motor, to power the standard hydraulic system. The machine can be supplied with a choice three or four lithium-ion batteries using the latest Nissan automotive technology. These provide either 15kWh for three batteries or 20kWh of storage capacity with four batteries, which JCB claims is enough to work all day for the majority of mini excavator customers.

Indeed, in trials prior to the launch, customers who expected to experience 'range anxiety' were surprised by how much spare capacity was left in the battery packs at the end of the day.

JCB's own research, taking data from hundreds of machines using its LiveLink telematics system, also shows that most customers with a 1.9-tonne mini excavator don't work the machine hard for eight hours a day. JCB's testing and analysis has shown that the battery will not need to be replaced during the lifetime of the machine.

The machine can be supplied with either a 230V or a 110V industrial charge lead, to suit construction use. JCB chose not to opt for automotive style connectors, as they would be of little use on site. Using the 110V input, from a completely flat battery, the mini excavator can be recharged in under 12 hours. That can be reduced to an eight-hour charge time using 230V. An optional off-board fast-charging system will also be offered, delivering a full charge in less than two hours.

Anyone worried about running out of charge in the middle of the site should be reassured by the fact that the machine will warn the operator when there is just 10% of charge left. Testing has shown that this allows a further 30 minutes of use. At 5% charge, the machine will adopt a reduced power 'limp home' mode, to allow the operator to move to a charging position

Hydraulics

The 19C-1E uses a 48V electrical system to power the hydraulics, with a standard 12V battery under the bodywork to run



ancillary equipment. It has the same Bosch-Rexroth load-sensing hydraulic system as the diesel machine, driven by a permanent magnet electric motor. This delivers identical performance and digging ability with a 32 litres/min auxiliary circuit for attachments.

Indeed, early drives have shown that the electric machine is even slightly more productive, as the motor creates maximum torque from zero rpm and the electric motor doesn't lug down in the way that a diesel engine can when the machine hits hard ground. It also feels totally natural when operating, as the hydraulic system is unchanged.

The 19C-1E has three operating modes, controlled by the traditional rotating speed control on the dash console. The lowest setting runs the electric motor at 1,200rpm, while in general mode it rotates at 1,600rpm. For heavy work there is a high mode that gets the motor spinning at 1,800rpm. The machine is also equipped with an Auto Kick-up feature for high-speed tracking, where the motor spins at



THE 19C-1E MINI EXCAVATOR REALLY IS SOMETHING NEW, OFFERING A FULL ELECTRIC, BATTERY ONLY 1.9-TONNE MINI EXCAVATOR, WITH ALL OF THE PERFORMANCE AND PRODUCTIVITY OF ITS DIESEL COUNTERPART.



2,300rpm for maximum flow to the track motors.

Well Equipped

The standard 19C-1 is a high specification mini and the electric model is equally well equipped. It comes with a ROPS/TOPS and FOGS certified canopy and a membrane switch pad to the right of the operator for lighting and other controls. The servo levers also get proportional rocker switches for auxiliary functions and for boom offset swing, keeping the cab floor clear for the operator.

Once in the operator's seat, starting the machine is achieved by turning the key as normal, with a light on the dash showing that the motor is active. As with all JCB excavators the machine has the firm's 2Go safety system, so the operator has to be seated with the seatbelt connected. They then have to press the 2Go button to make the servo levers active.

Then it's simply a case of operating the machine like any other mini excavator. There is some hydraulic noise from beneath the bodywork, but the 19C-1E is said to

be five times quieter than a diesel model and of course, it is zero emissions at the point of use. This should make it a popular choice with urban contractors, particularly those working overnight.

The lack of exhaust fumes will of course be the main point for many customers though. JCB admits that the machine will carry a premium over the equivalent diesel model, though customers should consider whole life costs. Running on electricity will invariably be cheaper than diesel, while service work is almost non-existent, limited to the normal hydraulic filter change and regular greasing. JCB is estimating service costs some 60-70% lower than for a comparative diesel model, while the estimated running cost for operators using an industrial electricity supply, will be around 50% lower than for diesel. That drops to 60% lower for a domestic user versus running on white diesel.

High Demand

Cost aside, it would appear that there are plenty of customers already calling out for

electric drive. This includes contractors that need to work inside buildings, plus firms involved in underground and rail work, where fume extraction equipment can make overnight possessions a costly business. The mini is also capable of handling all of the attachments that come with the regular diesel model, so demolition could be an option too.

Unlike electric car drivers, who have had to adapt the way they drive and refuel to suit their vehicles, the electric mini excavator operator has to make few changes to their daily work, other than plugging the machine in at night.

The 19C-1E works just like its diesel counterpart and it will surely be just the first of many electric machines to come from JCB's compact equipment division.

IT'S ALL CHANGE AT RDS TECHNOLOGY'S NORTHERN IRELAND DISTRIBUTORSHIP



After more than 30 years at the helm of RDS Technology's Northern Ireland distributorship, David McCollum is taking a step back from the business which will now be headed up by Gavin Weldon.

The move will also see the introduction of a new name for the local distributors of Topcon's range of measurement, monitoring and control equipment.

Going forward, the business will now operate as Weltech Limited, with a new operating base located in Newry, County Down, with David switching to a more consultative role.

Gavin Weldon is no stranger to the industry, nor to the Topcon brand. Weldon Agri has been offering Topcon systems for the past five years, covering the North East Counties and Northern Ireland, providing sales, service and support to the agricultural industry.

"I am looking forward to the new challenge and to working alongside David as we focus on further building up the business across Northern Ireland," says Gavin.

"I am very familiar with the Topcon product range, having established a solid customer base in the agricultural sector," adds Gavin. "Now, my focus will also be on the quarry, construction and waste management industries where David has enjoyed many successful years supplying onboard weighing systems and other Topcon products."

Coleraine based David, who operated under the name RDSTECNI, became a distributor for Northern Ireland in the 1990s and reckons he has covered more than 600,000 miles on the road serving customers across the quarry, construction, recycling and agricultural sectors.

"There's been a lot of changes over the past three decades," recalls David. "Technology has advanced at a rapid pace and we have all had to keep up with it. Even the way the business was administered has changed dramatically, with documentation and other paper trails being replaced by emails and online communications. It's all done now by the click or press of a button."

Even the company he represented underwent some radical changes. In 2012, RDS was acquired by the US company Digi-Star LLC, a leading manufacturer of electronic weighing systems, providing measuring solutions



Gavin Weldon and David McCollum.

to optimise agricultural performance. In 2015, Digi-Star and RDS were acquired by the Topcon Positioning Group, whose UK base is located in Gloucestershire.

One of David's very first products he promoted was called a 'speed and area meter', a cost-effective device which was fitted to a tractor to measure and track areas worked, work rates, engine hours and other aspects.

He was then approached by RDS Technology to distribute its onboard weighing systems; the first he fitted was for a customer in Comber in County Down, and he hasn't looked back since.

Over the years, David has visited virtually every quarry and construction site in Northern Ireland and has made many friends along the way.

"My work has taken me to places I would never have visited otherwise. I have been

down the salt mines in Carrickfergus, in the Black Mountain quarry overlooking Belfast, to limestone quarries, waste transfer stations, to mushroom yards and fertiliser factories, meeting all sorts of people operating all sorts of businesses."

He adds: "It's been a long and rewarding career, and I will miss the craic! That said, I will still be involved in the business for some time to come, acting alongside Gavin as a consultant and continuing to connect with customers. He is very keyed into the product range and is dedicated and focused on expanding the business in the years to come."

Taking a back seat, David will now be able to spend less time on the road and more time with his wife of 36 years Margaret, his two sons and daughter; as a friend of Plant & Civil Engineer, we wish him all the very best for the future.

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JCB Hydradig 110W Wastemaster for Polymer processing plant

Leading Irish manufacturer of uPVC building products, RE-KKUR, has introduced a JCB Hydradig 110W Wastemaster wheeled excavator at the in-house plastic recycling facility that it operates at its County Fermanagh site.

RE-KKUR opened its new Polymer Processing Plant in 2018 to further improve the efficiency of its recycling processes. RE-KKUR's in-house recycling capability enables the company to produce a high quality product that is made from 99 per cent post-industrial recycled PVC – giving it a distinct competitive advantage.

Waste management companies deliver trailer loads of reclaimed uPVC that has been removed from homes, offices and other buildings to RE-KKUR's site each day.

The plastic is deposited within a designated drop off zone before being transferred by the Hydradig to the processing facility. Here the uPVC is crushed



Building products manufacturer, RE-KKUR, has introduced a JCB Hydradig 110W Wastemaster at its plastic recycling facility in County Fermanagh.

and turned into 'chips' which are then used by RE-KKUR within its production units to manufacture a range of building products – most notably render beads employed by plasterers.

Supplied by dealer, Dennison JCB, with a service and maintenance support agreement, the JCB Hydradig 110W Wastemaster offers outstanding visibility, stability, manoeuvrability, mobility

and serviceability. With 4-wheel steer, 2-wheel steer and crab steer as standard, it is easy to operate and, with a turning radius of under 4metres the machine can operate safely and efficiently at sites where space is confined.

Vincent McCoy, Managing Director of RE-KKUR, said: "One of RE-KKUR's core principles is a commitment to the environment. By using recycled materials in all of our PVC products we are able to have a positive impact on our environment.

"The JCB Hydradig 110W Wastemaster plays a vital role in our in-house recycling process, so it is essential that machine uptime is optimised. We rely on efficient materials handling equipment and thanks to JCB's outstanding build quality and the exceptional commitment to after-sales support of local dealer, Dennison JCB, the Hydradig delivers optimum performance day-in, day-out."

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Quality Used Plant and Machinery Spares from James Wightman

If you are looking for used – or new – plant and agricultural machinery parts, look no further than the team at Ballynahinch, County Down, based James Wightman Digger Spares & Repairs.

Whether you need rollers, chains, sprockets or recoils, slew gearboxes, track adjusters, doors, cabs or panels – whatever your requirements, James Wightman Digger Spares & Repairs should be your first port of call.

As the largest, fully licensed digger breakers operating in Northern Ireland, the company supplies new and used digger parts for all makes and models of machines ranging from 0.5 tonne to 50 tonnes; indeed, to date, the company has dismantled over 500 machines, many of them from between 2008 and 2016.

Headed up by James Wightman who has a lifetime of experience in the industry, customers can have every confidence when dealing with the company as it guarantees all the parts it sells – and it covers virtually all of the top names, including JCB, Hitachi, CAT, Volvo, Daewoo, Takeuchi and much more.

Established almost 40 years ago, James Wightman Digger Spares & Repairs works closely with people involved in the construction and agricultural sectors,



including contractors and farmers, as well as handling insurance 'write-offs,' so if you need plant or agricultural machinery dismantling you know you can rely on the company which offers safe and environmentally friendly machinery breaking services.

"We are able to provide used and reconditioned parts not only for younger machines, but also for much older equipment

where parts have been discontinued and are difficult to get," says James. "We always carry an extensive range of spares, and even if we haven't a particular part in stock, we can usually source it for the customer."

So, if you need a part, but don't want to pay top prices, give James a call now on 07860 920 827 or log on to www.jameswightman.co.uk

Groundforce bring home prestigious industry award

Groundforce Shorco are celebrating after winning the award for 'Specialist Geotechnical Supplier of the Year' at this year's GE Awards.

The Awards brought together over 800 clients, contractors, designers and geotechnical

experts for a glamorous evening of celebration, recognition and networking, which was held at the London Hilton on Park Lane.

After a review by the panel of over 50 expert judges, Groundforce won in recognition of how they clearly demonstrated innovation in a number of areas and

across a variety of projects, including training provision.

Good growth and investment in staff built on the foundations of the key values of service, technical excellence, innovation, value and compliance. Good all-round business with high standard of ethics with

regards to the treatment of the supply chain

Groundforce's sales and marketing director, David Garden said: "Becoming a finalist and then going onto win is a great achievement for our business. It endorses our expertise; the products we develop; how our training division is raising standards in excavation construction; and how our teams in the UK, Ireland and mainland Europe are delivering the highest levels of service to our customers."

Ramboll appoints new Head of Sustainability and Building Physics

Engineering, design and consultancy company Ramboll has appointed Phil Kelly as its new Head of Sustainability and Building Physics in its building's division. Phil is joining Ramboll from Hoare Lea with 12 years' experience in the sector.

Commenting on his appointment, Matt Hann, UK Head of Building Services for Ramboll said: "Phil's recruitment is a significant achievement in our restructuring and strengthening strategy for our building services team. We have ambitions to achieve an increase of 40% in revenue from sustainable

solutions and have made a number of strategic hires to achieve this ambition.

The building services team in the UK has grown by 15% to 170 strong over the past year, which includes eight new directors and a new team in our Birmingham office.

"Sustainability is a vital part of all our future. We have been working hard to demonstrate to clients that sustainability can pay. By working differently with clients, we have been able to deliver carbon and cost savings, by using data and advanced digital tools to bring about real value.

We are excited about accelerating this approach with Phil's leadership and insight to deliver more sustainable solutions for clients and wider society."

Commented Phil: "With such clear commitment to delivering more sustainable solutions, I am hugely excited to have a pivotal role in delivering low carbon solutions for Ramboll's clients. It's an area I am very passionate about and the ability to enact real change is a challenge I look forward to tackling head on with my Ramboll colleagues."

OUR RANGE. YOUR RULES.

Rewrite the rules with our extended range.

330

336

D6 XE

Your success is at the heart of everything we do. That's why our new range of machines has grown again to help you overcome more of your jobsite challenges. The new Cat® D6 dozer and the world's first high drive Electric Drive dozer D6 XE, offer you the highest levels of productivity, fuel efficiency and ease of operation. Additionally, our extended range of excavators now includes 30 and 36-tonne options with unprecedented technology features to improve efficiency at every cycle. With a greater choice of equipment now available to support every application, together, we can rewrite the rules of any operation.

[#rewritetherules](#)

To find out more call **01543 461410** or visit www.finning.com/YourRules

LET'S DO THE WORK.™

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FINNING 

view from the cab

ELECTRIC PUSHING POWER WITH NEW CAT D6 XE DOZER

BY PETER HADDOCK

In February this year, Caterpillar held its annual press launch at its demonstration and learning centre in Malaga. Although the big product push was its new mini excavator range, the real pushing power came from the launch of the world's first high drive electric drive dozer, the Cat D6 XE.

It's not the first electric drive dozer Cat has launched, it debuted the more specialist Cat D7E at Conexpo in 2008 and just over 10 years later, the Cat D6 XE was on public display for the first time at Bauma 2019.

The difference with the Cat D6 XE is the fact that it is the first mass-market electric drive dozer to be launched by

Caterpillar. Packed with new features, it is set to make a significant impact on the market, particularly when it can deliver an up to 35% improvement to fuel consumption, compared to the D6T.

The headline message from Caterpillar at the launch was all about pushing power as the electric drive delivers remarkable torque, enabling the operator to load the blade with far more material than they would when using a traditional diesel unit.

This is set to surprise operators, as Malaga demonstration specialist, Kevin Flynn explained when I spoke to him after he demonstrated the new unit. "With the new dozer, there are no gears to shift, so as soon as you start to operate the machine you experience constant power to the ground. As someone who has operated dozers for many years this immediate power comes as a bit of a shock.

"When you get into moving the dozer around the site, you also notice how agile it is, but the real difference is the pushing power. At first,

I was going into a pile as I would with a diesel D6. That was until the design team told me to push the unit as hard as I could. It was only then when taking a full blade at speed, that I realised the unit was simply pushing

THE CAT C9.3B ENGINE IS ONLY USED TO DRIVE AN ELECTRIC GENERATOR, THE D6 XE IS ALSO EXTREMELY FUEL-EFFICIENT



it without any noticeable reduction in speed. On completing like for like testing against the diesel unit, the D6 XE was significantly faster, leading to a measurable difference in cycle times. Translate this to an operator working high hours on a major project and there will be potential for huge productivity gains."

When product specialist Jean-François Villard was talking about the new D6 XE, you couldn't help getting caught up in his sheer passion for this game-changing model. Especially when he was explaining how the D6 XE delivers both performance and efficiency bonus when compared to the standard model.

"This machine just does not stop pushing, its performance is staggering. This is because from the minute you operate the machine the electric motor delivers maximum torque, which in a dozer translates to best in class pushing ability. With so much power available, the motor also enables the operator to increase speed, even when under significant load.

"Because the power delivered from the Cat C9.3B engine is only used to drive an electric generator, the D6 XE is also extremely fuel-efficient."





Design Changes

When it came to getting up close to the Cat D6 XE, there were a surprising number of changes made to the overall design, as Jean explained: "There are several major design changes in this machine. The first is that there are now almost 90% fewer rotating parts in the D6 XE, than its diesel equivalent. This not only dramatically reduces the number of wear parts; it also means the engine is under significantly less stress.

"In practical terms, this will result in longer working life for the driveline and a substantial reduction in maintenance costs. Because of this, we are now able to offer an industry-leading seven-year/20,000-hour transferable warranty on the generator, motor, power inverter and cables."

Other significant new design features include a new cab design, chassis, C Frame, powershift transmission and VPAT blade arrangement. As you would expect, Caterpillar has also added in a new digital control touch screen pad to assist the operator and included Added Jean: "The new C Frame and chassis make this a very well-balanced machine for the operator, and when you opt for the VPAT configuration, because the cylinders

are horizontally mounted you can feel the impact of the improved balance. With the new design, we are also offering an LGP version of the D6 XE with 5psi ground pressure, making it ideal for the softer applications these units are used for."



Efficiency and productivity will also increase when machine control technology is used with the machine. Here Caterpillar has recognised the growing importance of this technology, fitting the Cat D6 XE with the improved Cat GRADE with Slope Assist. This onboard solution automatically maintains blade position without the need for a GPS signal.

"Customers will also be able to opt for the updated Cat GRADE with 3D, which now delivers more speed and accuracy without position sensing cylinders. Integrated at the factory, this system has a new, 254mm touchscreen, loaded with the Car dozer apps, so that is that works just like a smartphone. Smaller antennas have also been integrated into the cab roof for better protection."

Of course, like all new dozers, the D6 XE also comes Trimble Earthworks 3D machine control ready. This allows users to take advantage of this advanced functionality, by purchasing the additional 'plug and play' hardware for the machine, or hiring it from SITECH UK & Ireland, as and when it's needed.

Commented Jean: "The D6XE is all about productivity, so users of the LGP version with its wider blade will see a noticeable increase in the 2.5-3.0 speed range, which will deliver faster grading – without sacrificing quality. We also have a new finish grading undercarriage option with 10 rollers, which delivers smoother grading, at higher speeds, even in difficult surfaces like sand and gravel."

With the first Cat D6 XE models set to be on sites in the UK soon, there is certainly going to be a treat in store for operators, sitting in the new cab, when they get their hands on one.

CQMS19 ANOTHER RESOUNDING SUCCESS AT NEW VENUE

The Construction & Quarry Machinery show (CQMS19) recently took place at Punchestown where visitors were treated to a vast display of the latest technology, plant and equipment.

The famous Kildare racecourse proved an ideal location for the event which attracted over 180 exhibitors, showing off a wide variety of equipment, services and parts.

Show visitors were clearly impressed with the latest and best products from leading companies such as Komatsu, Kobelco,

Takeuchi, Yanmar, Case, Euro Auctions, Hitachi, AIB Finance, Bomag, Dynapac, Takeuchi, Dieci, Volvo, Sino, LiuGong, and RB Auctions.

Also there were earthmoving tyre providers such as Magna Tyres, BKT and Continental, while attachment providers like Hill Engineering and Geith displayed the best tools to complement your machine. Tilt-rotators are becoming an essential piece of equipment for excavator owners, and top tilt makers Engcon, Steelwrist, Rototilt and

Kinshofer were turning heads with their latest products in a dedicated demonstration area.

Many Northern Irish dealers were also there, including Glendun Plant Sales, WAC McCandless, and Epiroc, while Komatsu showcased their new pre-installed software which is the very latest in cutting edge machine guidance systems.

One highlight of the show was the two-kilometre-long tipper truck route, where machines from the likes of DAF, Renault, Sino and MAN were available for test drives.



Fuel efficient and powerful Liebherr dozers



Pushing performance at its highest

- Hydrostatic drive and constant engine speed guarantee low fuel burn and excellent manoeuvrability.
- Stage IV / Tier 4f, Liebherr dozers do not require a DPF and regeneration, keeping downtime to a minimum.
- Choice of blades mean that Liebherr dozers deliver incredible pushing performance in any application.
- Newly designed cab shape with panoramic windows giving outstanding visibility of the blade and rear ripper ensuring more efficient operations and maximum on-site safety.
- Factory fitted Autograde kits are available for all popular makes of GPS system.
- Centralised maintenance points - longer service intervals enabling more operation and less downtime.

HYDROSTATIC BULLDOZERS

Model	Engine Output	Operating Weight
PR 716	93 kW / 126 HP	13,300 - 15,800 kg
PR 726	120 kW / 163 HP	16,000 - 19,800 kg
PR 736	150 kW / 204 HP	20,200 - 24,600 kg
PR 746	185 kW / 252 HP	28,300 - 30,800 kg

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LIEBHERR

view from the cab

LIEBHERR PR 736 LITRONIC: A DRIVER FRIENDLY, FUEL EFFICIENT & ROBUST WORKHORSE

Heavy duty dozers are designed for heavy duty work. They operate day and daily in tough and sometimes challenging conditions, so they have to be rugged in design and construction, and above all they have to be dependable. They also have to be driver friendly, offering a comfortable working environment.

Finding just such a dozer that perfectly fits the bill in every respect is not always easy, but as Plant & Civil Engineer's David Stokes reports, McCormick Contracts' new Liebherr PR 736 Litronic is not only living up to expectations, it is exceeding expectations. And here is why...

Powered by the latest generation of Liebherr diesel engine, this fuel-efficient dozer utilises SCR technology which means a diesel particulate filter is not required. The constant, low engine

speed, in combination with Common Rail injection, ensures optimised cylinder charging and, in turn, even more efficient fuel combustion, providing the right amount of power in every situation.

The selectable Eco-Mode reduces the engine speed at the push of a button while maintaining the necessary power and lowering fuel consumption, making it ideal for light and medium-duty applications. If the machine idles for an extended period of time, the engine can shut down automatically and avoid wasting fuel needlessly.

The Liebherr's hydrostatic travel drive operates smoothly and automatically adjusts the working speed to the load conditions. The engine's power is always transmitted to both tracks without interruption. This permits exact and powerful steering; track

AT A GLANCE

- Robust design in every regard
- Powerful engine
- Intelligent Drive System
- Single-Lever Control
- Excellent Manoeuvrability
- Safe & stable on every terrain
- Ample space, ergonomics and comfort
- Simple Maintenance



slip is minimised and operators can concentrate completely on their work.

The drive components have been placed to provide a very low centre of gravity while still ensuring maximum ground clearance. Together with solid belly pans this permits safe, stable and reliable operation when performing challenging work on slopes and embankments.

When working in tight areas, the hydrostatic travel drive offers an additional benefit. All steering motions – including turning on the spot – are fast and effortless. In ripping work, the ripper can be positioned precisely between hard layers of rock and break out the material with ease.

Good Investment

The dozer is currently employed on a contract to add a new landfill cell at a site



operated in Garvagh for multiple award-winning RiverRidge, which is Northern Ireland's largest and most diversified independent waste management company.

"We had already operated a Liebherr in the past, and we were very happy with it, so we knew the new machine would be a good investment," says Garreth McCormick from Ballycastle-based McCormick Contracts, a highly successful and well respected family run groundworks and civil engineering company that was established more than 40 years ago.

"Also particularly attractive to us was the offer of a good warranty and service package from Liebherr," adds Garreth.

So what about driver comfort and ease of handling? "Our driver is very impressed with the dozer. It packs plenty of power, is very manoeuvrable and stable – and it has an excellent cab that is very comfortable," says Garreth.

Certainly, the well-thought-out design of the operator's cab provides the best prerequisites for relaxed and productive work. All instruments and operating controls are carefully organised for easy reach; all driving

functions can be controlled smoothly and precisely with only one operating lever – including the "turning on the spot" function.

An intuitive touch-controlled screen conveniently displays all important operating data. At the push of a button, the operator can adjust a wide variety of machine settings – for example, the response of the travel drive – precisely to his needs.

Carefully considered details such as a cooled storage compartment, additional footrests, adjustable joysticks and a powerful air conditioning system also serve to improve the operator's comfort.

As Garreth mentioned, stability, of course, is always an important factor when working on uneven terrain, and the Liebherr doesn't disappoint. The crawler tractor operates with continuous power on both tracks even when driving on slopes. Thanks to the self-locking nature of the hydrostatic drive system, the operator can bring the machine to a stop at any time simply by returning the joystick to the "neutral" position – or by depressing the inching pedal. An automatically activated parking brake provides additional safety.

"All round visibility, too, is excellent," adds Garreth. That's thanks to the provision of larger panoramic windows and downward-sloping edges all-round, and coupled with a higher seat position, wider doors and optimised engine covers, the operator always has an excellent view.

Easy Servicing

The dozer is also easy to service, with all items that the operator checks during daily routine inspections being readily accessible on one side of the engine. The hydraulically tilted cab provides easy access to components as well. Service work can be performed quickly and efficiently, with all service points centrally located and easily reached.

LEICA GEOSYSTEMS 3D MACHINE CONTROL GETS THE 'MASS DATA' SURVEY TREATMENT

BY PETER HADDOCK

3D machine control is not a new thing for the plant sector, in-fact it is now a necessity to even get onsite for some jobs, like those run by Highways England. By specifying 3D machine control at the design/concept phase of a project, both customers and main contractors have signalled the beginning of the end-to-end digital construction revolution we have all been predicting.

To see what this revolution means in practical terms, I recently attended main contractor BAM's 'Digital Construction Live' event as a guest of BAM and Leica Geosystems.

Run for its own staff, the event incorporated talks and demonstrations from leaders in the industry and experts from its supply chain. On talking to various experts, it was eye-watering to discover just how much data BAM is already collecting and manipulating to support the delivery of the hugely varied projects they work on.

One of the key areas for discussion at the event surrounded the process of obtaining 'one version of the truth' through the collection, validation and use of data (think real-time 3D models) in one accessible, yet secure cloud-based hub.

When you look more broadly at this single 'Mass Data' model that is being created for a project, it all starts with a 3D design/vision and begins onsite with demolition and remediation, continuing from there.

Transitioning from this 3D vision to working out how to construct it, is where the 'Mass Data' collection starts in earnest, with the surveying of the entire site. It's a process that has its own challenges, as I discovered when talking to Leica mobile mapping business development manager, Antonio Mendes at Plantworx 2019.

"The speed and accuracy of data collection and validation onsite has become so important for main contractors and their clients, that they are now much more open to new surveying hardware and technology innovations.

"In practical terms, project managers are looking for greater levels of efficiency and accessibility in the collection and processing of data. Leica have seen this as an opportunity to develop a range of new devices that give a greater choice to the surveying team onsite, whilst supporting the proliferation of real-time 3D machine control ready models.

"When you look at different project types, there are numerous site restrictions surveyors face, that will impact how they can map a site in the first place. Therefore, if you have a choice to combine numerous hardware solutions that can feed into one model, particularly as a project progresses, you are ultimately going to realise some serious efficiency gains.

"For example, some sites restrict the use of ATV's and other inner-city sites may have drone restrictions. Similarly, for underground projects, other devices like our new backpack, may be more convenient. The critically important part is making sure



Antonio Mendes, Leica mobile mapping business development manager.

all of this data is accurate, available and useful. By combining different data inputs, we can then create a full project overview, that can change in real-time, as machines and other connected devices send through progress updates. We can even use ground penetrating radar, to map what we can't see."

Having shown me at Plantworx how its new Pegasus system, which was displayed on an ATV at the show, was able to swiftly collect data on the move, it was time to see how data was used to create a model for its 3D machine control solution. Here Antonio demonstrated how 3D machine control models are created by combining the data

collected by its full range of equipment. This range now includes the new Pegasus vehicle mounted and backpack system, its drone, ground penetrating radar and more traditional total station surveying inputs.

Antonio then introduced me to Leica machine control specialist Mike James, to talk about the latest developments and trends. "Over the last 12 months we have seen a huge demand for 3D machine control, not just for the now more traditional dozer and excavator users, but also for use with more specialist equipment and attachments.

"There has been a significant uplift in drilling, piling, milling, compaction control and paving. What is really interesting about 3D compaction control is the very real-time impact data sent from the machine can have on the management of a project. This is because you never know how much material will compact at any one part of a site. So, depending on this outcome, you will need more or less material to achieve the required level of compaction. "Knowing this information in real-time can literally set off what I call a 'train reaction'. For example, information on the need for more fill at a certain part of the site, can be updated into the model straight away. This can then alert the equipment train responsible for providing that material.

In practical terms, the excavator operator will know how many more ADT's to load or part load (using onboard payload technology). The dozer operator will then know what level is required to spread more material and the compactor will then complete the job. When used in real-time, this approach can have a serious impact on increasing efficiency, whilst significantly reducing machine passes and therefore fuel and carbon emissions.

"Another area that is currently at the early adopter stage, but is set to be exciting, is the use of machine control with tiltrotator attachments. This allows excavator drivers to go way beyond traditional 3D machine control. With a machine control enabled tiltrotator, all of a sudden, a much wider range of operations become possible, from dozer type grading to complex trenching. With machine control also now being fitted to much smaller excavators and skid steers, the proliferation of the technology continues at a pace."





PROUD TO PERFORM

D65EXi/PXi-18

CRAWLER DOZER

ENGINE POWER 164 kW / 220 HP **OPERATING WEIGHT** 22.200 - 23.000 kg **BLADE CAPACITY** 3,69 - 5,61 m³

Innovative. Integrated. Intelligent.

With its innovative and fully automatic blade control function, the Komatsu D65EXi/PXi-18 Intelligent Machine Control dozer offers an outstanding improvement in productivity. The automatic mode can be used for both rough dozing and finish grading. All machine control components are factory-integrated and work together to deliver optimal production levels.

view from the cab

KOMATSU'S D65PXi DOZER SCORES TOP MARKS WITH AWARD WINNING CONTRACTORS

A new Komatsu D65PXi dozer, supplied by dealers WAC McCandless, is impressing its operator at Clive Richardson Limited (CRL), an award winning multi-disciplinary company based in County Armagh with renowned specialist expertise in sportsground design, construction, renovation and maintenance, as Plant & Civil Engineer's David Stokes reports.

From its offices in Portadown, Dublin and London, CRL has been delivering a wide range of projects around the world since it was first established in the late 1960's; the past decade has seen a period of unrivalled growth and the company is today considered as one of the leaders in the sportsground construction industry.

From concept, through design, into construction and beyond, it has worked with, and for, some of the most well-known and respected names in the sports industry to deliver inspiring

sportsground solutions to the highest standard, while also being highly active in a number of other disciplines including Arboriculture, Grounds and Facilities Management and Landscaping.

With such a respected high profile, the company utilises only the very best in people – and in plant and machinery, which is why it puts its confidence in reputable, dependable and efficient brands such as Komatsu.

Powered by a 164 kW/220hp Komatsu EU Stage V engine, the new D65PXi has been

earning its keep at CRL since the Spring, impressing its operator Philip Douglas with its performance and handling, and is currently being utilised on high precision grading work on a new sports pitch.

"I've been working with it since March and it still feels like a brand new machine," says Philip. "I have driven other Komatsu dozers in recent years, but this is definitely the best. It is more powerful and smoother and easier to handle."

Cab Comforts

The cab on the D65PXi-18 is quiet and comfortable. Its hexagonal design and large tinted glass windows offer excellent panoramic visibility, enhanced by an integrated rear-view camera, as Philip told us: "The cab





represents an excellent working environment. It is so quiet and so spacious, with plenty of legroom and is easy to get in and out, thanks to the large door opening. It's like a home from home, to be honest, and the visibility from my seat is unreal."

The high capacity and fully automatic climate control system pressurises the cab to keep dust out, while a comfortable, heavy-duty and fully adjustable heated air-suspended seat makes life even more comfortable for Philip.

For dozing operations, the seat faces straight forward, with a perfect view of both sides of the blade. For ripping, it can be turned 15° to the right to significantly improve rear visibility and reduce neck strain. The position of the travel control console can also be independently adjusted forwards, backwards and in height to fit individual preferences.

Automatic

While high-precision finish grading can be achieved by dozers with a conventional control system, the

D65PXI-18 can also perform rough dozing in automatic mode.

When rough dozing, the fully automatic blade control monitors blade load and adjusts



blade elevation, to minimise track slip and perform high-efficiency dozing. Blade control adjusts to provide finish grade performance with high-level precision.

Set by default, the D65PXI-18 has a highly efficient transmission that automatically matches the

best gear mode in all dozing operations and includes a travel speed pre-set function to reduce work time and fatigue for the operator, and with Komatsu's Electronic Controlled Modulation Valves gear changes are smoothly timed to always keep the power transfer at maximum efficiency.

As Philip also discovered, the hydrostatic steering system offers fast response and more precise turning. Both tracks are powered without interruption allowing smooth, continuous turns and powerful and productive dozing even on soft ground or on slopes.

To reduce the frequency of gear shifting and for comfortable machine operation, a shift pre-set mode is provided as standard equipment. The pre-set switch lets the operator select a combination of forward/reverse gear shifts by using the UP/DOWN shift switch on the steering lever. Once the shift pattern is selected, only forward/reverse direction control selection is required for a correct gear shift.

Philip, who has been driving machines for the past 16 years, was also full of praise for the Komatsu's innovative factory installed 3D Global Navigation Satellite System (GNSS) Machine Control system.

Add-on components for machine control typically mounted on the blade are now replaced with a factory installed cab top GNSS antenna, an enhanced inertial measuring unit, and with stroke sensing hydraulic cylinders. This integrated sensor package is robust and accurate. It eliminates the daily hassles of installing and removing antennas and cables from the blade, and the wear associated with it.

Fuel Efficient

Combined with the automatic transmission, the exclusive Komatsu automatic lock-up torque converter reduces fuel consumption

by up to 10% by eliminating unnecessary power loss. When required, the powertrain control system engages the torque converter, or locks it up to send full engine power directly to the transmission during less torque demanding applications.

To reduce unnecessary fuel consumption and exhaust emissions, and for lower operating costs, the Komatsu auto idle shutdown automatically turns off the engine after it idles for a set period of time, which can be easily programmed from 5 to 60 minutes. An Eco-gauge and Eco guidance tips on the cab monitor further encourage efficient operations.

Easy Maintenance

Keeping the machine in optimum condition is also made easy by a number of well-thought-out touches. The radiator, for example, can be easily cleaned by utilisation of the reversible, hydraulically driven cooling fan from a touch on the monitor panel. This cleaning reduces fuel consumption and increases overall machine performance.

There are also centralised and conveniently located service points to make necessary inspections and maintenance quick and easy, while all the power train components are enclosed in a sealed module to eliminate oil spills and prevent dust and dirt polluting individual components.

The machine's multifunction monitor panel displays the running time, engine revs, fuel level and water coolant temperature in real time. It also provides the operator with maintenance and service information, if oil filters need replacing or any abnormality occurs.

Dealer Support

Aftersales support, of course, is also a major factor when investing in expensive machinery, and that offered by the team at WAC McCandless is, says Philip, "excellent." He adds: "We know they are only just a phone call away if ever we need them. Without a doubt, I am very impressed with both the machine and the aftersales support."

Launch of New Hire Controller Trailblazer Apprenticeship Programme

The Construction Plant-hire Association (CPA) has officially launched the new Hire Controller (Plant, Tools and Equipment) Trailblazer Apprenticeship to ensure effective rollout and delivery of the new apprenticeship programme.

Following approval of the new Hire Controller Trailblazer Apprenticeship by the Institute for Apprenticeships (IfA) in December 2018, the CPA hosted a focus implementation group launch in London in conjunction with CITB to outline the new standard, documentation and end-point assessment devised to support the new apprenticeship programme.

This comes on the back of several years' of hard work by an employer-led Trailblazer Working Group who determined that a Hire Controller Trailblazer Apprenticeship Programme was critical in order to attract new recruits to the construction plant industry, as well as upskilling existing staff into a new role. Hire Controllers co-ordinate the hire of plant, tools and equipment to customers and through a wide-ranging skills set, play a key role within plant hire companies nationwide.

The Construction Plant-hire Association (CPA) has provided extensive managerial and administrative support throughout the process and both the International Powered Access Federation (IPAF) and Hire Association Europe (HAE) have also been involved in the development of the new Hire Controller Trailblazer Apprenticeship which is supported by CITB. This means that the new Hire Controller Trailblazer



Apprenticeship is recognised and accepted by all primary trade bodies and industry federations in the hire sector and members of the CPA, IPAF and HAE will all be able to make use of the new pathway into the hire and powered access rental industry.

The new apprenticeship has been set by the group at a level 2 and will take between 12-18 months to complete, with 20% of that time to be devoted to 'off-the-job' training. The IfA has placed this Trailblazer in funding band 8 which equates to £5000 that can be spent or claimed by employers (subject to current funding rules) for apprenticeship levy and non-levy paying organisations, in line with typical training costs supplied by training providers.

The Hire Controller Trailblazer Apprenticeship process aims to develop certain behaviours including forming positive relationships with customers, working both within a team and independently, developing a 'Health and Safety-first attitude', being self-motivated to meet operational targets, remaining respectful of equality and diversity and remaining committed to continual personal and professional development.

The standard containing the skills, knowledge and behaviours for the apprenticeship, as well as the assessment plan, can be downloaded from:

<https://www.instituteforapprenticeships.org/apprenticeship-standards/hire-controller-plant-tools-and-equipment/>

Merlo Attracts High-Profile Users

The availability of models within the Merlo telehandler range that are equipped to meet the needs of construction and industrial users generally – as distinct from those designed for agricultural contracting application – has helped distributor McHale Plant Sales to add a number of high-profile users to its customer base.

Two of the largest and most respected companies in their sectors – John Sisk and Priority Drilling – are the latest to add Merlo to their materials handling fleets, supplied to them by McHale Plant Sales.



In both cases, the Merlo Panoramic model P40.17 was the model chosen whose

21-strong range boasts features that include Dynamic Load Control and lifting capacities

from 3400kg to 4500kg with lifting heights from 7m to 18m.

Also enhancing its telehandler fleet is leading civil engineering contractor Rossmore Civils, who has recently added a new Merlo Panoramic P38.13 to its machinery line-up, complete with a 3800kg lift and 13metres reach.

These follow recent sales to waste handling and recycling specialist Thorntons, civil works contractor NRS, Raven Mobile Homes and building, civil and marine engineering contractors, L&M Keating – a company already ranked as Ireland's single largest Merlo fleet operator.

PEACE OF MIND



**WITH
PROTECTION
PLAN
INCLUDED**

- 1 + 3 years warranty*
- 5,000 hours
- Powertrain and Hydraulics coverage

* Terms and conditions apply. Business purposes only.
Offer valid on units invoiced from 1st of January 2019 and delivered by 31st of December 2019.
For further details please refer to your CASE dealer.

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CASE
CONSTRUCTION

view from the cab

LARGEST CASE DOZER OUT ON DEMONSTRATION IMPRESSES CONTRACTORS



A NUMBER of heavy equipment users in Northern Ireland and Donegal recently tried out the largest dozer offered by Case Construction Equipment facilitated through the local dealer Cowan Bros NI Ltd., reports Chris McCullough for Plant & Civil Engineer.

With two depots based at Eglinton and Mallusk, the dealer is well located to service customers around Northern Ireland and Donegal with the full range of Case construction machines and Case IH tractors for the agricultural sector.

With a wide range of excavators, wheel loaders, skid steers and backhoes already working in Northern Ireland, Case Construction Equipment decided to demo its largest dozer, the Case 2050M, with a number of operators.

Case launched its M Series of dozers back in 2013 and say they

were designed for precision grading and heavy duty earthmoving applications, powered by an engine developed for powerful low down torque characteristics.

There are three dozers in the Case M range, namely the 1150M, the 1650M and the biggest model, the 2050M, which was demonstrated in Northern Ireland and Donegal.

While the 1650M is the most popular model working across the UK at the moment, the 2050M was designed as a powerhouse with, as Case say, mass and muscle in mind.

In a nutshell, the 2050M is a powerful 24-ton heavyweight machines that

offers the advantages of less time spent on maintenance, less fuel usage thanks to industry-exclusive

SCR technology and less worry thanks to the premium protection of ProCare.

It is powered by a FPT six cylinder direct common rail engine rated at 214hp and has a drawbar pull of nearly 81,000 lbs.

Case highlight the fact that due to the M Series dozers using hydrostatic transmission, which delivers drive to each track independently, the overall centre of gravity is much lower on these machines giving them more pushing power.

The M Series are the industry's first dozers to be powered by an SCR (Selective Catalytic Reduction) Tier 4 engine. Rather than

compromise power, this after-treatment system lets the engine run at peak performance. It also allows a lower hood profile for greater visibility than CEGR setups.

The redesigned cab offers floor-to-ceiling glass doors and a cab-forward design to provide maximum visibility with direct line-of-sight to the blade edge and cab-to-ground vision of only 15.5-feet.

True positive pressure helps keep out the elements and advanced sealing





results in one of the quietest cabs in the industry with a decibel rating of 76 dBA. It has a blade capacity of 3.78 m³ Straight, 5.57 m³ Semi-U, 5.44 m³ Straight PAT and 5.54 m³ Foldable PAT, operated by fingertip controls and customisable steering, shuttle and blade sensitivity settings that can be adjusted between Smooth, Moderate and Aggressive to match ground conditions and operator comfort.

Most Popular

Hayden Bale, the Case demonstrator and product specialist for Northern Europe, said: "The 1650M is the most popular model but we have a number of 2050M machines working across the UK.

"The Case 2050M dozer combines superior draw bar pull with engine efficiency and operator comfort. The FPT SCR engine and hydrostatic transmission are housed low in the chassis to provide class leading stability when working on gradients.

"The Ultra life undercarriage ensures cost of ownership is kept to a minimum. Built in Iowa USA, the Case dozer range will exceed your expectations," he said.

During a ten day demo, industry operators who tried out the 2050M dozer said it was

a real powerful machine and one they may consider purchasing in the future.

Contractors Impressed

Connall McManus from McManus Contracts in Derrylin, County Fermanagh, used the 2050M for shifting top soil and was suitably impressed.

He said: "I have to say the Case 2050M was a very nimble and quick dozer that worked very accurately. We used it to doze off a tip and stockpile top soil.

"It certainly had good power for the size of the machine and sat nicely lower to the ground. We don't currently own a dozer but using this Case 2050M has certainly given us something to think about in the future," he said.

Down the road in Tempo, civil engineering company Campbell Contracts also tried out the Case 2050M for size.

Brendan Campbell said: "We normally run a Komatsu 65 dozer. It was interesting to try the Case 2050M in our quarry pushing up topsoil.

"We found the 2050M was easy to run and it had plenty of power. The seven way blade was tricky to get used to. For our purpose I would have preferred the Case

dozer to have been on wider pads and fitted with a normal blade.

"However, all in all it was a good dozer indeed and was very operator friendly," he added.

Moving up to Donegal, Daniel Allen used the Case 2050M dozer also to level a tip and found the machine very powerful.

"I was very pleased with the dozer," he said. "We have a Cat dozer and found the Case to have more pushing power. The transmission was fast and very reactive. I used it for two days and found the Case dozer to be quite economical on fuel as well. Visibility for the operator from the cab was also very good," he said.

Concrete manufacturer W&J Chambers in Drumahoe used the Case 2050M to strip top soil from their sand pits.

Company director Alan Chambers said: "The feedback from our operator was very positive indeed. Driver comfort was well praised as was the power of the dozer and ease of use."

THE REDESIGNED CAB OFFERS FLOOR-TO-CEILING GLASS DOORS AND A CAB-FORWARD DESIGN TO PROVIDE MAXIMUM VISIBILITY WITH DIRECT LINE-OF-SIGHT TO THE BLADE EDGE



COLE GROUNDWORK CONTRACTS CONTINUING TO GROW ITS BUSINESS ACROSS THE UK AND EUROPE

When we first met up with Conor Cole just a couple of years ago he had big ambitions to significantly raise the profile of his Newry based company, Cole Groundwork Contracts, and as Plant & Civil Engineer's David Stokes reports, it is safe to say he has already exceeded those expectations.

His tally of awards since initially winning Plant & Civil Engineer's 'High Achiever of the Year' in 2017 has also grown. Most recently, he was named in the Greater Newry Awards as the 2019 Young Entrepreneur of the Year.

His groundworks and civil engineering company was set up in 2005 with just a handful of employees. Today, the company employs a large workforce across Ireland and the UK and more recently has undertaken projects across Europe, delivering services to some of the biggest named construction companies in the world including Bouygues UK, SIMEC Group, Green Bio Ltd and Enisca.

Work undertaken by Cole Groundwork Contracts cover a wide range of cutting-edge construction services with an emphasis on providing outstanding quality of service, total reliability and first-class value for money. They are involved in housing developments, commercial developments,



Schools and Universities, electrical generation sites, telecommunications, and within the Water industry.

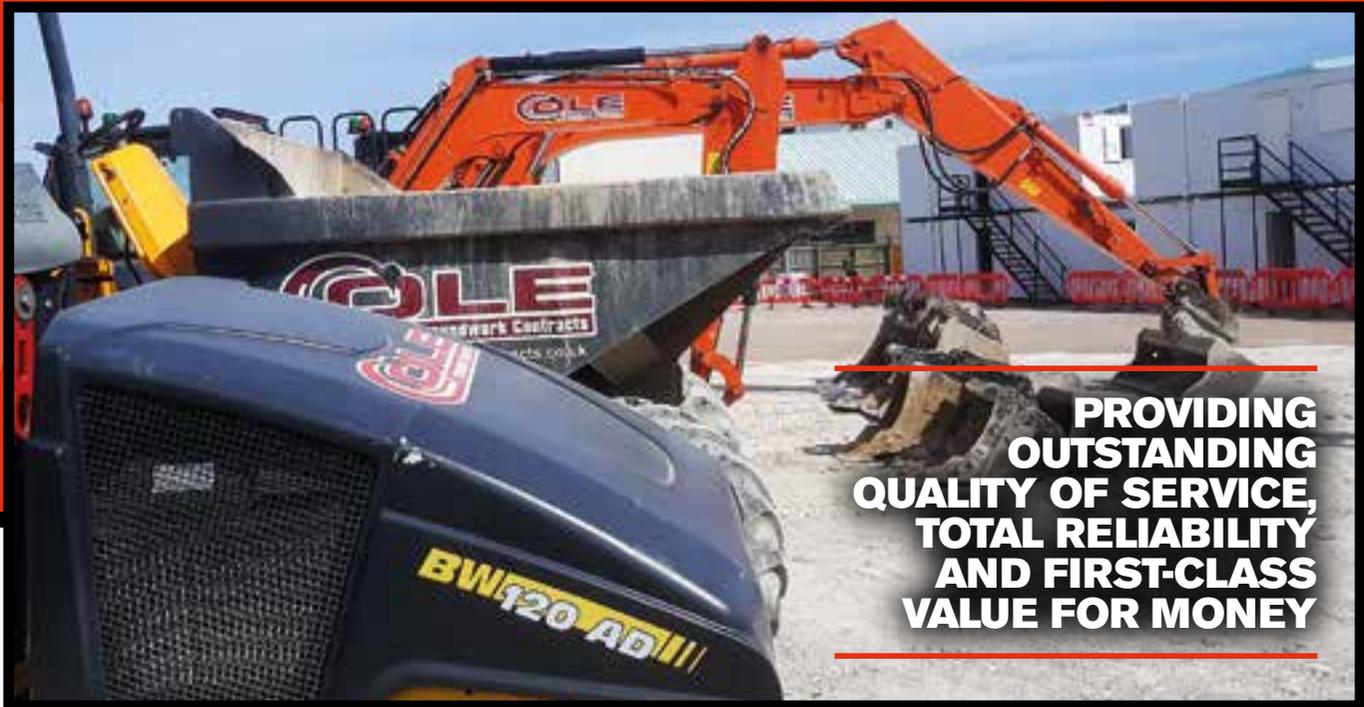
Projects

Currently, he and his team are involved in a prestigious project in the south of France where a new amphitheatre is being built on a 600-acre estate a few miles north of Aix-

en-Provence. The team recently completed the groundworks, including excavation and pouring of the foundations, steel fixing, tying and placing of ring beams and kicker walls in preparation for the steel frame to be erected.

The estate is already home to an extensive vineyard and state-of-the-art winery, an hotel, café and bookshop, as well as an inspiring collection of contemporary art





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and sculpture from some of the world's most sought after architects and artists.

"It was initially a 20-week project. We began in January and managed to finish our part of the work nine weeks ahead of schedule," says Conor, "although it wasn't without its challenges, not least because of its shape, size and depth through wet chalk ground."

He adds: "While we transported two van loads of our own equipment to the site near Marseilles in France, we had to hire out a lot more plant."

Cole Groundwork Contracts are also heavily involved in projects for Affinity Water outside London, and in the education and hotel sectors. "We are currently working on a project at Brighton University and are hoping to win a hotel contract in Cambridge."

Constantly Investing

With such an inflow of work, the company has been regularly taking on new employees and has also been investing significantly not just in new plant and machinery, but also in some of the latest software to monitor health & safety issues and to manage other aspects of the business.

Such progress is all a long way from when Conor first began as a sole trader.

"Today I have a strong, dedicated and very experienced and knowledgeable team around me, and I couldn't achieve what I have so far without their commitment to the business."



He added: "We strive to develop a highly skilled workforce, constantly headhunting for management and new people to add to and benefit our organisation. We show great interest in training our

staff to offer our clients a niche service within the construction industry."

Top Awards

Apart from the awards we have already mentioned, other accolades have included Top 40 Under 40 - The People's Choice (Business First Awards), and Ulster Tatler's Businessman of the Year. Winning Entrepreneur of the Year in his hometown, though, is a 'dream come true' for Conor.

"I was absolutely thrilled to win this award. It is lovely to receive such recognition in my hometown. The award may be 'Young Entrepreneur of the Year' - but this award is all about my team. The award is a testament to the hard work of all our team. I would not be in the position I am now if it wasn't for them."

Not surprisingly, Cole Groundwork Contracts has recorded significant growth over recent years, and this has seen its workforce grow and its global reach extend. With recent contract wins in Europe, the future clearly looks bright for the company which recently opened a state-of-the-art office in Co Down.





Tom Verner
Group Managing Director,
The Momentum Group

BREXIT HEADWINDS TEMPER MANUFACTURING MOMENTUM

The Northern Ireland manufacturing sector has always been resilient.

Through depressions, recessions and tough times it has always managed to roll with the punches and emerge more wily, stronger and with a thirst of excellence and success which can only be found on these shores.

The latest report from Manufacturing NI and Tughans shows just that.

It found a sector in good health but one struggling through the headwinds posed by the uncertainty surround the UK's divorce from the European Union.

Around two thirds of manufacturing companies surveyed said their businesses were in growth mode while a hugely impressive 87% said they had recorded profit last year.

That the sector has not only managed to grow but remain profitable in the face of Brexit says a lot about the tenacious nature of the industry, as there is no doubt it has thrown a spanner in the works of many a well-worked strategy.

They achieved that by focusing on innovation so as to stay ahead of the competition, whether it lies down the road or on the other side of the world.

To do that they have undoubtedly been investing heavily in research and development (R&D) to come up with new products, with new ways of making existing products or investigating new markets.

Scratch the surface of any successful company – in the manufacturing sector or any other – and you'll find a strong seam of R&D, one which is the key to sustained growth.

With that R&D comes the opportunity to claim one of the most generous and most under-claimed form of corporation tax relief in the UK; R&D Tax Credits.

They are designed by the government to encourage firms to invest in R&D which helped develop innovative products, processes and services.



Tom Verner, Managing Director of The Momentum Group; Mary Meehan, Deputy Chief Executive of Manufacturing NI; Stephen Kelly, Chief Executive of Manufacturing NI. Mr Kelly has called upon manufacturing firms to "do their homework" when it comes to tax incentives.

In essence, it's the government's way of making the UK a more competitive economy in the global market.

Most companies are eligible for them but particularly those in the manufacturing sector and, given the challenge which Brexit is posing, they could be particularly useful for those in Northern Ireland.

But it's worth taking some time to figure out which parts of your business are eligible for R&D Tax Credits and then to make sure you apply for them in the correct way.

Failure to do the former could mean you're missing out on a substantiable claim and failure to do the latter could see you spend longer than needed navigating the process or, worse, in trouble with Her Majesty's Revenue and Customs (HMRC) for mis-reporting.

Given the pressure which Brexit is putting on manufacturing companies, it is worth

considering whether your business is eligible for R&D Tax Credits and if so, getting the right support to make a strong claim.

At Momentum we work with manufacturing companies of all sizes, preparing R&D Tax Credit claims on their behalf.

We are a team of R&D Tax Credit specialists who include R&D technical analysts, chartered accountants and specialist business consultants with a deep understanding of R&D tax relief legislation and its application.

To date we have examined hundreds of companies across all industry sectors, identifying R&D activities with associated expenditure for the purpose of R&D tax claims.

Find out if you qualify for R&D Tax Credits, contact us on 028 9140 4030 for a confidential no obligation review.



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DENNISON JCB



Damian McCusker
Dennison Used Sales Manager

USED MACHINES AND FINANCE PACKAGES

Dennison JCB have been trading as the Northern Ireland and Co. Donegal JCB Dealer for Construction and Waste Plant machinery for just over a year. The award-winning team have gone from strength to strength with parts, servicing and new sales. With a focus on Used Sales, here Damian McCusker, Used Sales Manager at Dennison JCB, highlights the range of Used Plant available including the special JCB benefits which are available exclusively on these machines.

New machinery is not always affordable to everyone and in some cases, may not be what the customer needs. The JCB used market falls into two price ranges or grades: JCB Select Used & Approved and Used. JCB Select offers customers the finest pre-owned machines in the range. Many of the Select machines will be ex-demonstrators or machines that have been under-utilised. To qualify as a Select machine the machines have to be low in age and service hours with a fully documented service history and oil analysis check. JCB Select machines come with a six-month warranty – comprehensively covered for the first three months through JCB PremierCover, certified machine history, 100 plus point checklist, engine software updates, safety features installed and only serviced with JCB parts. When purchasing a JCB Select Used & Approved machine you can take advantage of the JCB Finance



package offering 0% interest HP over 2 years (Ts&Cs apply).

JCB Used

JCB Used machines tend to be older machines with higher service hours. Dennison JCB used machines must have a full-service history and maintained to JCB specification, which makes them a great alternative to a new machine.

Dennison JCB engineers carry out a range of checks which includes verifying the service history through the JCB network. A Dennison JCB Used check is carried out which includes checking booms, undercarriage, axles etc. and the cosmetic condition of the machine including seats, lights, mirrors and paint work.

Used machines are tested to ensure the machine works to the highest standard in all working conditions. All repairs will be noted on the service history and completed by our factory trained JCB engineers. For an up to date listing of our current used stock, call 028 9344 2222 or email UsedJCBsales@dennisons.co.uk.

Alternatively, check our Facebook page (@DennisonJCB) or our LinkedIn page (@DennisonJCB) which are updated regularly with Used stock availability.

Demonstration Machines

Dennison JCB have a dedicated demonstration area which is one of the few in the UK. This area allows our customers to trial machines on a variety of terrains with a purpose-built viewing area to watch the demonstration in action.

Dennison JCB also have a range of demonstration machines.

These include (correct at time of print):

- 406 Compact Wheeled Loading Shovel which is designed for optimum all-round visibility with an easy to adjust steering column and a new ergonomically designed joystick;
- 140X Excavator which delivers exceptional strength, comfort and control with ease;
- 220X Excavator which like its smaller brother (the 140X) has strength, comfort and

control in abundance resulting in greater performance;

- A 19C-1 Mini Excavator which is easy, quick and safe to use while not compromising on its toughness
- CT260 Vibratory Tandem Roller which provides improved fuel economy without reducing performance. It is easy to adjust on the job and transport to and from job-sites reducing transport costs.

The current demonstration machines will be added to our JCB Select stock. If you are looking for a machine that is not on our current used stock listing, contact us where we will source the machine you are looking for through the JCB dealer network.

So, what do you get at Dennison JCB, when purchasing a used machine? Consider this:

- You can have access to our service contracts – tailored to each customer's budget and machine requirement.
- On call and mobile engineer team with repairs and servicing carried out on site or at customers' premises.
- Our excellent aftersales team that ensure you get great servicing, quality parts at the best price.
- JCB Finance that can help us facilitate the best possible deal for you on the machine that you want.

Contact

Call or email the team today on 028 9344 2222 or UsedJCBsales@dennisons.co.uk to find out about our current Used Plant and our available finance offers.

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DENNISON JCB

Hill's Titan rock bucket helps maximise production in County Down

Demolition and crushing specialists Brick and Block Building Demolition Contracting Services has found a new lease of life on a longstanding rock breaking contract, thanks to a bespoke bucket from Hill Engineering.

The business, which was founded by John Minish over 30 years ago and operates out of Scarva near Belfast in County Armagh, Northern Ireland, has been breaking rock for railway ballast at a hard gritstone quarry in neighbouring County Down for the past 15 years

But earlier this year when the rock pieces started getting harder and larger, and tearing their own buckets apart, John and his men decided a new approach might be needed and acquired a brand-new mobile crusher.

Already the owner of several quick hitches from Hill Engineering, who are also based in County Down, he complemented this and a 35-tonne Volvo EC290 crawler excavator with a Hill Titan rock bucket made to his own specification, weighing 1,795kg and with a 1.46m³ capacity.



Hill's Titan heavy-duty buckets feature a double radius design which gives superior digging performance due to the low drag factor. This also means they fill quickly, meaning more productive digging and loading operations.

John is finding that his new Hill Titan bucket is not only lighter than previous buckets, it is also up to 12% larger, and is enabling the digger and crusher to process rock up to 15% more quickly than previously.

"It holds slightly more than its predecessors and there is also less downtime due to repairs. That is down to its excellent design and use of quality materials," he said. "Its ergonomics are also proving popular with the drivers to fill and empty. The previous bucket was too heavy for what it held."

And even though John has bought Hill Engineering equipment for the past 15 years, the specialist attachment manufacturers really surpassed themselves this time. "Their quote was very competitive and they have been super flexible, changing the specification several times to meet our particular needs, but still delivering on the supply date they originally gave," said John.

Hill Ireland sales manager William McIntosh said: "We were delighted to work with John to help him maximise his productivity with a larger-profile bucket and added extra wear parts to this. We at Hill Engineering have a customer-first approach to our products and we strive to ensure the products we produce are exactly what our customers require to get the job done."

Doosan Launch DA30 Stage V Articulated Dump Truck

Doosan Construction Equipment is launching the new DA30 Stage V compliant articulated dump truck, which has a payload of 28 tonne and replaces the previous DA30-5 Stage IV model.

The DA30 is powered by the new Scania Stage V compliant DC09 9 litre diesel engine providing 276 kW (375 HP) of power. The new Scania engine has undergone two years of very intensive testing in exacting construction and mining environments and has passed with flying colours. Whilst the core of the Scania engine, which has been responsible for their exceptional reliability, has not changed, the main difference in the new engine from their predecessors is the improved after-treatment system.

In 2018, the DA30 ADT was upgraded with a range of features including a new cab, a new self-levelling



front suspension and a new tandem bogie system which are all incorporated in the new Stage V model.

As well as these changes, the new Stage V model offers many more features - one of the most

eye-catching is a new design for the front frame and bonnet components on the trucks, created by the Doosan Design Team in accordance with the latest trends in the market. The new dynamic look this gives the

DA30 Stage V ADT reflects the high performance, power and robustness of the Doosan ADT range and aligns even more closely with rest of the market-leading range of construction equipment from Doosan.

Together with the visual changes there are a number of functional changes on the new ADT which improve safety, comfort and serviceability. These include a new positioning of the diesel and AdBlue tanks. The latter are now much lower than before, allowing the operator to fill both tanks whilst standing next to the machine ('ground level filling').

The greasing system has also been relocated to make it easily accessible from ground level. Space has been provided above the automatic lubrication system (which is standard) for additional grease cartridges and a filling pump. In addition, the transmission filters have been installed close to the greasing system, where they are also very easy to access. All of these systems are protected to ensure that any excess drops of oil/grease are collected and can be removed during service and maintenance.

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**CLOSING DATE for
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**NEW
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**SAFETY IN WASTE
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WASTE EQUIPMENT INNOVATION
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HOUSEHOLD WASTE RECYCLING
CENTRE OF THE YEAR
WASTES MANAGEMENT &
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EXCELLENCE**

**PLANT & CIVIL
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**PLANT, CONSTRUCTION & QUARRY
AWARDS 2019**

**GALA DINNER
THURS 21st NOV 2019
CROWNE PLAZA BELFAST**

Entries and nominations are invited from individuals or companies connected with the plant, construction & quarry industry, to enter in any or all of the categories listed

IN ASSOCIATION WITH

CIHT: Chartered Institute of Highways & Transportation • CITB NI: Construction Industry Training Board
QPANI: Quarry Products Association Northern Ireland • IMQS: Irish Mining & Quarrying Society • HAE: Hire Association Europe
IOQ: Institute of Quarrying • CPA: Construction Plant-Hire Association

SO HOW DO YOU ENTER?

**IT'S NOT AS COMPLICATED AS YOU MIGHT THINK.
IN FACT, OUR ADVICE AS ALWAYS IS: KEEP IT SIMPLE**

HERE ARE SOME POINTS TO CONSIDER:

The Award categories require short entries stating why you believe your company should win. Your entry will not be judged on presentation, but make sure it is easy for the judges to readily locate the necessary information.

Any factual information, such as operational, service, financial or personal details, to back up any claims expressed in your entry should be clearly and concisely laid out.

You don't have to be a big concern to enter. You could be an individual, a company with less than 10 employees or a large

national/international outfit. You will be judged on merit, not size.

The judges are looking for excellence, outstanding qualities or contributions, unrivalled service and innovation, individuals and organisations who have gone the extra mile – so demonstrate all of that in your entry; make it stand out from the rest! If you have faced any difficulties or obstacles in achieving your goals, make sure you note it on your entry.

If you need to provide any additional information to support your entry, keep it as brief and to the point as possible. Feel free to send customer testimonies to support your entries.

ALL ENTRIES/NOMINATIONS SHOULD BE RECEIVED BY 28th September 2019

**THE CATEGORIES ARE AS FOLLOWS:
Tick the categories you wish to enter**

Hæ eHa

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Plant Hire Company of the Year

This Award will be presented to the organisation which offers an extensive portfolio of high quality products, flexible hire options, and respected customer service policies. Entrants should outline how their company provides a level of plant hire expertise that puts them ahead of the competition, eg: product knowledge, distribution network, prompt delivery and collection, equipment options, cost effective hiring and any unique services available. Customer testimonies may also be submitted.

CLE

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Innovation of the Year

This category is open to all civil engineering, construction and quarrying companies who have introduced, created or invested within their operations innovative solutions that make their activities more efficient, more profitable and more successful. The innovation can range from the latest equipment and facilities to cutting edge technology or environmental solutions.

DENNISON JCB

JCB

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Excellence in Customer Service

This category is open to all companies in the construction, quarrying, and plant & machinery sectors, including dealers, equipment suppliers, service and maintenance agents and other associated businesses. Entrants need to demonstrate a high level of customer care and support. Customer testimonies will be accepted.

Close Brothers
Commercial Finance

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Construction Company of the Year

This Award will be presented to the company or organisation who has demonstrated over the past year involvement with major or specialist projects throughout the island of Ireland, Great Britain or worldwide which illustrate high levels of skill within project management, innovation, specialist projects. Customer testimonies may also be submitted.

sponsor to be confirmed



Construction Fleet of the Year

This award will be presented to the company operating an outstanding fleet of vehicles ranging from tippers to readymix trucks. Judging criteria will be based on appearance, quality, maintenance programmes, driver or operator efficiency, skill and professionalism. The category is open to all those involved in the construction, quarrying and associated sectors.

sponsor to be confirmed



Safety in Waste

This award will be presented to the organisation that can demonstrate safety management systems leading to zero accidents. Criteria to include: safety policy relative to the size of the company. Well developed training needs analysis and training provision. Risk assessment procedures. Demonstration of capital investment on the ground for safety. Judging will include a site visit on a predetermined date.

sponsor to be confirmed



Environmental Initiative

From Innovative resource management and environmental impact mitigation to biodiversity projects, ethical or charitable initiatives and more, this award recognises those effecting real change from across the environmental and sustainability spectrum

TEREX TRUCKS



Sleator Plant
www.sleatorplant.com

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Quarry of the Year

This category is open to individual working quarries, whether hardrock, sand or gravel, where the operator demonstrates safe working practices, the highest levels of pollution control, sustainability, biodiversity, and operational efficiency, while offering a strong portfolio of products and services. Customer testimonies can be submitted.

sponsor to be confirmed



High Achiever of the Year

This category is for the individual or company that has achieved outstanding success such as in sales, contract wins, company expansion / development or other areas of business over the past 12 months.

It is open to any individual or company currently active in the construction, civil engineering, quarrying and plant & machinery sectors. The winner must highlight the area in which they operate, level and type of achievement, and outline any relevant factors or reasons that contributed to that success.

Ulster Shredders

sponsored by



Wastes Management & Environmental Excellence

The Award will recognize individual excellence within the resources and Wastes Management industry, through best practice and innovation across a range of commercial and public sectors.



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Plant Manager of the Year

This category is open to individuals who have delivered outstanding results in terms of efficiency, safety and health when dealing with all aspects of heavy (plant machinery) used in the construction industry. They will have worked on projects throughout Ireland, overseeing the important business of buying, hiring or transporting (often huge) pieces of equipment according to strict rules and regulations, and will be involved in supervising & motivating staff on a daily basis.



Sleator Plant
www.sleatorplant.com



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Construction Project of the Year

This award is for the company, team or individual who has demonstrated exceptional skills, expertise, design and innovation on a construction project, be it a building, a road, a utility facility or any other similar undertaking throughout the island of Ireland, Great Britain or worldwide.



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Student of the Year

This category is open to students working in a civil engineering environment or other associated activities within the construction sector. The winning student must demonstrate a high degree of dedication and commitment to the industry, outlining why he or she chose this particular career path and detailing their current and future goals. Employer references can be included in this entry.



Groundforce
Specialist Construction Solutions

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Civil Engineering Company of the Year

This Award will be presented to the organisation who can report on successful involvement within a wide variety of civil engineering projects including planning, construction and maintenance of fixed structures or public works throughout the island of Ireland, Great Britain, or worldwide. The information provided should demonstrate high levels of skill within project management, procurement, innovation and specialist projects. Customer testimonies may also be submitted.



sponsored by



Health & Safety Award

This Award will be presented to the company who demonstrates best health and safety management practices in the plant, quarry and construction industries. The company must have implemented detailed health and safety measures that incorporate a high level of management and workforce involvement. The company must demonstrate how it assigns H&S responsibilities and maintains competence across its organisation. Customer testimonies may also be submitted.

sponsor to be confirmed



Household Waste Recycling Centre of the Year

The Household Recycling Centre of the Year will have successful and effective day to day operations that can be measured and seen. Entrants will need to show how the centres have been used to increase recycling streams and provide an enhanced service to its users. Other factors could include planning, design, operational and cost aspects of the site. The centres are likely to be well run with excellent interaction between centre staff and users with a high standard of health and safety a prerequisite.



sponsored by



Specialist Contractor of the Year

This category is open to contractors involved in any sector of the industry, including Civil Engineering, Highways, Quarrying, Utilities, Construction and Groundworks.

The award will be presented to the contractor who has successfully demonstrated or employed specialist, individual, unique, and/or innovative skills on any project or scheme within the last 12 months.

sponsor to be confirmed



Waste Management Team of the Year

People are at the heart of delivering the products, processes and services needed to deliver high performance in waste and resource management. This award recognises any team that has shown a collective commitment to go above and beyond what is expected in order to deliver top results from a waste and recycling perspective.



sponsored by



Special Recognition Award

This award, for which nominations are now open, will be presented to the individual who has been outstanding in his or her service to the industry, whose personal achievements, accomplishments or initiatives in the construction, quarrying or plant & machinery sectors deserve recognition.

available to sponsor



Waste Equipment Innovation

This award recognises equipment manufacturers operating in Ireland and the UK who have created innovative solutions that make waste and recycling operations more effective and efficient.

ENTRY FORM

VISIT OUR WEBSITE www.plantandcivilengineer.com AND FILL IN YOUR DETAILS & SEND ENTRY ONLINE

You can also submit supporting corporate material – brochures etc, including photographs of projects, services or products.

You can enter any number of categories but bear in mind, it is left to the judges opinion to reallocate any entry which may be more suitable to another category or an additional category.

The judges' decision is final and no correspondence will be entered into. All entries are private & confidential. The winner will remain confidential until the event.

All entries/nominations should be received by 28th September 2019 via online submission at www.plantandcivilengineer.com or email to justin@4squaredmedia.net or post to 4SM (NI) Ltd, 12 Main Street, Hillsborough, Co Down BT26 6AE

PLANT & CIVIL engineer

PLANT, CONSTRUCTION & QUARRY AWARDS 2019

You can't win if you're not in. The Plant, Construction & Quarry Awards, hosted by Plant & Civil Engineer, is set to be the biggest event in the Irish industry's calendar.

Book your table immediately to avoid disappointment

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PLANTWORX 2019 PROVED TO BE A TRIUMPHANT SHOW

The 4th biennial Plantworx Construction Machinery Show, incorporating Railworx, hosted by the CEA (Construction Equipment Association), fell victim once again to monsoon weather conditions, although the show was blessed with a brief respite on the middle day of the event.

However, the rain did not 'stop play, and hardy visitors braved the elements and flocked through the gates to see the plethora of brand-new equipment and products on display, at the show's new home at the East of England Arena, Peterborough.

One visitor via twitter said, "We are not made of paper in our industry - a bit of rain won't put me off" – and this proved to be true. The Plantworx team revealed that footfall reached in excess of 13,700 over the three-days of the event, despite the biblical conditions.

The show was 20% larger than the 2017 event and was home to more than 450 exhibitors, including Railworx exhibitors, and was the biggest Plantworx to date. The new 'all weather' venue was a big hit with both visitors and exhibitors alike – and the Plantworx team received a host of positive comments via the telephone, email and social media platforms.

New initiatives

This year's event was packed with new initiatives and innovations which represented the current demands in the ever-evolving



construction sector. The show saw major launches including the new CEA and HMG commissioned Sector Report.

The CEA and Datatag also launched the latest incarnation of the CESAR Scheme – the innovative Emissions Compliance Verification (ECV) functionality. The CESAR ECV is an invaluable 'bolt-on' product which complements the existing CESAR Security System and additionally allows quick and easy verification of a machines emissions category.

Railworx, which was co-located with Plantworx, was a welcome addition to the event. It was the first time that rail has had such a significant presence at the show, and - with CP6 and major projects such as HS2 - it reflected the growing importance of rail infrastructure to the UK construction industry.

New zones included the Classic Plant Arena where the show celebrated the construction

industry's heritage. More than 20 items of classic machinery were on display which included vintage JCB and Caterpillar machines in addition to classic Perkins Engines.

Also new was the Get SET (Skills, Employment, Education and Training) Zone, which proved a popular destination for visitors who were looking to explore job openings, training courses, apprenticeships, get support and advice about skills education, employment and training opportunities across the rail and construction sectors.

The Department of International Trade's Export Hub truck came to Plantworx for the first time this year, bringing DIT's own rail, infrastructure and mining teams along - as well as colleagues from Kazakhstan, Mongolia, Russia, and Ukraine. It also hosted UK Export Finance and colleagues from DIT Latin America.

Mark Smith, Department for International Trade's, Mining Sector Manager for Infrastructure, Global Trade and Investment, said: "The Export Hub and DIT stand generated strong interest from UK equipment and service companies looking to do business overseas and learn more about the DIT support available. And our buyers from Kazakhstan, Mongolia, Russia and Ukraine as well as DIT's commercial officers were impressed by the range and number of participating companies, with a number of good meetings, and opportunities to follow up on. We look forward to Plantworx 2021!"





CLOSE BROTHERS COMMERCIAL FINANCE CONSTRUCTION SMES SHOWING CAUTIOUS CONFIDENCE

Despite the enduring ambiguity around Brexit, construction SMEs across Ireland and the UK are cautiously confident about the future according to recent research by Close Brothers.

The study, which asked SME decision makers for their view on several business topics, found that more than half of companies working in building and infrastructure believe that the economy is set to grow, and a further quarter believe that although the path to prosperity may be slow, the worst is behind us. Just 7% believe there will be a downturn in the economy.

It's heartening that firms are feeling positive about the economy. The buoyant construction sector has the most optimistic view of long-term prospects, suggesting they believe that the UK and Ireland will continue to be a strong place to trade and work.

Business sentiments are also encouraging. Considering the next 12 months, 90% of construction companies said they are feeling positive about their own futures. Of these, 45% said they believe they will expand and 45% expect to stay the same.

Construction firms are sending a strong message to the market that they are still open for business and while our survey did not explore all of the reasons behind this progressive outlook, there are likely to be several factors involved.

Firstly, there has been significant investment here in Ireland, with new infrastructure being built in Cork, Belfast and many other areas between. The opportunities this has provided for construction firms has enhanced job prospects for many, enabling the sector to thrive.

Another is that SMEs working in construction and related industries are often asset rich. This means they can release funds against assets, such as equipment, plant and machinery, and property, giving them additional flexibility. Asset finance solutions can be reassuring when creating strategic plans and this goes some way to explaining why funding through these kinds of finance options are often used more during turbulent periods.

Either way, SMEs should reinforce this positivity by ensuring they are ready for any Brexit outcome. Putting sustainable finance, trade and other critical measures

in place can inform decisions and empower companies to thrive regardless of wider geopolitical changes.

Our Managing Director at Close Brothers Commercial Finance, Ciaran McAreavey, recently shared a similar message about working with small and medium sized firms in Ireland. "We're confident about the future and will adapt whatever the wider political and commercial outlook," he said. "It's important to remember that SMEs are the experts when it comes to their own work. These businesses underpin the Irish economy and deserve support and funding that matches their resilience."

Close Brothers is merchant banking group in the UK and Ireland which provides lending, deposit taking, wealth management services, and securities trading. Close Brothers Group plc is listed on the London Stock Exchange and is a member of the FTSE 250.

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Pressure (bar)	210
Build Height (mm)	425
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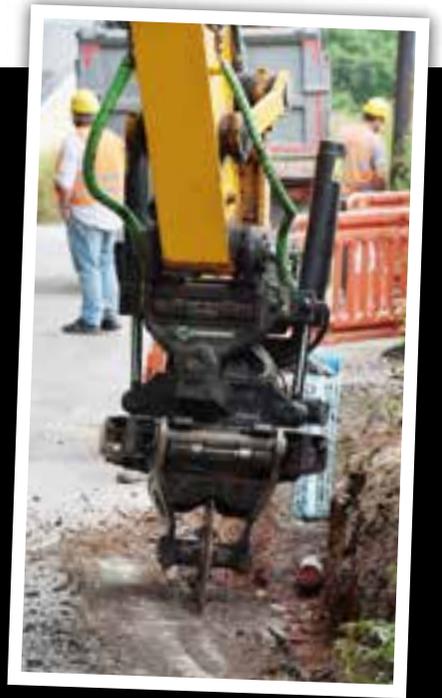
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STEELWRIST TILTROTATOR MAKES A BIG IMPRESSION ON COUNTY CORK CONTRACTOR



When you go from working without to working with a tiltrotator statistics show that you will never go back, and so it is proving to be with Cathal O'Sullivan from Healey-Rae Plant Hire in County Cork, as Plant & Civil Engineer's David Stokes has discovered.

Based at Kilgarvin, Healey-Rae Plant Hire is one of the country's leading contractors, having completed many successful projects on behalf of a range of clients including county councils and Irish Water, and last year they acquired their first ever tiltrotator – a Steelwrist X18.

According to Cathal, it is one of the best investments they have ever made. "The versatility of the Steelwrist X18 is just so amazing," he says. "I can't speak highly enough about it."

So, what has got him 'hooked' on the tiltrotator? "We have it fitted to a JCB JS145 excavator and the tasks you can easily and quickly accomplish with it are unbelievable. We can do so much more in so less time," explains Cathal. "It has transformed the way we operate. It is absolutely brilliant. It has turned the excavator into a truly versatile machine and has made a big improvement to my working day."

Steelwrist tiltrotators are made from cast high tensile steel, making them lighter but keeping the strength. Other manufacturers cast using a type of ductile iron; the disadvantage of this is it is more brittle and very difficult to weld, all be it cheaper.

"Initially, some were a bit concerned about the durability of the Steelwrist X18, but having been using it for over a year now we are more than satisfied with its reliability and performance."

The X18 tiltrotator is currently being utilised by Healey-Rae Plant on a watermain pipe laying contract. "With the tiltrotator we can reach areas and carry out tasks in limited spaces that we wouldn't be able to do with



a more conventional machine, and with less manpower. The difference is frightening!"

Keeping in Control

So, were the controls easy to master? "No," admits Cathal. "It was a sharp learning curve. I have been operating machines since 1990, so being confronted with this new technology for the first time was a bit daunting, but I watched a few videos on YouTube and read up a bit about it, and once I got familiar with the controls it all became second nature."

The X18 comes with Steelwrist's latest generation, highly advanced, innovative and operator friendly XControl system which uses well-tested software for hydraulic valve control to provide superior drivability and feeling.

As Cathal discovered, the XControl G2, the most versatile on the market, makes life much easier and safer for the

operator – and it also helps to reduce fuel consumption. With XControl G2 all settings and changes to the system are made on a 3.5-inch touch screen with clear and logical menus. It is also easy to set different profiles for different drivers, work situations or work tools.

Amazing Gripper

Another feature that appeals to Cathal is the integrated gripper which he describes as 'an amazing tool.' Says Cathal: "We were advised not to buy the tiltrotator without the gripper, and it was very good advice."

The gripper is essentially an extra worker, and it's always there when you need it; it can be used to pick up and move heavy objects without the need for bringing in additional lifting equipment. "You can lift up virtually anything with the gripper – pallets, pipes, anything that needs shifting to a new location," says Cathal.

The X18 is also equipped with one extra hydraulic outlet where you can connect hydraulic attachments such as grabs. The extra outlet is always available and independent from the gripper cassette.

Exceptional Support

While the X18 was supplied by ECI in Cork, the team from Steelwrist provided what Cathal says was 'fantastic advice and support.' He adds: "Pat Bulcock from Steelwrist certainly went the extra mile in making sure everything was set up and working as it should. He provided me with excellent advice on how to get the best from the X18, and I am really glad I followed through on what he had to say."

Today, tiltrotators, of course, are no longer new to the UK or Irish market, although it has taken more time than it should for the benefits to be appreciated. For growing numbers of contractors, they have become an increasingly 'must have' flexible and versatile piece of equipment. As Cathal says, "I can't ever imagine my working life without it now."



THE X18 COMES WITH STEELWRIST'S LATEST GENERATION, HIGHLY ADVANCED, INNOVATIVE AND OPERATOR FRIENDLY XCONTROL SYSTEM WHICH USES WELL-TESTED SOFTWARE FOR HYDRAULIC VALVE CONTROL



tiltrotator

OPERATOR SEES PRODUCTIVITY DOUBLE WITH ENGCON



Working on a number of major infrastructure projects across Ireland, operator Richard Collins knows more than most the importance of flexibility in excavation work. It was this need to drive even greater productivity that first led Richard, of Collins Plant Hire and Groundworks Services, to invest in a tiltrotator.

Having initially trialled another manufacturer's tiltrotator on his Hyundai HW140, Richard was looking for a unit which would deliver even greater cost and operational efficiencies. Richard's search led him to Engcon, the world's leading supplier of tiltrotators, who helped him find the right piece of kit for his Hyundai – its innovative EC219 solution.

Richard explains: "My work is predominantly focused on infrastructure upgrades, such as roadworks and large-scale civil engineering projects. As such, a lot of the work I do takes place in incredibly confined spaces, like the sidings of busy motorways for

example, so I need my excavator to be as flexible and responsive as possible.

"I've been aware of the benefits of tiltrotators for some time, but Engcon is the first manufacturer to supply me with a unit which enables me to really explore their full potential. The productivity benefit of the EC219 was particularly brought home to me in a job I completed in County Cork.

"I was working as part of a team doing some major drainage operations in the region. Before the tiltrotator arrived on site, the crew were clearing between 80 and 90 metres per day. After we started using the excavator with the tiltrotator installed, we more than doubled that to over 200 metres a day – dramatically reducing the amount of time we needed to spend on site and making valuable savings on labour."

Richard's EC219 came with EC-Oil, Engcon's innovative, but simplistic, system for the hydraulic and electrical connection of hydraulic tools and equipment. Designed for maximum operational safety in demanding

environments, EC-Oil is perfect for an operator like Richard, who's work takes him everywhere from roadside to electrical sub-stations. The tiltrotator also has DC2 controls, Engcon's highly-efficient proportional control system, and integrated ePS, enabling Richard to see the exact excavation area via the machine control system's display in the cab.

Richard concludes: "I know some operators are reluctant to invest in a tiltrotator, especially those working solo. However, I can honestly say that the EC219 is worth every penny I spent on it.

"The operational streamlining it has helped me achieve has enabled to complete work faster, to an even higher standard than before. It's a really phenomenal kit, and I'd urge any operator reading this to make an appointment to try one out!"



Richard Collins



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A LOOK BACK AT DEMO EXPO 2019

The National Federation of Demolition Contractors (NFDC) and Institute of Demolition Engineers (IDE) recently held the 4th Demo Expo at the Herts County Showground near St. Albans.

The only show dedicated to the demolition industry saw major machinery manufacturers and attachment dealers showcasing their latest innovations for the industry.

The UK demolition industry is a world leader in the use and innovation of plant and equipment with many of the major manufacturers choosing Demo Expo to premier their latest creations on these shores.

Major manufacturers such as Hitachi UK, JCB, LiuGong, Marubeni Komatsu and Molson Group alongside world leading conversion specialists Kocurek represented

the market leading manufacturers with a range of excavators and loading shovels of all sizes, including versions showing standard and high reach equipment.

For those wanting something smaller, demolition robot specialists Gnat was again attending Demo Expo with their range of equipment designed to demolish structures inaccessible to larger machines.

Crushing and screening equipment was also on display at the show, from buckets through to some of the larger mobile screens and crushers.

The range of attachments available to the UK demolition and recycling contractor is huge and Demo Expo 2019 had the best of the best present at the show - featuring everything from hitches to hammers, crusher buckets to concrete crackers. The huge range of leading

suppliers such as Inmalo, Blue Group, LDH, ECY Haulmark, BPH, Kinshofer, Willow Hire and Worsley Plant had examples from their ranges on both static display and in action inside the dedicated processing area.

The three-day event also hosted a variety of other trade stands allied to the demolition industry, including leading finance and commercial vehicle suppliers, wear part and bucket manufacturers and PPE specialists.

On the Saturday of the event, Demo Expo opened its doors for demolition operatives and their families, and anyone with an interest in finding out more about working in the demolition industry. A range of free entertainment was on offer, including soft play, an inflatable obstacle course, face painting and balloon modelling.



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Lagan Investment's acquires majority stake in GB business



Pictured here are Kevin Lagan and his two sons Peter and John (L-R) at the launch of Lagan Investments.

Lagan Investments, the investment vehicle formed following the sale of Kevin Lagan's building materials business to Breedon in 2018, has acquired a majority stake in Frame-Tech Structures Ltd, a manufacturer of timber frame structures based near Huddersfield, West Yorkshire, for an undisclosed sum.

Founded in 2008, Frame-Tech has a leading market position in the North of England, manufacturing and installing in excess of 1,000 residential units pa. The company employs around 60 people.

The acquisition will provide excellent synergies with the

Lagan's FastHouse operation, based in Limavady which has grown its market share considerably across Ireland in the last year with a sales pipeline in excess of £20m.

Both companies are well placed to benefit from the UK and Ireland's increasing demand for new housing stock, notably as developers and contractors move towards using more modern methods of construction including off-site manufacturing.

Comments Peter Lagan, director of Lagan Investments: "Given the ever-increasing demand for off-site manufacturing, and the need to address the shortage of homes throughout the UK and Ireland, we intend to collectively grow our market share and consider further acquisition opportunities."

Standards are great - everybody should have their own

Is it not fantastic when telephone cables, computer cables and electric cables of all sorts do not fit to each other?

It gives you as a customer the great joy of buying expensive adaptors or cables and collect them in vast numbers with the hope of being able to use them again sometime in a distant future. That is, of course, if you do not lose it and have to buy a new one, writes Stefan Stockhaus, Steelwrist's CEO.

And just think of all the efficient time spent in meetings trying to get someone's computer to work with a projector. This is time efficiently spent that creates employment and happy meeting participants in thousands of meetings - every day. But more important - just imagine the ridiculous amount of money a company like Apple can make each year just by locking their customers into their own proprietary connectors? Customers love it - or NOT?

Now what does this have to do with earthmoving machinery and excavators in particular? Well, for those of you who are interested in excavator work-tools/ attachments and visited BAUMA a few weeks ago, could not have missed the

heated debate about compatibility and quick couplers with oil connections.

It has for quite some time been evident that Symmetrical (S-type) quick couplers gain ground on a global scale. It also happens to be the one standard that is open and not controlled by one single manufacturer. As it is also compact, robust and lightweight it makes it even better. The advantage for the excavator owner is obvious when it comes to break out force and fuel consumption but equally important that work tools can be shared, they always fit and the way of operating them is the same resulting in a higher safety.

However, with the shift from S-type to SQ- or OQ-type things might change. As both SQ and OQ are fundamentally based on the dimensions of S-type two different viewpoints emerge.

Oilquick is today pushing hard to get dealers to commit to their "Clean System" approach whereby only Oilquick quick couplers should be used with Oilquick adaptors. By introducing Enigma pins, i.e. Front Pin Guide, with the sole purpose of preventing compatibility, it is a clear step to lock customers into a proprietary solution.

The fact that there are already customers out there continuously switching between SQ- and OQ- work tools does not really matter, since this is not a technical problem but rather a political problem.

We at Steelwrist fundamentally believe that customers do not want to be locked into a solution where they are unable to change supplier later on. We also believe that one of the reasons for the success of the S-type is that it is a well defined and standardized interface that is "Open". The alternative to "Lock in" is of course "Open" and we already know that there are more manufacturers that are about to make themselves compatible.



Stefan Stockhaus, Steelwrist's CEO.

Our approach will instead be to work towards a well defined standardized interface including oil couplings. We therefore invite manufacturers who are thinking about quick couplers with oil connections to contact us as we are now planning to make the interface open also for other manufacturers.

At the end of the day we think that open standards is in the best interest of the excavator owners and operators. The important thing right now is to make customers aware of the reality so that they can take their own initiated decision. Open or locked in - your choice.



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ROTOTILT HAS LOWRY BUILDING & CIVIL ENGINEERING'S VOTE

Slowly but surely tiltrotators have become the 'must have' piece of equipment for a wide range of contractors across Ireland and the UK. Among its growing army of fans is Lowry Building & Civil Engineering Ltd., as Plant & Civil Engineer's David Stokes has been finding out.

Lowry Building & Civil Engineering Ltd has a long-established history stretching back to 1961 when the company was originally founded in Castlederg, County Tyrone. Since then it has grown steadily to become one of the leading medium sized contractors in Northern Ireland.

Today, the company operates from modern offices in the centre of Castlederg and directly delivers complex, multi-discipline projects including highly specialist works. It also operates a large, modern, fully equipped plant fleet.

One of the latest additions has been a Liebherr 922 excavator which, like three other of the company's excavators, has been fitted with the latest R6 Rototilt tiltrotator, supplied by dealers Cullion Plant in Dungannon.

For the uninitiated, the Rototilt system, described as one of the smartest on the market, literally transforms an excavator into a flexible tool carrier that opens the



way for new types of jobs. Not only that, you can get them done faster and with less manpower – and that's exactly what Lowry Building & Civil Engineering's Ian Lowry discovered a couple of years ago, which is why he now has four Rototilts in his fleet.

"When we were initially considering investing in a tiltrotator, having seen them operating at the Plantworx exhibition about three years ago, we carried out

some research into what was available; Rototilt was rated one of the best on the market, and we haven't regretted our decision," says Ian. "Our operators can't imagine life without them."

Those sentiments are echoed by Cullion Plant's Aiden O'Neill: "When we began selling tiltrotators four years ago, they weren't very well known, but today we are definitely seeing a big increase in sales as operators become more appreciative of the benefits."

Oil Filled

So, what sets the Rototilt brand apart? Explains Aiden: "It's quite simple. Rototilt tiltrotators are oil filled, rather than grease as used in other makes."

Oil has special properties that are particularly beneficial for tiltrotators. Cog contact in a worm gear is characterised by significant friction, which produces heat. This heat is dissipated by the oil to the entire rotor housing, which is something that does not occur with grease. It's also important to get rid of abrasive particles. By changing the oil every 1,000 hours or so, wear is significantly reduced.

Back to Ian Lowry. "Once the tiltrotators are properly set up on the machine, you can't go wrong. In addition to having one fitted to the Liebherr, we have others matched up with three Hitachi machines in the fleet, a ZX130, a ZX140 rubber duck and a 65."



Easy Controls

So, are the Rototilt controls easy to master? "Put it this way," says Ian, "the new R6 model on the Liebherr is being operated by one of our drivers who has just turned 70. He managed to master the controls within a week; once you do that, it becomes second nature."

The Liebherr is currently working on the development of a new factory for Telestack in Omagh, along with another tiltrotator-fitted machine, and adds Ian: "The site manager says the Rototilts probably saved him at least a week's work on the scheme, thanks to their versatility. To illustrate: one of the machines was used to dig out foundations for an office block as part of that project. The driver didn't have to move the machine more than two or three times to do so as he was able to keep the excavator on the one spot to carry out much of the work.

"The Rototilts do represent a big investment, but I reckon they probably pay for themselves within two or so years because you are saving on time, on manpower, on fuel and on machine usage. As a bonus, health and safety on site has been improved as you

don't need men to go down into trenches to dig around pipes or cables; the tiltrotator takes care of that because its flexibility which means it can easily reach those awkward locations."

iDig Compatible

Lowry's are also trialling an iDig, which is a relatively new real time grade control tool designed for excavators and now compatible with Rototilt tiltrotors. The iDig guidance system gives better accuracy which reduces over-cutting and rework, it saves fuel, allows you to dig slope without a grade laser – and it can pay for itself in two months or less!

With iDig, sensors are directly fitted to the boom by magnets (no weldings), connected to the cab panel by radio (no wiring), and directly powered by the sun (no recharging). Grade calculation is immediately shown and information given to the operator by a coloured LED indicator.

"We are getting good feedback from Lowry's and other potential customers for the system. We took the iDig on board a couple of years ago, but now that it can be integrated with the tiltrotator interest is definitely growing," says Aiden.



THE ROTOTILT SYSTEM, DESCRIBED AS ONE OF THE SMARTEST ON THE MARKET, LITERALLY TRANSFORMS AN EXCAVATOR INTO A FLEXIBLE TOOL CARRIER THAT OPENS THE WAY FOR NEW TYPES OF JOBS



HAE MEMBERSHIP GIVES DIAMOND BLADES BUSINESS A CUTTING EDGE

The UK construction industry brings in billions of pounds of new work every month. The sector relies on tool and equipment hire companies to deliver the kit needed to undertake these projects, so how can suppliers gain a competitive edge in such an important marketplace?

Established in 2003, Mexco has already grown from its Cornwall base to become one of the UK and Ireland's largest privately-owned suppliers of diamond blades, core drills and tile drilling products to the construction industry. To help underpin its ongoing success story the company joined Hire Association Europe (HAE) in 2018 – and has never looked back.

Mexco's range of blades can cut through most construction materials, including asphalt, concrete and granite. Becoming a member of a trusted organisation like HAE helps boost brand awareness as well as reassuring those hiring the equipment for construction and demolition jobs that it is of a high quality, reliable and meets stringent industry standards.

HAE membership also gives access to products and services covering all aspects of hire, including terms and conditions, safety checks, publicity, equipment, responsibilities and general day-to-day requirements. It's a one-stop shop for hire companies hoping to forge new business partnerships and for guidance on the issues and trends that impact on members.

How has HAE membership benefited Mexco? As well as providing operational resources and business opportunities with other members, HAE



Dean Hussey, Mexcos Sales Manager.

membership offers hire firms the opportunity to gain recognised accreditations such as SafeHire Certification and Hire Industry Trusted Suppliers (HITS) status.

SafeHire Certification proves competence in safety, health, environment and quality and meets client demands for high standards of service, but it also demonstrates having a well-trained workforce to support customers as fully as possible. The HITS scheme is designed to help hire and rental organisations gain access to reliable, due diligence information secured by HAE and EHA from supply chain members and seeks to

provide an industry standard to prove competence.

Accreditations

Achieving HITS status was the highlight of Mexco's first year of membership, according to sales manager, Dean Hussey, who said: "HITS accreditation emphasises that our diamond tools are performing well and meeting the stringent requirements of the tool hire industry, which means you can be assured of quality and product longevity."

The ethos at Mexco is to exceed customer expectations by providing diamond cutting and drilling tools that give the best possible performance at the

right price. Displaying the HITS logo is a hallmark of quality in training, safety, environmental, R&D, production processes, data security and other related areas.

Conclusion

Mexco is going from strength to strength and is exploring new routes to market, confident that the benefits, customer confidence and practical assistance provided by its association with HAE will help the company's expansion plans.

Information on how to gain SafeHire Certification and Hire Industry Trusted Supplier status can be obtained from: www.hae.org.uk or www.eha.org.uk.



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HAE EHA Conference Returns to Holywell Park, Loughborough Tuesday 1st October 2019

Join us this year on Tuesday 1st October as the HAE EHA's annual conference returns to the state-of-the-art facilities offered by Holywell Park Conference Centre, located at Loughborough University.

This one day conference is jam-packed with exciting features designed to provoke and inform new ideas amongst hire business leaders. With trade stands available and networking chances a plenty, it really will be a fantastic opportunity to take a glimpse of the future and find out what new opportunities could lie ahead for business growth.

Holywell Park Conference Centre, Loughborough, LE11 3GR

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hire news

Genie boom and scissor lifts add to premium quality rental fleet

Leading national plant and vehicle hire provider, GPT, continues to express optimism in the recovering Irish economy, backed by continuous investment in new, premium quality equipment. This year has already seen the purchase of over 200 items of plant and equipment, following on from a similar investment in 2018.

This substantial investment has included many Genie products – in both boom lifts and scissors lifts. Recent deliveries included Genie Xtra Capacity (XC) SX-125 XC, S-85 XC and S-65 XC models, as well as Genie articulated Z-62/40 and Z-80/60 units.

"We are extremely pleased to be one of the first companies to introduce these new Genie XC boom lifts to customers in Ireland," stated GPT Operations Director Enda Eiffe. "Their arrival over recent weeks is another example of the significant investment GPT is making that adds value to our broadening aerial offering.

"With these new machines, customers now have the choice of the optimum mix of standard and dual capacity Genie XC models with increased lift capabilities to support new application opportunities and new working trends adapted to rising demand in a positive local market context."

He continues: "With their heavier lift capacity and excellent below-grade reach that further expands their field of application, we are expecting our new Genie XC models to be a popular choice among



Pictured (l-r) outside the GPT Dublin offices are Enda Eiffe, Operations Director, GPT, Craig Duffy, Genie Territory Sales Manager Scotland & Republic of Ireland, and David O'Neill, Branch Manager, GPT Dublin taking delivery of the latest additions to the ever-expanding fleet of access equipment. Models shown are two Genie Z-62/40 units as well as a Genie SX-125 XC boom lift.

customers for civil engineering, steel fixing and facilities maintenance applications.

"By increasing productivity, they will find that they can do more using a single machine, which in turn helps to reduce labour costs. We are confident that these new units will rapidly become a must-have that will generate the

high rates of utilisation that we expect from any rental equipment to support our business.

"GPT sees this level of investment continuing over the coming years as customers continue to respond positively to the premium quality products being offered by our company coupled with our excellent customer service."

Dromad Hire Launches New User Friendly Website

Dromad Hire has launched its brand new user friendly website, which boasts a number of new features along with multiple search tools to help the user navigate with ease.

It also highlights the company's three core divisions, along with an abundance of technical information, and incorporates the company's recent rebrand, focused on modern clean minimal design.

According to Dromad Hire's Managing Director Seamus Byrne, "Our aim was to provide a simple user friendly website that our customers can find the equipment or information they need in minimal time. We hope our customers like it and

look forward to any feedback where we can further improve."

Another significant feature is the on-line catalogue viewer and the new Spider Lift Brochure where they can now be viewed or downloaded direct from the website.

The project was overseen from start to finish by Dromad Hire's Marketing Coordinator Clodagh McCrory, who worked closely with local web development company Aquaweb.

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BRIGGS
EQUIPMENT

BRIGGS EQUIPMENT OPENS MODERN NEW HIRE CENTRE IN LISBURN

BRIGGS Equipment has just opened its plush new modern hire depot in renovated premises at the Blaris Industrial Estate near Lisburn, as Chris McCullough reports for Plant & Civil Engineer.

Following extensive refurbishments of what was previously the old Finning offices, Briggs Equipment has moved there from its previous site at Mallusk.

This year, Briggs Equipment acquired all the Balloo Hire centres in Northern Ireland expanding the business to a larger customer base.

Baloo Hire was established in 1987 and has a fleet of almost 10,000 units across a product range of more than 650 items, which makes it one of the largest and most versatile ranges in the industry.

The company has over 120 employees and operates from five locations in Northern Ireland including its head office in Belfast as well as Bangor, Lisburn, Ballyclare and Glenavy.

Across Ireland Briggs Equipment now operates from two sites, the new one in Lisburn and another one in Dublin. In total the company has eight locations across the UK and Ireland with the head office being at Cannock in England.

Andrew Neill, Managing Director, Ireland, Briggs Equipment said: "The new Lisburn location was previously the home of Finning. Briggs bought the building and



completed a huge renovation of the building and has future plans for an additional storage unit on the lower yard.

"The interior has been completely renovated with offices increased in size by knocking down several walls and creating new meeting rooms in the open plan spaces.

"The whole building was given a new look inside with a fresh paint job to suit the

Briggs corporate colours along with new graphics displayed around the building.

"The workshop was cleared out and branded with the Briggs graphics and a brand new paint booth was installed into the workshop. The yard was cleared and used to store all the equipment Briggs has in the short term hire fleet.

"On top of that, new canteen areas were created for staff and the meeting



**ACROSS IRELAND
BRIGGS EQUIPMENT
NOW OPERATES
FROM TWO SITES,
THE NEW ONE
IN LISBURN AND
ANOTHER ONE IN
DUBLIN. IN TOTAL
THE COMPANY HAS
EIGHT LOCATIONS
ACROSS THE UK
AND IRELAND WITH
THE HEAD OFFICE
BEING AT CANNOCK
IN ENGLAND.**

rooms were given new technology for sharing presentations and hosting meetings," said Andrew.

It really has been an extensive renovation at the Lisburn base of Briggs Equipment with attention to detail to the forefront.

Andrew added: "The entire building has been repainted throughout, with new ceiling tiles, carpet tiles, toilets, furniture, glass fronted meeting rooms and offices.

"The new canteen facilities in both the workshop and office spaces allow staff to interact with all departments. Open plan offices have more departments in the same space all working together more closely now.

"Modern graphics throughout the building echo the Briggs values and there is a strong emphasis of the 'Be Safe Home Safe' culture around the workshop in particular and the office spaces. There are also new PPE regulations and access cards to get around the building.

"The building was purchased in November 2018 with the first site walk taking place that same month. The previous occupants were out of the building by the end of January 2019 and renovation took place until May 2019 when the Briggs staff moved in at the start of the month," said Andrew.

Briggs Equipment vacated their old premises in Mallusk at the end of May 2019 and the new Lisburn site has been fully operational since that time too.

The new premises were officially opened by the American owners of Brigg Equipment, Sammons Enterprises, on Thursday, July 18, 2019.

Briggs Equipment is the UK exclusive dealer for Hyster and Yale materials handling equipment.

Andrew added: "We also have an extensive fleet of over 895 machines including powered access, plant and MHE available in the short and long term hire fleet, covering all areas across Ireland.

"We have over 60 mobile engineers covering the whole of Ireland, using cutting edge cost control processes to provide a unique solution that meets business needs, maximising productivity and available for servicing and breakdowns 24/7.

"We also have an extensive range of parts available at our Lisburn and Dublin trade counters, supported by an overnight service direct from the manufacturer. All major makes of parts for equipment are available at competitive prices," he said.

The Lisburn depot is also home to a new training academy that teaches operators in the safe use of equipment.

"Our training academy based at our new site in Lisburn provides up to date training in the use of forklifts and MEWP, driver CPC, telehandlers plus many more," said Andrew. "Training can be carried out at our new training facility or at the customer's own site," he added.



Roadbridge Adds Intelligent Machine Control & Eco-Friendly Hybrid Technology to Excavator Fleet

Contractor Roadbridge has committed itself to hybrid and intelligent machine control with the purchase of new Komatsu machines for service at Dublin Airport and on other projects that include a major road realignment at Collooney and the Facebook data centre in Clonee.

In a multi-unit deal, their fleet is being expanded with the addition of two HB365LC-3 and one HB215LC-3 Hybrids and a PC210LCi-11 unit with Intelligent Machine Control.

Likely to be especially beneficial in reducing fuel consumption and environmental impacts generally, Komatsu Hybrids are seen as 'heavyweight excavators with a lightweight environmental impact' whose significant fuel saving come by combining engine power with a proven



Roadbridge Chief Executive Officer, Conor Gilligan (left) and McHale Plant Sales Chairman, Michael McHale pictured with a HB365LC-3 Hybrid, which forms part of a multi-unit purchase of new Komatsu machinery undertaken by Roadbridge.

hybrid mechanism whose battery output is kept charged by the machine's own swing movement.

Using intelligent machine control, operators have more accurate control of ground preparation.

Automatically, the bucket is prevented from digging beyond the target surface, thereby maintaining grade automatically with real-time bucket edge positioning, both in relation to the machine and the job surface.

Other Komatsu machines forming part of the Roadbridge purchase include a number of PC490LC-11 excavators, PC138US-11 short tail swing crawler excavators, D65PX-18 and D85PX-18 dozers and PC55MR-5 and PC26MR-3 minis.

Commenting, John O'Brien, sales director with Komatsu distributor, McHale Plant Sales said: "by investing in latest machine technology, Roadbridge demonstrates the importance it attaches to self-reliance in matters of fleet availability and its function in promoting a strong, positive image for the company within the civil works contracting sphere."

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Omni offers exceptional visibility by connecting to another tablet.

TEREX FINLAY INTRODUCE NEW TF-75L LOW LEVEL FEEDER

Terex Finlay have progressively and systematically developed a comprehensive range of robust, reliable and efficient bulk material handling and stockpiling solutions.

Today the range comprises tracked mobile conveyors, high and low level feeders. In the coming months the TF-75R radial stockpiler will join the range following an exhaustive and robust testing phase in diverse a range of product applications in locations throughout Europe.

The TC-65 and TC-80 tracked conveyors where the first machines to be launched in the range during 2017. The uptake by the dealer network and acceptance by the marketplace of these machines has been exceptional.

The superior 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 or transported easily from site to site on a low bed trailer.



At Bauma 2019, Terex Finlay introduced the latest new conveying product in the form of the TF-75L low lever feeder. This new addition to the portfolio has been designed to maximise productivity, enhance efficiency and reduce on site

operational costs in a wide range of applications and feed material types. The large 7m³ (9.2yds³) hopper with a feed in height of 1900mm and width of 3500mm enables low level feeding directly from excavators, grab cranes,



and wheel loaders. For onsite safety and quick set up the hopper is fitted as standard with hydraulically folding sides.

Depending on the application a number of grid and hopper extension options for particularly abrasive materials are also available. Tracked mobility and the ability to feed material from all three sides enables the TF-75L to be easily incorporated into open and closed circuit static and mobile crushing and screening circuits.

The 1200mm/48" wide variable speed main conveyor has the capability to handle up to +600 mtph of materials depending on the feed material and working angle of

the machine. The impressive 9.8m / 32' 2" maximum discharge height provides a maximum conical shaped material stockpile capacity of 1735m³/2269yd³.

With an average fuel consumption of approximately 8.5 l/hr the TF-75L reduces the need for doubling handling of materials and also the requirement to operate secondary equipment such as loaders on site.

By replacing these supplementary pieces of equipment with a TH-75L low level feeder, operators will immediately benefit from reduced operational, maintenance and labour costs and lower the overall

cost per tonne. It is estimated that these savings can be up to 80%, a significant immediate saving for operators who can either redeploy their loader or simply avoid the investment altogether.

As with all Terex Finlay crushers, screeners and conveying equipment, the TF-75L low level feeder has been designed for ease of movement between job sites, ease of redeployment on site and rapid set up and tear down times so that the machine can be put to work in less than 15 minutes from transport mode.



THIS NEW ADDITION TO THE PORTFOLIO HAS BEEN DESIGNED TO MAXIMISE PRODUCTIVITY, ENHANCE EFFICIENCY AND REDUCE ON SITE OPERATIONAL COSTS IN A WIDE RANGE OF APPLICATIONS AND FEED MATERIAL TYPES



BRICK & BLOCK: SPECIALISTS IN MOBILE CRUSHING & SCREENING

Established by John Minish in 1988, Brick & Block has built up a widely respected reputation as a dedicated specialist offering a range of services - from contract crushing and demolition to site clearance and excavation.

Covering Northern and Southern Ireland, the company's highly sought after and competitively priced services attracts a wide variety of clients, including landowners, developers and quarry operators.

Fully insured through Constructionline and CSR registered, Brick & Block's portfolio of services also includes site clearance and plant hire, with driver or operator and in addition it can supply quality screened top soil.

Its core business, though, is and has always been, mobile crushing and screening, with the capabilities to crush up to 1,000 tonnes per day and can handle any size of task - from 200 tonnes up to 200,000 tonnes. It is also able to deliver crushed stone or concrete and aggregate to sites for reuse or recycling.

As its business expanded, the company, which is based at Scarva in County Down, has invested heavily in plant and machinery, the latest acquisition being a 55 tonne mobile Sandvik QJ341 jaw crusher that has been earning its keep on a variety of projects across the country.

It has been a great investment, as John explains: "We had been hiring in a mobile crusher for three years, but when a neighbouring quarry called on our

services after their equipment broke down, and coupled with winning more contracts over the past year, it made more sense to acquire the Sandvik.

"It is ideal for an operation of our size; it is easy to move from site to site, and can handle quite significant quantities."

In recent weeks, it has been used to crush ballast for a Northern Ireland Railways project on the main Belfast to Dublin line at Lurgan in County Armagh.

The jaw crusher perfectly complements the company's other plant which includes a smaller Metrotrax crusher, a Pegson 1000 Maxtrak cone crusher, a number of diggers and tipping trucks, as well as a low loader to transport the crushers from one project to another.

"Investing in new plant and machinery is an ongoing process," says John, who takes a fully focused 'hands on' no nonsense approach to the business. "Providing a service that meets and exceeds our customers' requirements is our top priority, so having the right equipment to do so is essential."

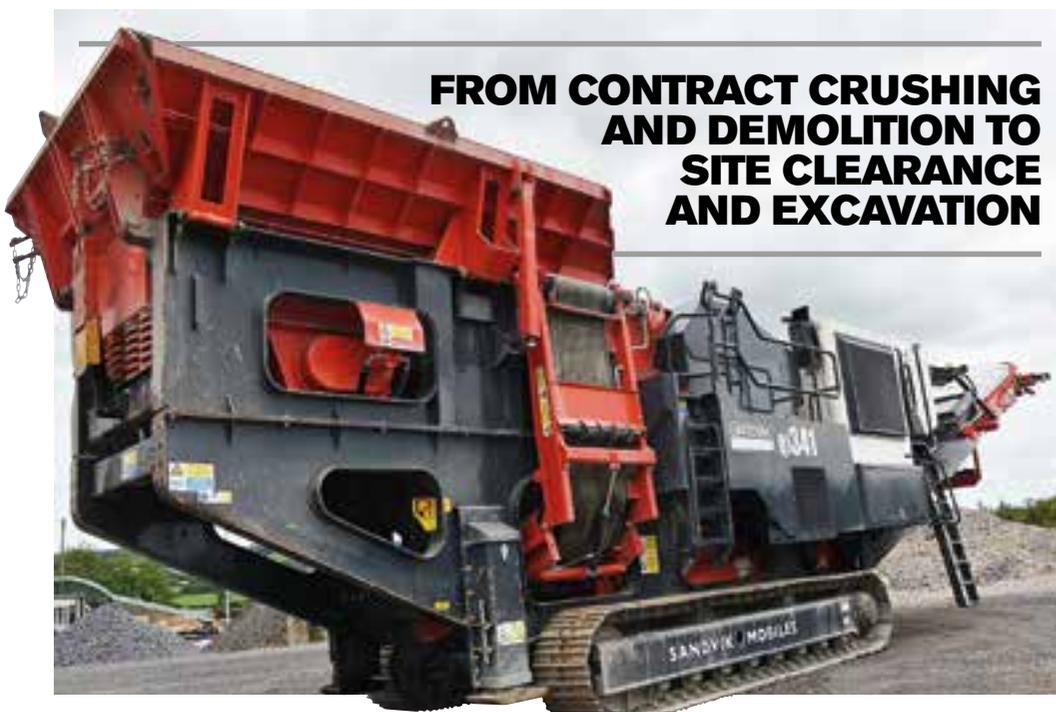
Major Project

When Plant & Civil Engineer caught up with John, he was working on a major project off Peggy's Loaning in Banbridge in County Down where his team had to demolish a 30m high chimney and other single storey buildings on the six acre site of an old weaving factory to make way for a large private housing development.

Being able to crush and screen the rubble for re-use on the site certainly makes sound financial sense, eliminating the need for transporting it off site to a static crusher, cutting down on costs and road miles and reducing any impact on the environment.

At the Banbridge site, the mobile Metrotrak has been used to crush around a total of 5,000 tonnes of material over several weeks. The recycled material will be fully utilised during the construction of the housing development.

As we mentioned, Brick and Block's other services include site clearance. "We will clear your site quickly and efficiently. No matter how much rubble, rubbish and green waste there might be on your site, we can clear it for you," says John, who adds that if you are looking for crushed concrete or screened topsoil, Brick & Block can oblige, providing a top quality product and a customer service that is second to none.



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KIRRANE INVEST IN MORE **KOBELCOS**

McSharry TRACK, Kobelco dealer for all of Ireland, have completed a deal with John Kirrane Plant Hire Ltd for five new Kobelco excavators. John Kirrane had already purchased Kobelcos ranging from 14 - 35 ton in recent years, so this deal brings the Mayo contractor's Kobelco fleet up to 10 units.

The current deal comprises of two SK230SRLC-5s, two SK140SRLC-5s, and a

SK85MSR-7. All of the excavators have been fitted with Topcon machine control technology which Kirrane's have been deploying in their work for some time now. Topcon dealer Easy Track featured the SK85MSR-7 on their stand at CQMS in Punchestown in June.

Kobelco specialise in excavators and they have a complete SR product range. The SK85MSR-7 is a new model which was unveiled at Bauma earlier this year.

Kobelco have made improvements to both the performance and design of the SK85MSR-7, positioning this model at the top of its' class; engine output is increased by 23% and the cabin is redesigned with an air suspension seat. This is the first of this model sold in Ireland.

Kirrane are involved in major road works at Strandhill, Co. Sligo, among many other civil projects.

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crushing & screening

NEW **TESAB** JAW CRUSHER EARNING ITS KEEP AT TYRONE QUARRY

A busy quarry in County Tyrone has just taken delivery of a new Tesab Jaw Crusher and has already put it to good use at the quarry face.

The quarry at Sixmilecross outside Omagh has been operating a brand new Tesab 700i Jaw Crusher breaking down blasted material to 120mm before it enters a screener to be separated into other saleable products.

Struggling with their previous crusher setup, Tesab came in to review the application and used this information to tailor a spec for the 700i Jaw Crusher to help get the best solution that would enable the quarry to get the most out of their application.

The 700i uses its pre-screen to clean up dirty and sticky material from the blast, allowing a clean crushed end product. The 0-40mm product taken out from the pre-screen is then used for further upstream processing – giving an added value product to the customer!

The new 700i was sold by Tesab's Leon Connolly, who explained: "The 700i is the most popular model of the Tesab crushers, designed for quarry operators looking for maximum output with minimal downtime. The 700i is a high output, simple and highly reliable primary jaw crusher, with no fancy electrics and no Canbus or PLC computer systems on board.

700i AT A GLANCE

- Proven Crusher Unit with 1100mm x 700mm Jaws
- 1200mm Discharge Belt Streamlines Material Flow
- Direct Drive System & Large Flywheel = Lower Running Costs
- Large Hopper & Feeder = Higher Throughput
- Up to 350+ Tonnes per Hour Production Rate

"With the 700i we have listened to the market to create machine that provides better quality material at less cost per ton."

The Tesab 700i Jaw Crusher is powered by a CAT C9 engine and the direct drive system and large flywheel makes it much more fuel efficient, coupled with the high throughput and material separation quality helps create an overall low cost per ton by increasing production and reducing wear costs.

Commented a quarry spokesman: "As well as improving overall capacity, the 700i creates a much cleaner product at a lower cost. In this particular application, the 700i



THE 700I USES ITS PRE-SCREEN TO CLEAN UP DIRTY AND STICKY MATERIAL FROM THE BLAST, ALLOWING A CLEAN CRUSHED END PRODUCT.



is crushing primary rock which is then being fed into our 2 Deck Screener - the result being extremely high quality aggregates."

"We have always been more concerned with a steady, continuous production rather than short, high peaks. With the 700i we are averaging over 250 tons per hour which shows visible results - we have even had to add a tracked stockpile to take the volume of pre-screened product away!"

Based on the proven 10570, the 700i weighs less and is a more streamlined and powerful machine that can be fed by an excavator as a standalone unit and also integrates easily into the Tesab range of Secondary Crushers and Screeners.

Replacement Parts

While all Tesab products are manufactured from high quality components, from time to time some parts may need replacing. If that happens, you can be rest assured that replacement parts will be available to you on demand.

Tesab hold a large stock of genuine replacement parts in its manufacturing facility and has access to many more from its suppliers. With a dedicated

and vastly experienced spare parts team, Tesab's aim is to always get you up and running as fast as possible.



SANDVIK LAUNCH NEXT GENERATION 2 SERIES IMPACT CRUSHER

Continuing their ongoing product development Sandvik has launched its new Q1442 track mobile impact crusher.

This latest addition features the newly developed Cl621 Prisec Impactor which comes with a host of innovations for improved efficiency and greater safety during maintenance, as well as being able to operate in either primary or secondary crushing modes.

Like previous Sandvik Prisec impact crushers the new Cl621 can be configured to work as either a primary or secondary machine, whilst the two hydraulically assisted curtains can be readily adjusted to produce a wide range of high quality product sizes.

The new Cl621 includes further enhancements primarily focused on increased safety during maintenance and serviceability. These include a new rotor position and locking device, new hammer locking wedges for quicker removal and fitting, and a new wedge removal tool to provide safer installation and removal.

The rotor Bearings have also been upgraded for easier assembly and clearance setting, in addition to an improved sealing system and greater range of adjustment in curtains. This allows greater usage of wear parts and maintains tighter settings in the secondary position.

Benefits

One of the benefits incorporated into the Q1442 is the optional modular hanging screen system. Recently launched on our mobile cone crushers, this system is interchangeable and

offers the flexibility for the crusher to operate in open or closed circuit.

The unique design enables set-up in less than 30 minutes and can be fitted without the use of additional lifting equipment. The patent pending hanging screen option delivers multi-functionality as a 1, 2 or 3-way split screener, as well as a highly productive and efficient impact crusher.

The double deck hanging screen enables the machine to produce two screened products and recirculate the oversize back into the feed conveyor. The oversize conveyor may be hydraulically rotated for material stockpiling (90°) of up to three products on the floor, or removal (180°). The tail section can be raised hydraulically to give improved ground clearance for transport when loading or unloading.

My Fleet telematics

The Q1442 comes with Sandvik My Fleet remote monitoring system as standard. My Fleet has been developed to help our customers know exactly how their equipment is being utilized. Through the collection and accurate monitoring of a wide array of parameters, this facilitates accurate production forecasting, ensuring that the most efficient use is obtained from equipment, thereby maximizing return on investment.

Key features

The Q1442 comes equipped a range of customer focused features designed to improve the return on investment and experience for the operator. A pre-screen is

fitted to ensure maximum scalping capability and to prevent any undersize material passing through the impactor, maximising throughput and reducing wear costs. This also allows a specific sized product to be produced from the natural fines conveyor.

The pre-screen also has a choice of grizzly or punch plate top deck and mesh bottom, providing the flexibility to suit any application and the underpan feeder drastically reduces spillage generally associated with impact crushers.

Key features include:

- Pioneering crushing technology for high reduction ratios
- One of the most flexible units on the market with the ability to operate in primary or secondary applications.
- Many features as standard including overband magnet, pre-screen, underpan feeder, natural fines conveyor, ceramic blow bars and remote control.
- Optional hanging screen available for recirculation or stockpiling to produce two products. This is completely detachable without the need of additional lifting equipment.
- CAT C13 diesel emissions compliant engine with direct drive heavy duty wet clutch for maximum power delivery and fuel efficiency.
- Ease of operation with a user-friendly PLC control system and colour screen
- My Fleet remote monitoring of key parameters to help optimize machine operation.





QI442 IMPACTOR THE NEXT GENERATION

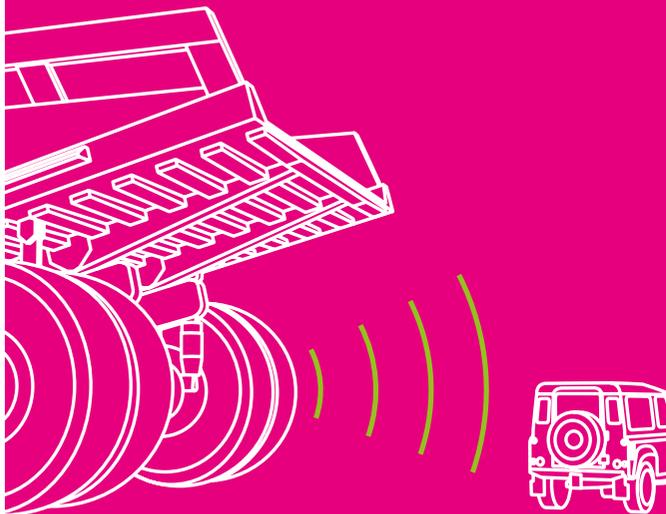


Sandvik QI442 mobile impact crusher is a pioneering solution offering primary and secondary crushing in one unit. This upgraded 2-Series model features the newly developed CI621 Prisec technology which comes with a host of innovations for improved efficiency and greater safety during maintenance. It offers you the flexibility to work in open or closed circuit, with the optional double deck hanging screen enabling rapid set-up in less than 30 minutes. Fitted with My Fleet remote monitoring system as standard, the QI442 offers one of the most flexible and efficient mobile crushing solutions for large scale operators worldwide.

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TBF Thompson primed and ready to become Bell Equipment dealer in Ireland

TBF Thompson has become the latest commercial and plant dealer to position itself as an official distributor of articulated dump trucks (ADTs), designed and manufactured by Bell Equipment.



Established in 1958, TBF Thompson (Garvagh) Ltd has been at the forefront of commercial and plant sales throughout Ireland, selling a wide range of equipment to construction and quarry industries across the region.

With depots in Belfast, Dublin and Garvagh, Thompson's legacy of quality and excellence still stands strong today. The company holds its position as a leading distributor with an impressive reputation for conscientiously responding to customers' needs and requirements.

Believing Bell Equipment's operating ethos chimes with its own principles, whilst deeming the manufacturer's vehicle design and build quality to represent engineering excellence within the field, TBF Thompson has chosen to bring the Bell brand on board and become an authorised dealer.

"We've been contemplating a working relationship with Bell Equipment for some time," explains TBF Thompson's Director, Seamus Doherty, "and have been impressed with its capabilities in manufacturing and distributing heavy earthmoving machinery for over 60 years.

"Bell Equipment is seen as one of the world's leading construction machinery manufacturers, with its ability to supply a strong reliable product and develop an ADT range that's widely regarded as a benchmark in durability and innovation."

Seamus adds that his company will be offering clients the full range of Bell ADT products from the original equipment manufacturer's portfolio.

With demand for hardworking, reliable plant machinery is currently experiencing a surge; particularly in the southern counties of Ireland where several road construction projects are progressing and quarries are reinvesting in new 'post-recession' equipment, Seamus anticipates a keen interest in his company's latest partnering development.

He has clients involved in key construction projects, including a £220m extension of the A6 with dual carriageway bypass at Dungiven, a €320 million North runway investment at Dublin Airport, the commencement of the N4 Dual carriageway project in Sligo, and the potential for the A5 Western Transport corridor to materialise - linking the city of Derry with Aughnacloy.

"Our customers span a diverse range of sectors," he adds, "including road building and maintenance, construction, earthmoving, quarrying, waste handling, agriculture and forestry, as well as plant hire.

"With the market continuing to show signs of recovery, we're predicting our clients will begin to increase their demand for machines across the Bell Equipment range, with concentration on the Bell B20E, B30E and B45E truck models.

"We believe that these ADTs will complement many of the existing franchises we hold and are delighted to add Bell Equipment to the list of prestigious machine manufacturing names we supply. It's a positive decision for both companies and we feel confident that moving forward, Bell and TBF Thompson will be a winning combination," Seamus concludes.



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MATERIALS**

TELESTACK BARGE-LOADING EQUIPMENT RESULTS IN BETTER EFFICIENCIES

Three common requirements from barge load out terminal operators are speed, efficiency and dust free loading. Hatch cover removal and reset are typical time consumers when loading barges. Telestack understands the characteristics of bulk material handling products and has experience in handling difficult and complex materials. Materials such as cement and alumina can have a splash effect that can cause unwanted dust production.

Telestack provides a flexible solution to terminal operations, no matter what the location and surrounding environmental conditions. Its barge-loading equipment allows operators to directly feed the equipment from wheel loaders and/or

grab cranes in the port/inland terminal to eliminate the double handling of material.

As one of the key quarry producers in Iceland, Alexander Olafsson identified a market for exporting aggregate to mainland Europe. He looked to Telestack to help it become more efficient and flexible in its operations.

He also wanted to generally reduce operational costs throughout and has been able to achieve all his goals by the introduction of an HF 821 Revolution Mobile Hopper Feeder to load coaster vessels with aggregates as well as stockpiling.

Application

Prior to the Telestack installation Alexander Olafsson considered many options to load their coaster vessels. After much consideration and research, particularly against the traditional mobile grab, the Telestack Hopper Feeder was chosen

simply because of its flexibility, its throughput rate, low maintenance cost and ability to maintain the product integrity by reducing the number of times the product is handled.

The Telestack HF821 Hopper Feeder is designed to hold a buffer of material within the hopper and in turn allows a regulated flow of material to travel onto the main incline conveyor. Fed by a wheel loader, the hopper has a 12m³ capacity with a 1200mm wide belt feeder. The hopper is fully lined with 6mm Abro 400wear liners to minimise wear and protect the paint finish.

The feeder and incline conveyor speeds are controlled by a flow control valve to regulate the conveyor belt speed which was required to accommodate the variety of materials that Alexander Olafsson managed. The variable speed drive also enabled the operator to run the belt speeds as slow as possible thus minimising dust creation at the transfer points.



TELESTACK HF821 HOPPER FEEDER IS DESIGNED TO HOLD A BUFFER OF MATERIAL WITHIN THE HOPPER AND IN TURN ALLOWS A REGULATED FLOW OF MATERIAL TO TRAVEL ONTO THE MAIN INCLINE CONVEYOR



Results

One of the main attractions of the Telestack equipment was its multi-faceted nature. The fact that the same equipment can be used to load the barges as well as stockpile on the quayside or stockyard was a key purchasing decision. The initial CAPEX investment is vastly reduced with the purchase of one piece of equipment rather than potentially two.

The mobility of the unit also means that the equipment can be relocated quickly and easily across different sites so that it can be used throughout the stockyard, ensuring a high-production capacity and a 30% increase in stockpile capacity on the same footprint, in comparison to fixed length / height conveyors. The flexible nature of the unit

also meant that it has been used to feed an existing separate CDE washer plant and Metso crushing & screening line.

Unique feature

A unique aspect of the HF 821 is the Revolution feature – a centre mounted slew bearing that enables 360° rotation of the hopper and boom. Ideal for barge loading and unloading, rail loading, rail unloading and stockpiling.

The parallel travel feature enables the operator to manoeuvre the unit parallel to the vessel removing the need to reposition the unit, thus enhancing loading rates and efficiency!

The Revolution feature improves site movement and paired with the custom rubber track pads that are fitted to tracks allows movement on concrete/ asphalt ensures a fuss-free product. The Revolution option is available on all HF/LF models and has enhanced the Telestack product offering considerably.

Due to the extreme temperature variances in Iceland (minus 10° to 40°) Telestack had to also incorporate a few bespoke features to ensure

that the Hopper Feeder would be fully functioning at both extremes.

Improved Product Quality

The HF 821 Revolution is part of the mobile hopper feeder range that can be used to stockpile material, feed auxiliary equipment, reclaim to other conveyors, directly load ships, trucks, rail wagons etc at production rates of up to 2,500tph.

Central to the hopper feeder range is the ability to discharge directly from wheel loaders/ grab cranes and excavators in a “controlled” manner thus eliminating the double handling of material and helping to ensure a better quality of product.

Further Investment

After purchasing the HF821 and seeing first-hand how it produces the results discussed above, Alexander Olafsson further invested in a Telestack TC421 Tracked Conveyor to complement their crushing and screening operation.

This investment enabled them to further reduce the use of the wheel loader when building stockpiles therefore reducing labour, fuel costs, carbon footprint as well as maintenance costs.



Celebrating Quarter Century of Service to Construction Machinery Sector

Come September, one of Ireland's best-known construction plant distributors, McHale Plant Sales will celebrate the 25th anniversary of its establishment in 1994.

Founded in the 1950s by Michael McHale Senior, late father of the present company director Michael McHale, it was not until 1994 that the company we know today took its first formidable steps as a national distributor of construction equipment.

That was the year in which McHale Plant Sales was appointed distributor in Ireland for Komatsu construction equipment – a transformative appointment that was to be the springboard for all that was to follow.

From its twin locations at Birdhill and Rathcoole, McHale Plant Sales manages a portfolio of international brands that now includes Komatsu Forest timber harvesting equipment, Metso stone crushing equipment, Terex Ecotec shredders and

conveyors, and Merlo telehandlers – all in addition to Komatsu construction lines.

Well-resourced in all respects, the company has a formidable management team that includes co-owners Michael McHale, Tim Shanahan and John O'Brien plus finance director Liam Foley, all ably supported by a back-up management tier each one thoroughly grounded in the needs of the industry.

Asked what has been the hallmark of McHale Plant Sales' success over the past 25 years, a source close to the company commented: "Without doubt, it has been their understanding of the sectors they serve, their closeness to the people who buy their products, and their ability to expand gradually by building on their strengths in a controlled and measured way. Having a distinguished user base and a first-class range of world-leading products, each one of which complements the other, has not done them any harm either".



First Sale-McHale Plant Sales company director Michael McHale (left) pictured in 1994 with customer Dan O'Sullivan of O'Sullivan Plant Hire, Ardagh at the handover of the PC180LC-5 hydraulic excavator, the company's first Komatsu sale as importers and distributors in Ireland for the high-end Japanese brand.

JCB Hydradig 110W is RiverRidge's 'go to' machine



RiverRidge machine operator, Alan McDaid, takes delivery of a new JCB Hydradig Wastemaster from Jeff Haslett of Dennison JCB.

A JCB Hydradig 110W Wastemaster is helping RiverRidge to further improve operational efficiency at its materials recovery facility in its Maydown site in Londonderry.

Supplied by JCB dealer, Dennison JCB, the Hydradig is being used to undertake a range of core duties, including loading and unloading lorries, sorting waste materials, delivering loads to RiverRidge's shredders and ensuring that the site is kept tidy at all times.

At the Maydown site, a range of industrial, domestic and commercial waste is refined and turned into alternative fuels, which are exported by

RiverRidge to users across Europe and Scandinavia.

The JCB Hydradig 110W Wastemaster has been designed to meet the demands of any waste and recycling environment. With its engine, tanks and ancillaries located within the chassis, the vehicle offers excellent visibility, stability, manoeuvrability, mobility and serviceability.

Don McColgan, RiverRidge's maintenance and facilities manager, said: "The JCB Hydradig is our 'go to' multi-purpose machine for a broad range of tasks across the facility. It has improved our operations on site due to its compactness and manoeuvrability around the site. This machine has also enabled us to sort bulky waste, a task that prior to now involved manual labourers in conjunction with machines. As a result, we have seen huge health and safety benefits as well as time savings."

Four-year warranty on MAN tipper trucks

Coined the '8x4x4' warranty, MAN offers a four-year warranty on rigid tipping bodies from Thompsons Group in its Trucks2Go programme.

The warranty will include Edbro CX15 hydraulic tipping gear and

is being supported by Thompsons Group's Service capabilities.

Lee Wilson, Regional Sales Manager at JOST UK, comments on the MAN warranty: "We've always stated that Edbro cylinders are delivered with a 'fit and forget' promise. Our cylinders

are designed to last for the life of the vehicle and in many cases have remained operational for in excess of 20 years.

"As standard we offer all our end users a three warranty, so I have no doubt that our cylinders will perform flawlessly throughout MAN's four-year warranty period.

"Of course, it's extremely gratifying that a leading OEM has recognised the quality of our product to such an extent. We are confident that the CX range will offer MAN's customers reliable tipping and improved productivity."

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MARKET HAS APPETITE FOR EX-RENTAL PLANT & MACHINERY

Euro Auctions attracted the crowds to its dedicated ex-rental unreserved 'one day' sale for quality equipment from leading hire companies, including A-Plant and Charles Wilson.

Euro Auctions was delighted to be appointed, again, to hold a special 'one day' unreserved sale for ex-rental equipment, including two of the UK's largest plant, tool and equipment hire companies, A-Plant and Charles Wilson.

The sale comprised of over 1,200 lots, and took place at the Euro Auctions site at Kellington, near Leeds.

The sale presented a wide range of good well maintained equipment, including, excavators, breakers, mixers, dumpers, compressors, access equipment, power generators, loaders, mini diggers, rollers, compressors, plus many other popular items of equipment. For anyone looking for well maintained 'multiples' of top quality tools and equipment this was an ideal opportunity to view a truly extensive range of stock in one place, at one time, during one sale.



"These sales are normally part of an overall re-investment programme and fleet renewal by rental companies," explains David Betts, of Euro Auctions, "We have a very strong relationship with A-Plant, hosting sales like this on an annual basis. And we welcomed Charles Wilson to this sale, who brought their biggest consignment to date to an auction."

Over 700 bidders registered for the sale, with in excess of 76% bidding online, such is the Global reach that Euro Auctions has, with the top buying nations being: United Kingdom, Poland, Ireland, Belgium, Italy and Spain.

Over the three days, 4,658 lots were auctioned, with the sale having a hammer value of £34,063,025 and each lot having an average sale price of £7313.

As with all Euro Auction sales, over 50% of all bids were transacted on-line, and buyers from over 150 countries around the globe participated in the sale, with over £17 million worth of lots going to internet buyers.

New Development

"With the development of the new sales arena's, the new office building and the workshops and wash bays, the Euro Auctions site at Leeds will be the biggest facility of its type in Europe. And as such, we are seeing capacity being reached at each sale with around 5,000 lots for sale, at each sale," comments Jonnie Keys, Operations Manager of Euro Auctions. "We can display and sell more machinery and equipment that any other auction site in Europe, as well as finding buyers for specialist pieces through our global marketing."

Euro Auctions Help Dispose of Dawnus Construction assets

Euro Auctions recently held a two-day auction to dispose of the general construction equipment and assets of the construction group known as DCHL (Dawnus Construction Holdings Limited), which went into administration on 15th March 2019.

At Players Industrial Estate, Clydach, and Llewellyns Quay, Port Talbot, Euro Auctions in conjunction with Hilco valuation services, disposed of over 1,000 mixed assets belonging to Dawnus Construction Holdings Limited, with a hammer total of over £5 million for the auction.

The sale attracted great interest from not only the home market, but also from a global audience, with over 2,000 bidders from 38 countries viewing the online catalogue, with over 1,800 of those bidders, 85% of the total audience, bidding online.



By the end of the sale, 52% of all successful bids went to online buyers showing the attraction of internet bidding. Whilst many buyers were from the UK and Ireland, strong interest and bidding from European countries including, Poland, Spain, Romania, Netherlands, Portugal, Germany, Cyprus, Bulgaria, as well as the

USA, Middle East, Africa and as far away as Australia, such is the reach Euro Auctions has around the planet.

A larger range of excavator's backhoe's, site dumpers, mini diggers, bulldozers, rollers, telehandlers, and other popular machinery went under the hammer. In addition,

a good compliment of 'site infrastructure' equipment and buildings, were also disposed of.

Also, under the hammer went a myriad of buckets and attachments, powershift telehandlers, various configurations of lorries and crew vehicles.

"The sale was very well attended on the day, with a good crowd of serious buyers, such was the overall interest in the inventory. All equipment sold had been extremely well maintained and interest was strong. As with all Euro Auctions sales, everything was sold without reserve which resulted in competitive bidding," explains Neil McIlwaine, Director of Sales and Business Development at Euro Auctions. "Strong international interest was evident, with buyers from the UK being the highest number, followed by Ireland, Netherlands, Poland and Spain, equating to about 40% of all equipment going overseas, such is the global appeal of good quality and well-maintained equipment and machinery."



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Unused Komatsu PC210LC-8M0



Unused CAT 313FLGC - choice



2016 Hyundai Robex R125LCR-9A



2009 CAT M313D



2017 Kubota KX080-4



15-16 Hitachi ZX38U-5A CLR - choice



2014 CAT D6N LGP



2008 Volvo A25E



Unused CAT 950GC



15-16 JCB 3CX P21 ECO - choice



2011 Manitou MT1440 - choice



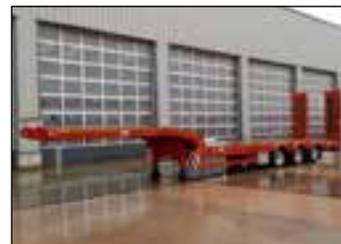
2016 JLG 800AJ



2015 JCB 6TFT 6 Ton



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EURO AUCTIONS

RECYCLING & WASTE MANAGEMENT BECOMES INTEGRAL PART OF PLANT & CIVIL ENGINEER



With the staggering growth and popularity of Plant & Civil Engineer throughout the island of Ireland, and due to repeated calls from many quarters for the magazine to include a waste management and recycling section we have decided to do just that!

Previously an integral part of sister magazine Sustainable Ireland, we have now decided to move all related waste management and recycling editorials and advertising to Plant & Civil Engineer with immediate effect.

That, in turn, means Plant & Civil Engineer's annual awards this coming November will be even bigger, with additional categories in Waste Management & Recycling. (You

can find more details on how to enter the awards elsewhere in this issue.)

In many ways, we have turned full circle, for prior to the emergence of Sustainable Ireland magazine, waste and recycling was a regular feature of Plant & Civil Engineer. Now that it is coming home again, and we are really excited by the opportunities that presents, not just for us here at Plant & Civil Engineer, but for our readership and advertising supporters too.

As you will see in this issue, we are already carrying a number of waste management and recycling articles, and these will now be a regular feature going forward, so if you have any good news stories in this area, please let us know!



Waste management companies urged to act on HSE report

Re-Gen Waste, one of Europe's largest materials recycling facilities, has reacted to the Health & Safety Executive's (HSE) latest report analysing manual handling practices and recommendations in kerbside collection of recyclable waste.

The recently published report addresses the fact that the injury rate in the waste and recycling sector is significantly worse than the average for all industries, with manual handling of waste at the kerbside responsible for 35% of the injuries leading to over 7 day absence from work that is reports to HSE.

Joseph Doherty, Managing Director of Re-Gen Waste says that this latest piece of research highlighting the serious issues associated with the box system and source-separated materials must not be ignored.

"Improving health and safety performance in the waste and recycling sector is, rightly, a



Joseph Doherty, Managing Director of Re-Gen Waste.

priority for HSE," he stated. "The fact is that workers collecting household recycling often have to manually sort waste at the kerbside and if the collection system, or the containers, or the vehicles are poorly designed then they can expose workers to significantly increased risks of musculoskeletal disorders (MSDs).

"We have been vocal about the fact that we believe local councils should urgently discontinue the use of box type recycling systems in

favour of wheeled bin-based services. This would surely allow collection workers to work with fewer health complaints, more productively and for longer."

The in-depth HSE report follows research earlier this year by the University of Greenwich and Glasgow Caledonian University, which confirmed that musculoskeletal injuries fell when wheeled bins were used instead of boxes or bags. The findings suggested that wheeled bins were least likely to cause pain, compared

to kerbside boxes, which represented the highest risk of injury to collection workers.

The report stated that lower back pain was caused as a result of bending, twisting, lifting and sorting recycling into different components and bins.

Joseph Doherty added: "As waste management companies, we absolutely have a responsibility to proactively protect the health of workers who are collecting waste on our behalf.

"It is simply not acceptable to ignore findings that state that workers are becoming injured where it could be so easily avoided with better designed systems; whether that be the use of wheeled bins, smaller boxes which are lighter to lift, or vehicles with a reduced loading height.

"There are ways to mitigate the risks and each of us in the industry must play a part in improving conditions for refuse workers."

Shredders you can trust.

We have over 30 years experience manufacturing industrial shredders. So, whether it's for a SME or a nationwide recycling organisation, we can design and deliver a shredder that's perfectly adapted to your working environment.

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ULSTER SHREDDERS: PRODUCTS THAT ARE INNOVATIVE, VERSATILE & IN GROWING DEMAND

Ulster Shredders continues to grow its sales at home and abroad of its innovative and versatile industrial shredding units.

Increasing numbers of companies, most notably those in the waste and recycling sectors, have been making good use of the Castledawson based manufacturer's products with applications ranging from confidential shredding to separating plastic packaging from discarded food.

Always in touch with its already well-established customer base, Ulster Shredders continuing success can also be attributed in no small measure to its proactive approach in raising its profile to attract new clients.

Operating from state-of-the-art engineering facilities, which boasts several complete shredding lines, another contributory factor to sales success is its team of highly skilled engineers who are able to carry out trials, tests and demonstrations of customers' materials under real production conditions.

Its range of shredders can be custom designed to suit the requirements of individual clients - whether it's for a SME or a nationwide recycling organisation,

it can design and deliver a shredder that's perfectly adapted to that particular working environment and capable of handling whatever needs to be shredded, be it plastic, metal, electronic media, documents or other materials.

"We regularly get requests from customers who have very different and very specific needs and we are very happy to work with them to produce a shredder that is fit for their individual purposes," says Ulster Shredders' Managing Director Elliott Martin.

Food Waste

Recently the company provided a shredder to be utilised at Biffa Waste Services' Anaerobic Digestion plant at Cannock in Staffordshire in the West Midlands. One of three operated by the company and regarded as Europe's largest AD plant, it can handle more than 120,000 tonnes of food waste a year and generates up to 6.5m MW of electricity - enough to power 15,000 homes.

Ulster Shredders provided the company with a U45 which is being used to separate plastic packaging from food waste; the packaging can then be recycled, while the food can be used to feed the AD plant.

"We see the food waste sector as an area of potential growth for us," says Elliott. That's not surprising as latest statistics show that a third of all food produced globally goes to waste, and in the UK some 14 million tonnes of food is wasted each year, much of it dumped along with its plastic packaging.

Oil Filters

Meanwhile, two U45s have been delivered to a Finnish company to shred and recycle car and truck oil filters. L&T Environmental Services, which also has operations in Sweden and Russia, employs almost 9,000 people servicing the needs of a wide range of customers.

The machines were supplied by Ulster Shredders' dealers in Finland, Vimelco, whose focus is on waste sorting, waste splitting and composting plants as well as the stone crushing and gravel screening plants.

Document Shredding

Another recent sale was to Highlander International Recycling in Scotland who acquired a U150 shredder. The company has dealt with Ulster Shredders for many years and as a result of growing and expanding their business they required bigger machines to handle an increase of confidential document shredding

Based near Glasgow, Highlander International also acquired a second heavy industrial machine to shred cardboard cores which had previously been a challenge.

Rubber Recycling

Closer to home, a shredder is on order from Hawthorn Heights Limited which designs and builds play parks, tennis courts, rugby pitches, exercise facilities, and soft and hard landscaping works within the commercial and public sectors.

"They want to recycle old rubber materials used in the construction of play parks. Previously, when replacing rubber surfaces the used material had to be dumped. With a shredder, they can now recycle that rubber for other uses, which obviously cuts costs as well as the amount of waste going to landfill," explains Elliott.



A special shredder designed for large diameter cardboard cores for Highlander nears completion in the Ulster Shredders factory.

Trawler Waste

To further illustrate the versatility of Ulster Shredders, last year the company provided Ireland's Seafood Development Agency with a custom-built mobile shredder that accepts a broad range of seafood sector hard and soft plastic wastes such as polyethylene netting, most hard floats, polypropylene ropes, fish boxes, nylon cage net frames, hard plastic equipment, plastic boats, mussel barrel floats and oyster bags.

As we have already mentioned, the company casts its net far and wide in the search for new customers and currently Ulster Shredders have machines on trial with potential customers in Spain, the success of which should lead to even more new business.

Aftersales Support

Ulster Shredders also offer a maintenance and support service

that is divided into two areas of expertise, Spare Parts and Technical Support.

Access to genuine Ulster Shredders parts has never been easier with a large stock of parts always available. The company can offer a 24-hour turnaround on most parts and can dispatch them to anywhere in the world.

Its highly skilled engineers are involved from commissioning equipment, inspections, through to regular maintenance to keep customers' machines fully operational – and they can also benefit from the provision of a comprehensive training programme available for all machine operators, equipping them with the correct skills, knowledge, and methods to operate its machines at the highest level.

A custom-built shredder for Ireland's Seafood Development Agency.



ULSTER SHREDDERS CONTINUING SUCCESS CAN ALSO BE ATTRIBUTED IN NO SMALL MEASURE TO ITS PROACTIVE APPROACH IN RAISING ITS PROFILE TO ATTRACT NEW CLIENTS



Two U-45LB Shredders being installed at L&T's Hämeenlinna oil filter recycling plant.

recycling & waste management

Global Manufacturer & Social Enterprise 'Flooring' The Island

Interface, the global flooring company which operates a manufacturing plant in Craigavon and Belfast-based social enterprise, USEL, have launched a new partnership to turn thousands of used carpet tiles into employment opportunities for people with disabilities.

The 'ReEntry' service aims to create further value from 14,000 sqm of used carpet tiles which are currently being sent to landfill as waste.

Instead, Interface can now collect the tiles from customers across the island and deliver them to USEL's depot in Belfast where they will be sorted by grade. Depending on their condition the tiles will be re-sold to local community groups or social housing, repurposed as a riding surface for use in equestrian centres or, when necessary, used for energy recovery at a waste to energy facility.

USEL, which annually employs, trains or supports 1,200 people in Northern Ireland with disabilities and health conditions will use the income from the scheme to help support a number of new jobs.

Grace Bruton, Interface's Head of Sales, Ireland, who is leading the initiative, said: "Interface has been committed to sustainable manufacturing since the 1990s and is on the verge of reaching its 20-year 'Mission Zero' target to eliminate any negative impact that the company has on the environment.

"We've radically redesigned our processes and products to achieve that and have



introduced industry-leading schemes such as 'ReEntry'. We're also designing a new generation of carpet tile that takes more carbon dioxide out of the atmosphere than its manufacture creates and have embarked on our new mission 'Climate Take Back'. This is our commitment to run Interface in a way that helps reverse climate change – and we call on others to do the same.

"'ReEntry' turns what was previously regarded as 'rubbish' into something which benefits the environment and local community. With over 50 years' experience in delivering environmental and social projects USEL is the perfect partner, and our ambition is to expand the service year on year."

For durable products such as carpet tile the best environmental solution is to reuse as many tiles as possible before considering other end-of-life solutions such as recycling. At present only a small proportion of carpet tiles are diverted from landfill and reused, perhaps as little as 1% which is the comparable figure in the UK. Interfaces's 'ReEntry' service is specifically designed to support a 'Circular Economy' which keeps resources in use for as long as possible by reusing as much as possible and reducing the amount of carpet tile sent to landfill.

Natalie Donnelly, USEL's Operations Manager, said: "USEL exists solely to help people with disabilities and health-related conditions move into and sustain employment. We have a long track record of achieving this by keeping resources within the economy until the product has reached the end its lifecycle.

"'ReEntry' is our first project in the carpet tile market and we're delighted to partner with a global firm such as Interface which is renowned for its sustainable approach to manufacturing."

The 'ReEntry' service has already been used by firms such as Marks & Spencer, Apple and Mastercard to help reach sustainability targets.

November Date for Irish Waste Management Conference 2019

The Irish Waste Management Association, The Chartered Institution of Waste Management and Conference Managers Consulting Ltd have revealed this year's annual Irish Waste Management Conference will take place in November.

The event is once again being staged in the Hogan Suite of Ireland's only 100% sustainable conference and events venue, the Croke Park Conference Centre in Dublin on Thursday November 28th.

The feedback from all speakers, delegates, sponsors, exhibitors and guests was that the move

to Croke Park worked extremely well in catering for ever growing delegate numbers of over 400. Not only has Croke Park excellent catering and world class AV facilities, it also offers free parking all day and is easily accessible by public transport.

The Irish Waste Management Conference is, without

question, Ireland's leading waste management event for industry, public sector and policy makers, bar none.

The themes of the conference and first tranche of speakers will be announced in early September as usual for this year's event.

Almost all of last year's sponsors and exhibitors have already confirmed their continued support of the event which is a telling testimonial of the success of last year's event.

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RiverRidge welcomes first recycling and waste course at NWRC

RIVERRIDGE has welcomed the news that **North West Regional College (NWRC)** has become the first college in Northern Ireland to launch a **Recycling and Waste Management course** – offering students a route into employment in the **Waste Management industry**.

Being Northern Ireland's largest and most diversified independent waste management company, RiverRidge is fully aware of the importance of having trained and qualified operatives across the industry.

Rhonda Armstrong, RiverRidge HR Manager, said, "The waste industry is evolving at an incredible rate, and is now so much more than just recycling or disposing of waste. For this reason, having a newly qualified pool of employees, with a genuine interest in the industry can only act as a catalyst for growth.

"Similarly, offering students a route to employment following their education, can only be a positive step, both in the



North West Regional College student Martin Grant, pictured at the launch of the new Recycling and Waste Management courses at North West Regional College, Greystone Campus, with Curriculum Manager Raymond Bolt, Lecturer Michelle Young, John Mc-Carron, Environmental Resource Officer, Causeway Coast and Glens Council and Rhonda Armstrong, HR Manager RiverRidge.

future of these young people, to the industry and indeed the overall economy."

Students can now enrol for the Level 1, 2 and 3 qualifications

in Recycling and Waste

Management which will begin in

September 2019 at the college's Greystone Campus in Limavady.

NWRC Lecturer Michelle Young, who has spearheaded the initiative, said the launch of the new courses allowed experts from industry to meet with college staff to learn more about the professional qualification route that is suited to both those currently in the industry or those wishing to enter the industry. She added: "The Level 1 qualification we are offering is most suitable for students aged 16-17 in the Training for Success Programme. The Level 1 will provide the required knowledge, alongside an English and Maths qualification for entry point jobs in the industry. The Level 2 and 3 courses are suited to the Apprenticeship route.

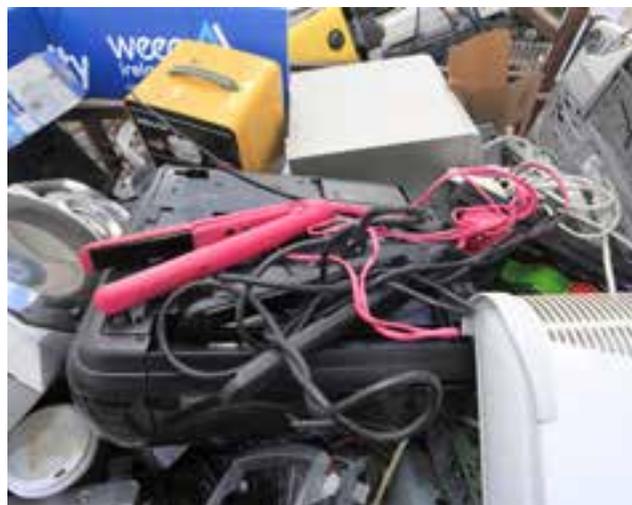
"NWRC is one of the main providers of third level education in the North West and we were delighted to work alongside them to help develop their new curriculum pathways. These pathways will assist those seeking jobs and ensure a well-qualified workforce that drives our economy forward, both now and in the future."

WEEE Ireland Sets New Records for Waste Electrical and Battery Recycling

WEEE Ireland, Ireland's largest electrical and battery recycling scheme, surpassed national targets once again in 2018, with consumers and businesses collecting a total 36,131 tonnes of e-waste and 856 tonnes of waste batteries for recycling.

The scheme's recently published annual report revealed that WEEE Ireland recycled the equivalent of 10.2kg of e-waste per head of population last year, a new national record. WEEE Ireland has achieved a 65% collection rate on behalf of its members a year ahead of the EU WEEE Directive target in 2019.

Among the items recycled were an estimated 3.2 million lamps and lightbulbs, 195,000 televisions and monitors and 13 million small appliances. 48% of all the e-waste recycled was large household appliances



such as dishwashers, ovens and washing machines, which can be returned to retailers for free recycling upon delivery of new appliances.

The report also outlines WEEE Ireland's plans for the future, managing a new generation of

emerging technologies such as PV panels, EV and hybrid batteries in the transition towards a more circular and low carbon economy.

Commenting on the best year yet for the WEEE Ireland compliance scheme, Leo

Donovan, CEO of WEEE Ireland said: "It's incredibly encouraging to see our continued progress for 2018, with Ireland again best-in-class in Europe for collection of our electrical and electronic waste. When I reflect on our 2018 activity it is with the knowledge that we are futureproofing the e-waste system in Ireland to reach our Members' share of EU targets, and transition to a more circular economy with the strength of 14 years of successful history and experience behind us.

Mr Donovan added: "It's also reassuring all small electrical waste is recycled at our operator's state of the art facilities right here in Tullamore, recovering resources for use again in manufacturing. All other waste appliances and batteries collected by WEEE Ireland are prepared for recycling in Ireland with final processing carried out at specialist partner plants."

DESERVING CHARITIES BENEFIT FROM JOINT INDUSTRY GOLF DAY

The recent Joint Industry Golf Day raised much needed funds for the Community Rescue Service and Friends of the Cancer Centre.

Staged at the Hilton Hotel and Country Club, Templepatrick, the day was organised by the MPANI and supported by a number of other organisations including the CIHT, the Concrete Society, and the Institute of Asphalt Technology.

The 18 hole championship golf course proved a suitable challenge for all involved, with prizes galore for the more successful!

A total of £2,800 was raised for each of the nominated charities, such was the generosity of the sponsors and of all taking part in the annual event which was rounded off by a three course dinner – and the prize giving ceremony - in the evening.



Momentum Team (Michael Morrow, John McCelland, Tom Verner & Ron Gibson).



Morgan Industrial Team (David Logan, Robert Irvine, Malcom Morgan & Peter Donaldson).



Ridgeway Team (Jonny Kane, Gary Hunter, Daimien Fitzpatrick & Ken Hood).



Finning Team (Naill Stevenson, Lindsay Cockcroft, Steffan Barrett & David Hamill).



Whitemountain Team (Martin Burns, Glen Henry, Pat O'Connor & Liam Cunningham).



Lagan Steel Team (Stuart Nelson, Bob McHenry & Grant McBurney).



Hogg & Sons Team (John Wilson, Mike Nickell, Gary Todd & Ray Hogg).



Mattest Team (John Chambers, Jason Patton, Neil Cooke & Colin McCuggin).



Northstone Team (Darren McMillan, Ryan Nicholl, David Luke & Brian Watt).



Plant & Civil Engineer Team (Jeff Donaghy, Alan Harrison, Garfield Harrison & Barry Harrison).



RTU Team (Daniel McIlroy, Robert Gibson, Richard Houston & Sam McIlroy).



MPANI Team (Bryan Magee, Stephen Kelly, Gavin McGuire & Gordon Best).



Quinn Building Products Team (Jerry Clancy, Kevin McGarry, Philip Butler & Jason Martin).

A WINNING DAY FOR BOTH GOLFERS AND CHARITY ORGANISATIONS



Charity donations to the 2 chosen charities The Communities Rescue Service and Friends of Cancer with an impressive total raised of £2,800.00 for each charity.



MPANI Charity Golf day team winner Mattest with fiemer Chairman Colin Emerson.



MPANI charity golf individual winner Gordon Best.

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Epiroc HB3600 Breaker sold to Denis Quinn Plant Hire in Cork by WAC McCandless.



2 New Komatsu PC138US-11s and a new Komatsu PC55MR-5 sold to Connaught by McHale Plant Sales.



CBL Ardee take delivery of a new Yanmar VIO38 from Crumlin Plant sales.



James Weir from Dungannon with his new Dieci T70 received from Alan Milne Tractors Newry.



A pair of Wacker Neuson DV90S dump trucks supplied to McBride Contracts by Glendun Plant.



A TOPA 500 Breaker sold to T&S Utilities Co Armagh by F. Rogan Plant.



New Merlo P40.17 Telehandler sold to John Sisk & Son by McHale Plant sales Ltd.



New Case CX130D supplied by Cowan Bros to Glen Burnside Plant Hire Ltd, Pomeroy.



John O'Flynn, Co. Cork with this new SK140SRLC-5 from McSharry TRACK.



McQuillan Companies collected their new JCB 406 Wheeled Loading Shovel today at our Depot in Templepatrick.



New Metso LT106 sold to Drilltech Ltd by McHale Plant Sales Ltd.



John Watson, Watson Hire with his new Niftylift 120TPE boom lift supplied by Glendun Plant.



D Bryan Groundworks who collected their JCB Approved Used JS130 machine from our Depot in Templepatrick.



Takeuchi TB216 delivered to DB Contracts in Coalisand Co Tyrone by Alan Milne Tractors Newry.



New Wacker Neuson RD18-80 roller for McBride Contracts.



Robert McBurney of RPM collected his fabulous JCB 1CX tracked backhoe loader.



New Case CX37C supplied by Cowan Bros to O'Neill Fencing Ltd, Donemana.



New Case CX130D supplied by Cowan Bros to Hamilton Contracts, Cookstown.



Donegal hire take delivery of a new Yanmar VIO27 from Crumlin Plant Sales.



Genie GS1932 Scissor Lift recently sold.



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2 new Skyjack diesel scissor lifts supplied by Glendun Plant to Hugh Miskimmon.



Marley hire portadown with their new Yanmar VIO26 from Crumlin Plant Sales.



A Giant Tendo 4548HD Compact Telehandler out for delivery to SAEK Ltd, from Ballyward Plant Services.



A new Giant D254sw tele & Adler K450 sweeper for HP Nugent, from Ballyward Plant Services.



New Dynapac CS1400 Roller ready for delivery to John McQuillan Contracts from WAC McCandless.



Truxta B300-G for Slevin Plant Hire, from Ballyward Plant Services.



A new Hydrema 912 F for PC Plant, from Ballyward Plant Services.



New Ausa D150AHA dumper for KC Hire Newry from Crumlin Plant Sales.



Eddie & Daniel Connelly with their new Wacker Neuson ET65 excavator from Glendun Plant.



Merlo Roto sold to M Large Tree Services by D A FORGIE.



Giant D254sw & Giant SK loaders out for delivery to C Ramsey Plant Hire, from Ballyward Plant Services.



Colin Lumbar from Henry Bros taking delivery of 2 new Wacker Neuson Dual View dumpertrucks from Glendun Plant.



2 new PC138US-11 excavators c/w Epiroc Multi Grapples & Hydraulic Compactors supplied to CP Hire by WAC McCandless.



2 Truxta B300-D Mini Dumpers for Alexander Plant, from Ballyward Plant Services.



2 x New Komatsu Hybrid HB365LC-3 excavators sold to Roadbridge Ltd by McHale Plant Sales.



5 KOBELCOs ready for John Kिरrane Plant Hire, Co. Mayo at McSharry TRACK.



New Rotair MDVN82KH compressor being collected from Crumlin Plant Sales by AMT Truck centre.



New Yanmar SV26 delivered to All Plant Kildare from Crumlin Plant Sales.



New Case CX145D supplied by Cowan Bros to AOC Contracts, Londonderry.



Niall Shorten, Adare Hire, Co. Limerick with this new SK55SRX from McSharry TRACK.

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Neville Millar collecting his new Kaeser M43PE from Derek Weir, Glendun Plant.



New Case 590ST sold to Eugene Sharvin & Son, Ballyhorman by Cowan Bros.



SK85MSR and SK28SR delivered to Conneely Builders, Co. Galway from McSharry TRACK.



Robert McIntyre and Sons who purchased a new JS130LC plus at Balmoral Show.



New Epiroc HB3600 Breaker sold to Mills Contracts by WAC McCandless.



New Epiroc HB7000 Breaker sold to McCabe Earthworks by WAC McCandless.



New Komatsu Forwarder 855 sold to Willie O Dwyer by McHale Plant Sales.



New Komatsu WA480-8 being delivered to Michael Quirke sold by McHale Plant Sales Ltd.



New PC138US-11 & PC26MR-3 recently supplied to DMF Contracts by WAC McCandless.



New PC138US-11 sold to McGaffin Contracts by WAC McCandless.



New PC210LC-11 recently supplied to O'Kane Group by WAC McCandless.



New Takeuchi TB235 delivered to D McKee in Kilkeel by Alan Milne Tractors Newry.



One new TOPA 70 Breaker sold to McCormack Demolition Mullusk by F.Rogan Plant.



One new TOPA CP30 Hydraulic compactor sold to D.W. Burke Castlederg by F.Rogan Plant.



Patrick Farrelly, Co. Cavan with his SK17SR and SK55SRX from McSharry TRACK.



Patrick Gallagher of AS Ballantine, Strabane, Co. Tyrone with their new SK270SRLC-5 from McSharry TRACK.



SK75SR-7 (one of two) going to Ward & Burke Construction, Co. Galway from McSharry TRACK.



Takeuchi TB210 with Demoter hammer delivered to Shellfield Builder in Ballymoney by Alan Milne Tractors Newry.



New Metso Vertical Shaft Impactor sold to McCabe Earthworks Ltd by McHale Plant Sales.



New Case CX145D supplied by Cowan Bros to F.P.K Contracts Ltd, Omagh.



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JB Plant Hire collecting another Niftylift trailer boom from Glendun Plant.



JNew Wacker Neuson ET90 with hedge cutter supplied to Peter McMullan by Glendun Plant.



New Case CX130D supplied by Cowan Bros to W.J. Scott, Castledearg.



Demoter S330 sold to Killowen Contracts in Warrenpoint Co Down by Alan Milne Tractors Newry.



New Metso Lokotrack ST2.4 Screener delivered recently to NF Haulage by McHale Plant Sales.



SK140SRLC-5 to Corr and Nyland, Westmeath and Dublin from McSharry TRACK.



One new TOPA 200 Breaker Sold to SB Contracts Dungannon sold by F.Rogan Plant.



One new TOPA 100 Breaker sold to Harrison Contracts (NI) Ltd sold by F.Rogan Plant.



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