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Justin Carrigan General Manager

David Stokes Group Editor

Joel Byers Production Manager

Nick Stokes Designer

Eleanor Blane Accounts Manager

Helen Beggs & Garfield Harrison Publishers

Plant & Civil Engineer is Published by:

4 SM (NI) Ltd, The Old Coach House,

12 Main Street, Hillsborough BT26 6AE

TEL: 028 9268 8888 FAX: 028 9268 8866

Email: **info@4squaremedia.net**

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Welcome back to this, our first print issue of the magazine since March, although we hope you have continued to stay in touch through our recently revamped website and our weekly newsletters.

Spring & Summer are fast becoming distant memories as the dark days of Winter draw in, bringing with it who knows what in these difficult times. But despite the challenges of Covid-19, our industries have thus far come through and here at Plant & Civil Engineer we are looking forward to helping you promote your business activities in any way we can as a New Year approaches.

For now, let's all focus on the positives. It is good to read reports from the likes of McHale Plant Sales that signs of the industry returning to something akin to normal can be seen in 'significant new deals' that have been recorded in recent times. Significantly, too, many companies see a confident future ahead, such as Mid Ulster-based paving manufacturer Tobermore who are investing £30 million and creating 95 jobs in ambitious plans to rapidly grow its business over the next four years.

Another positive comes from Euro Auctions. A summer sale at their site in Leeds was conducted online due to Covid-19 and attracted the biggest audience of first-time bidders in the company's recent history!

So, what have we got for you in this issue? All our regular features and columns are back, plus we turn a special focus on tippers, crushing & screening, compact equipment and articulated dump trucks.

Yes, it is good to be back in print. Don't forget you can also keep up to date with all the industry news 24/7 throughout the rest of this turbulent year and beyond by logging on to our newly updated and redesigned website at www.plantandcivilengineer.com. Of course, you should also be getting our weekly newsletter which is emailed out every Tuesday; if not, do subscribe on our website so you don't miss out. It's FREE!

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



Minister announces 95 jobs and £30million investment by Tobermore Concrete

Mid Ulster-based paving manufacturer Tobermore is to invest £30million and create 95 jobs in ambitious plans to rapidly grow its business over the next four years.

The company is one of the leading paving and walling manufacturers and suppliers in the UK and Ireland.

Making the announcement, the Economy Minister Diane Dodds said: "During such challenging times for companies across Northern Ireland, I would like to congratulate Tobermore on this major announcement. It is investments like this which will drive our economic recovery forward.

"This £30million investment will help Tobermore meet the growing demand for its products throughout the UK and Ireland, whilst also creating valuable skilled employment opportunities in the Mid Ulster District Council area. The jobs, to be created over the next three years, will generate almost £2.5million in additional annual salaries."

Invest Northern Ireland has offered Tobermore £807,500 of support which includes support for its new production facilities in the Mid Ulster area, 95 new jobs and investment in new machinery to help meet the growing demand for its products.



Photographed along with the Minister are Glenn Robinson, Tobermore General Manager, Kevin Holland, Invest NI CEO, and David Henderson, Tobermore Managing Director.

David Henderson, Managing Director of Tobermore, said: "We have experienced extensive growth in recent years due to our exceptional product offering combined with our high levels of customer service, and in return have developed new products to meet the needs of our loyal customer base.

"This investment will put us in a unique position to exploit multiple markets in the coming years, with UK and Ireland our main priority markets. We are excited

by the next stage of our growth plans, which requires the major expansion of our current facilities and significant investment in recruitment and marketing.

"We are delighted to have received the support of Invest NI as we move forward with our expansion plans."

The company began recruitment earlier this year to help it meet customer demand, with 25 of the jobs already in place. A further 70 roles are to be created in areas including sales, operations and production.

Congratulating the company, Kevin Holland, Invest NI's CEO, said: "Supporting businesses with the greatest potential to grow is vital to helping our economy to move forward. We have worked with Tobermore over many years, and recognised the potential the company had to scale rapidly.

"The company participated in our Leadership for Growth Programme, which has provided the senior team with the right tools to move into this new phase of business growth. To support this, we have offered the company just over £850,000 towards this investment and training of its staff to ensure it can grow and meet demand for its products and services."


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Signs Of Return To Normality Reflected In Recent Deals

Signs that the industry may be returning to something akin to normal, albeit tentatively, can be seen in a number of significant new deals that have been recorded in recent times.

From McHale Plant Sales comes confirmation that Roadbridge, long a Komatsu owner, has moved to increase their already extensive fleet with the purchase of 15 new units. Included are seven Komatsu PC210LC-11 excavators, five PC360LC-11s, two PC55MR-

5s and one D85PX-18 dozer – some already delivered and some yet to come.

Recognised for their commitment to machine ownership, the new units add to the Limerick-based contractor's fleet at a time when its list of current projects includes a major road contract in Wales and work on the high-speed London to Birmingham rail project.

Other significant deals secured by McHale Plant Sales have seen McCabe Earthworks add a 70 tonne Komatsu PC700LC-11 excavator to its extensive fleet inventory. Fitted with a hydraulic rock breaker, the machine will work breaking ground on the new Castlebar to Westport road improvement project on which Wills Brothers and BAM are joint contractors.

Another machine going into operation in Mayo is a Metso LT300HP mobile cone crusher purchased by Harrington Concrete & Quarries of Kilkelly for service at their quarry in Castlebar.

Viewing sales of bigger units as 'the life blood of the market' over recent months, McHale Plant Sales director, John O'Brien said "evidence that machines of all sizes are out there working can be seen in the demand for service support, spare parts and utilities supplies", a situation which he believes "points to the likelihood of a down the line increase in sales of smaller machines".



NI Water Wins Top Award for Ormeau Sewer Project

NI Water's Ormeau Sewerage Improvement Project recently received a top award from the RICS (Royal Institution of Chartered Surveyors) Social Impact Awards – the only nationally recognised awards applauding the built environment's transformative contribution to society.

The £5 million project involved the upgrade of major sewers within the Ormeau Avenue/ Lower Ormeau Road, Dublin Road, Bruce Street, Sandy Row and Joy Street areas of Belfast.

Some of the sewers within this area dated back to the late 1800's and were in very poor condition. In addition to the upgrade of the existing sewers in the area, the project included the construction of a new underground Wastewater Pumping Station within an existing car park in Hardcastle Street.

At the height of construction, shoppers and commuters on Great Victoria Street and the Dublin Road were oblivious to the fact a large sewer was being

tunnelled right under traffic and pedestrians at a depth of 2 double decker buses!

Grahame Millar NI Water's Head of Wastewater Capital Delivery said: "The Ormeau project team is delighted to achieve this prestigious award, which recognises companies who have made a difference and brought positive change to the built and natural environments through collaboration and innovation. I would like to pay tribute to the NI Water team and our partners White Young Green and

Dawson WAM who helped make this project such a success.

"This was a challenging project to enhance the sewerage infrastructure in the Ormeau area of Belfast City Centre and we are pleased to have delivered the benefits of reduced flood risk and environmental improvement, whilst also providing additional capacity to support economic development within this area of the city.

"The scheme was successfully completed in Autumn 2019 and has helped local

communities in the area to thrive and develop, as well as supporting the development of the Linen Quarter.

"Every aspect of life in NI depends on the provision of clean drinking water and management of wastewater to safeguard health, underpin economic growth and protect our environment and NI Water is delighted that the Ormeau project has been recognised by the RICS."

Infrastructure Minister Nichola Mallon said: "I want to add my congratulations to NI Water on winning this prestigious award for this £5million project right in the heart of Belfast. There are few services more critical to our health and well-being than the availability of clean drinking water and the ability to treat our waste water effectively, particularly at this very challenging time. This goes to the very heart of our society so it is fitting that this Award recognises the impact on our community and our environment.

"It is well known that we have an ageing water and wastewater infrastructure and I continue to make the case for investment in this critical infrastructure to ensure our communities are places where people want to live, visit, work and start a business."



Tunnel face under Great Victoria Street.

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On your guard: deterring the would-be criminal

There's been a worrying increase in heavy machinery theft in the UK since the introduction of lockdown measures caused by COVID-19.

According to statistics by the Construction Equipment Association (CEA), data showed a 50 per cent jump in the theft of construction machines from UK sites shut down due to coronavirus.

Even though most sites are now operational again, the threat of theft remains. Here, Ian Chapman, product specialist at exclusive Cat equipment and parts dealer, Finning UK & Ireland, explains how to keep your equipment safe and secure by thinking like a criminal.

The theft of heavy machine equipment from construction sites is prolific. It is estimated that the industry loses £800 million a year from theft and associated costs, such as having to buy or hire replacement equipment, loss of business, penalty fees for late delivery of projects and increased insurance premiums. The reasons criminals target construction sites though is obvious: plentiful opportunity, low risk and high financial reward. Construction firms, however, can take proactive measures to protect their equipment, prevent theft and reduce the financial loss that results.



The most common types of stolen equipment include tractors, wheel loaders, utility vehicles and skid steer loaders – with mini excavators being reported as the most stolen type of plant equipment due to their relatively compact size and ease of concealment – with a total of 650 mini excavators reported as stolen nationwide in 2018.

Criminals don't always target the machines in their entirety, however. Components of machines are also at high risk, with tyres, GPS systems and even fuel from the tank commonly being stolen, causing inconvenience and costly delays on site. Larger heavy machinery is difficult to manoeuvre, so criminals often take accessories such as buckets, brakes and generators, which are regularly left unsecured on locked sites overnight.

Securing large equipment using heavy-duty chains or a cable is an effective deterrent for a would-be thief. Portable equipment can also be secured in the same way; using chains to secure tyres, or removing them completely to be stored in a locked enclosure. Smaller machines can also be safeguarded by using a bit of real-world Tetris; by arranging large machines to surround your smaller, easier-to-move equipment, any attempt at possible theft would be met with a difficult, noisy and time consuming task.

Sadly, where there's a will, there's often a way and if you are unfortunate enough to have your machine equipment stolen, the odds are stacked against you for seeing it again, with a less than ten per cent recovery rate, largely due to identification and delayed reports to the police. Improving chances of getting equipment back is getting easier though, advances in technology including GPS tracking and telematic systems, showing the machines physical location, many of these systems come as standard in all new Cat machines, and can be added on/retrofitted to offer the same protection to used equipment.

Unfortunately, there are no guarantees of complete safety on construction sites, and heavy equipment theft doesn't seem to be slowing down anytime soon. However, by being proactive physically around the site and taking out comprehensive commercial insurance such as the Cat Insurance programs offered by Finning UK & Ireland, can help firms avoid the headache of costs, reports and replacement, and protect the investment made in heavy equipment.


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KATO MAKES A WELCOME RETURN TO THE IRISH MARKET

The Kato brand is not entirely new to Ireland; they had a good presence in the country in the 1990's, but the manufacturer stopped bringing machines into Europe a few years back and fell out of favour in the local marketplace. Now, after a 10-year absence, Kato are back.

McSharry Bros Plant Sales have decided to bring the brand back to Ireland to replace their Hitachi portfolio which was dropped in 2018.

"We'd been looking for a good quality Japanese product," says Ronan McSharry, "it was Japanese or nothing, so we made contact with Kato Imer, after spending some time considering what was available.

"We had a number of meetings with them over the course of a year or so and decided to take on the Kato brand."

While the Kato dealership primarily covers the Republic of Ireland, McSharry Bros can also sell into the north where no dealer has been appointed.

"Kato excavators are quite expensive, they are not price friendly, but that is compensated by the fact their quality and durability are extremely high. They have an excellent reputation, especially in countries like Australia, New Zealand and throughout Asia, where they are held in the same esteem as Hitachi, Komatsu and other top brands.

"From an end user point of view and from a dealer perspective, if a machine is troublesome, it is no good to either party, but the Kato scores highly for its robust build quality and outstanding reliability."

Adds Ronan: "However, because Kato has a relatively short history in Ireland they are not so well known here, but we see the brand having great potential in the local marketplace.

"Initial reaction and feedback from our customers has been very good; they may not particularly like the price, but they do appreciate the quality of the machines. We have already delivered a few mini diggers and 13 tonners.

"One of our recent customers who had been operating Kato machines acquired in 2004 and 2007 traded in the latter for a new 13 tonne Kato HD512-7 machine because he is a big fan of the brand."



Indeed, there are still quite a few Kato owners in the country from when the machines were more actively promoted in the past, and McSharry Bros expects those who are familiar with brand to take an interest in the new range. Currently, the machines are well priced to compete with other top brands like Hitachi.

Kato excavators – the range extends from 0.8 to 45 tonnes - are extremely durable and hardworking, comfortable to operate with an adjustable seat and wrist support. They have thick rubber tracks and corrosion-free fuel tanks and are easy to maintain and service with wide opening engine covers and aluminium radiator parts.

Kato offer a line-up of 12 mini excavators, ranging from 0.9 tonnes up to 8.5 tonnes; some models are assembled in Italy, while others are made in Japan.

The biggest mini excavator in the range is the HD35V4 which is built at the manufacturer's San Gimignano plant in Italy. A comfortable cab with good all round visibility and controls that are sensibly and logically positioned makes this an attractive machine for the likes of a wide variety of contractors who work in confined sites.

It is powered by a 3-cylinder Yanmar 3TNV88 engine which delivers 17.5kw @2,200rpm, and with easy to reach filters and service points thanks to a wide opening

rear panel door, routine maintenance can be carried out with the minimum of fuss..

Another popular model is the Kato 12VXE mini, which is small enough to pass through a door and can be comfortably accommodated on a truck in the 3.5 tonne category. Not only that, but a 12.9hp engine that delivers a digging depth of 2,010mm, gives it the same performance and break out force as a 1.7 tonne machine, in a compact, zero tail swing package, with the added ability of being able to pick up a 1.5 tonne bucket with ease.

There are six models in the company's skid steer loader range, while Kato's tracked dumper range has eight models from 400kgs up to 3000kgs, including the popular Kato Carry 107 HT, a 700kg, high tipping tracked dumper, which comes with an expanding undercarriage as standard, and two speed tracking. Kato is actually the largest manufacturer of tracked dumpers in the world, offering the most extensive range.

McSharry Bros Plant Sales are currently building up their stock of Kato machines as the construction industry picks up in the wake of the lockdown caused by the Covid-19 pandemic, and with some generous incentives on offer now might be a good time to take another look at the brand!

manufacturer



HIGHWAY MAINTENANCE PRODUCTS THAT MEET THE SPEC. FROM ASPHALT & AGGREGATES TRADING



The UK has a backlog of highway maintenance funding with the 2020 ALARM Survey illustrating a total shortfall in annual carriageway maintenance budgets of £826 million in England and Wales alone.

Northern Ireland is more dependent on roads than other parts of the UK. The Barton Review of the Structural Maintenance Funding Requirements for the Department for Infrastructure (Roads), which was published in November 2018, estimated the backlog in Northern Ireland to be £1.2 billion. It also highlighted that the Annual spend on the Structural Maintenance of our Roads should be £143 million.

With this in mind, it is vital that the work carried out to maintain our network is done so efficiently, by competent Contractors, using the correct materials and to the appropriate standards.

Asphalt and Aggregates Trading Limited offers a range of products specific to the Highway maintenance sector to help fulfil the requirements of the various Specifications used across the UK and Ireland.

EZ Street

EZ Street Asphalt is a HAPAS approved Permanent Cold Lay Surfacing Material that is ready to use, works in water and all weather conditions and has a long shelf life in the bag. Suggested applications include potholes, utility cuts, around water valves & drains, car park repairs and edge repairs. It is also suitable for DIY projects with no specialist training required. EZ Street meets the requirements of the SROH (2019), NIRAUC and TII Specifications.

As with any asphalt, Asphalt and Aggregates Trading recommend painting the edges of the repair area with a suitable bituminous joint paint.

Benefits of EZ Street include:

- Permanent repair first time
- Does not contain recycled plastics
- Fume free
- No bond coat required
- Works in water
- Low carbon product
- Open to traffic quickly
- 12 month usable shelf-life

Mastic Asphalt

Paving Mastic Asphalt is increasingly used as a reinstatement alternative to Hot Rolled Asphalt or SMA, particularly around Manhole covers and other ironworks.

Asphalt and Aggregates Trading supply MBM which is a "Mastic Asphalt for use on roads, airfields and other trafficked areas produced

in accordance with EN 13108, Part 6", meeting both TII and SROH (2019) Specifications. MBM is also suitable for paving car park decks, bridge decks and drainage channels. Pre-Coated chippings can be applied to the surface to match surrounding HRA although MBM product also contains high PSV grit within the mix to improve skid resistance. Mastic Asphalt is heated on site using a mastic boiler and laid by hand, levelled, chipped and finished. Roller compaction is not required.

Benefits of MBM Mastic Asphalt are:

- Heated on site in quantities as required
- Durable and waterproof
- Can be trafficked in less than 30 minutes after installation
- No need for rollers or large pieces of plant on site.
- No travelling to or waiting at Asphalt plant
- A fully recyclable product

Joint Paints

Painting joints is a critical part of the preparation for laying asphalt. All standard asphalt specifications including SHW (Clause 903.22), SROH

(S6.8.7), NIRAUC (S6.5.2.2) and TII Series 900 (10.1.8), require asphalt joints to be cut and painted with bituminous joint paints.

Asphalt and Aggregates Trading offer a range of both hot and cold applied joints paints suitable to meet the Specifications for large and small-scale asphalt operations. They also supply HAPAS approved Overbanding products, which, although not mandatory, are highly recommended by the various Specifications.

While Asphalt and Aggregates Trading supply many other products, those highlighted above are examples of some which help in the particular fight to repair potholes and utility reinstatements.

Asphalt and Aggregates Trading Limited
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in profile

WHITE SKIP HIRE CLOCK UP OVER 16,000 HOURS WITH TWO SANY SY215C'S

White Skip Hire of Dagenham has been in operation now since 2015, when it first hired a civil engineering spec Sany SY215C, 20-tonne excavator, adding another unit 6 months later. At its expanding facility, the business performs both manual and mechanical sorting operations, with some shredding and screening of relevant materials that are commonly used to create Refuse Derived Fuel products.

Processing over a hundred skips of waste a day, as well as HGV loads from larger construction clients, White's has also recently taken on an old woodyard to expand its operations. It's a bit of a success story that has been through its own challenges in the past, with a fire destroying some of its sorting capacity a few years ago.

But for Director, Neil Richardson, the secret of his success has been to hire great operators and his fitter

who between them have managed to keep the fleet of equipment working incredibly hard.

Whereas the other equipment used on site has been specified for waste handling applications, the two Sany SY215C machines are standard units specified for civil engineering projects. The SY215C's onsite are both tier four interim units, with an operating weight of 21,750kg and are powered by an Isuzu 4HK T4 engine with a rated power of 128/2000kW/rpm. The latest tier 4 final version of this model has an operating weight of 23,550kg with a rated power of 125/1900kW/rpm coming from the latest Cummins QSB6.7-C164 engine.

The first of the two Sany SY215C's, which was also the first unit in the UK, was provided by H&D Plant Hire, after the company had completed a local civil engineering job that it was purchased for.



It was originally only going to be hired for six months, whilst Neil looked at other equipment to bring into the site.

But having coped well re-handling the various waste types, including bricks, blocks and concrete from demolition works to general household and garden waste, Neil decided to invest in another unit. He later bought the original machine off the hirer and they are both still working today in his waste sorting shed.

Having clocked up over 10,000 hours and 6,000 hours respectively, the civil engineering spec machines continue to cope well with the dusty and harsh environment, as Neil comments:

"To be honest I never expected the original machine to be able to cope. But what I didn't know at the start, was that the machines were designed to cope with hotter and therefore dustier weather conditions.

"So, what we normally do is blow out the radiators once or twice a day, depending on whether we are doing extended shifts. The operators also do regular daily checks of oil, water and coolant levels, working with the fitter that we have onsite to identify any maintenance requirements they come across.

"The main tasks given to the machines are to sort the waste for processing



Director, Neil Richardson



THE SY215C'S ONSITE ARE BOTH TIER FOUR INTERIM UNITS, WITH AN OPERATING WEIGHT OF 21,750KG AND ARE POWERED BY AN ISUZU 4HK T4 ENGINE WITH A RATED POWER OF 128/2000KW/RPM.

with one machine feeding selected waste up to another level in the shed, while the second machine is used to load waste into a trommel. The machines also play an important part in sorting out heavy construction materials, tidying hardcore and muck bays. And on the odd occasion, when another unit is out for maintenance, or we are very busy with customers, their buckets are removed and grabs attached to help load customer wagons."

For Sany product and customer support specialist, Neil Tilley, the experience of working with White Skip Hire has been very positive.

"Since the first hired unit came onsite, I have been supporting Neil and his team. Five years later and even though they look a bit scruffy, the bones of the machine are in good health. This is thanks to the way the operators and fitters have looked after them and the relationship we have built up with the business. Being standard machines, they have no reverse fan kits, or upgraded air filters. But being designed for hotter climates, they have high flow wide radiators fitted as standard and a rear-view camera, which is particularly useful in a yard environment.

"Also fitted as standard is automatic overheat protection, so if the temperature of the engine goes up to 98 degrees, it drops the throttle back down and therefore gives the operator a clear indication that the radiator is blocked. A good example of when this might happen on a shift at White's is if they

are processing a lot of plasterboard, as the white dust is particularly good at clogging up filters in 3-4 hours. By dropping down the throttle the operators automatically know they have to blow the filters.

"In the time the units have been onsite, they have been very reliable and probably the most significant thing we have replaced is the air conditioning unit in one of the cabs, which was covered at the time. What is also clear to me is the way the fitter has got to

know the machine over time. The fact that they can now just call me for any parts they are not familiar with, means that my journeys to the site have been few and far between."

With many more hours left in the tank and plenty of work to do, Neil of White's concluded: "Once we have got our new yard set up and running, I will definitely be bringing in another Sany machine, as I can't fault them, to be honest."



CASE HELPS KEEP ISLE OF MAN CONNECTED IN LANDMARK PROMENADE PROJECT

The Isle of Man Government has embarked on a £25 million investment project in its capital Douglas. The project, code-named MyProm, will see a complete overhaul of the popular promenade and the first reconstruction of the highway since 1935.

The initial stages are already underway by groundworks company Stephen Christian & Sons, involving the installation of a new utility system of electric, water, gas, telecoms and street lighting. At the heart of this activity is a CASE Construction Equipment TR270 Compact Track Loader with CASE T450 Rock Wheel attachment.

"This is a landmark project for the Douglas community," explains Richard Christian, Director of Stephen Christian & Sons. "We're trusted with a project that means a lot to the people who live here. It will drive additional tourism to this area and improve the livelihoods of those who work in our island's capital. We've worked with Manx Utilities for many years and a big part of this longstanding relationship is the quality of our work and the reliability of our equipment."

Stephen Christian & Sons has been a CASE customer for over 30 years with a current fleet of ten CASE machines. CASE dealer Dennis Barnfield Ltd recommended the CASE TR270 Compact Track Loader and the CASE T450 Rock Wheel attachment.

Compact & Powerful

"The CASE Compact Track Loader is unrivalled when it comes to utilities work," explains Graham Barnfield, Managing Director, Dennis Barnfield Ltd. "It may be compact, but it



packs a punch when it comes to power and torque and it delivers consistent performance in the most demanding conditions. We supplied a high-flow hydraulics package with this machine to deliver as much power as possible to the rock wheel. This package supplies 55% more flow than the standard hydraulics package and comes with a 14-pin electric plug socket to operate the attachment. This genuine CASE Rock Wheel attachment gives the operator complete control while digging trenches with ease."

"Trenching is demanding on our operators," continues Richard Christian. "They have to work fast against tight deadlines and

that means long days. The CASE Compact Track Loader performs consistently and reliably in these challenging conditions. The cab is quiet, spacious and comfortable, with full air conditioning and radio, so operators can work the long hours needed to get the job done without fatigue.

"There is nothing else on the market quite like the CASE T450 Rock Wheel attachment. It's a great tool for our utility contracts and cuts through the road with ease. On the Douglas promenade job, we're cutting through 200mm of reinforced concrete and 50mm of asphalt with no problems. The tool creates a consistent trench every time, cutting to the exact width of the wheel, which is perfect for the micro-trenching needed for telecom jobs. When you're creating kilometres of trenching, the time savings add up. Put simply, the rock wheel saves us time and money while ensuring that we deliver a consistently high standard of work."

The CASE T450 Rock Wheel is also available for the new CASE B-series range of Skid Steer Loader, launched in March 2020.

"Attachments only increase the versatility of CASE compact machines," said Joseph O'Grady, Business Director Northern Europe, CASE Construction Equipment. "A landmark project like the redevelopment on the promenade in Douglas offers the ideal arena to showcase the power and flexibility the machines offer. We are delighted that it has been such a success and look forward to seeing how the works progress."



CASE Releases SiteWatch Telematics Platform with New Dashboard and Simple Navigation

CASE Construction Equipment launches the next generation of its SiteWatch telematics platform with an all-new dashboard, more intuitive navigation and new overview sections that spotlight critical information without requiring the user to search extensively for the data.



CASE SiteWatch is an option available to order from the factory for all CASE equipment. For the aftermarket SiteWatch is available as retrofit with a subscription plan of 1 to 5 years.

SiteWatch complies with the Association of Equipment Management Professionals (AEMP) 2.0 telematics standard, ensuring that the solution is compatible with mixed fleets.

"The new CASE SiteWatch telematics platform presents users with a high level of critical data on a very clear and intuitive dashboard, whether you're at your desk or on your tablet in the field," says Marnix Korpershoek, Construction Equipment Digital Precision Solutions and Telematics Sales & Support Manager Europe, CNH Industrial.

The new dashboard features an easy-to-read horizontal menu at the top of the screen above five widgets that focus on core operating information such as an equipment summary, equipment search, fuel level reports and alarm status. An easy dropdown menu makes main reports and fleet and maintenance overviews just a click away. Alerts for geofence, curfew and fault codes are also immediately visible in the dashboard.

SiteWatch telematics help fleets of all sizes work more efficiently in many ways, including:

- Simplified fleet management: Always know where each machine is, what its working status is and if maintenance or service is required.
- Understanding equipment utilization: Knowing when and how equipment is being used can improve profitability/total cost of ownership for the equipment you already own, and help you make smarter equipment buying/renting decisions.
- Analyzing workload and productivity: Telematics gives fleet managers and business owners excellent perspective into how equipment is operating, and whether they are getting the most out of their equipment and crew on each project.
- Real-time alerts/alarms: Time for an oil change? Engine temps running outside of the preferred operating range? Fleet managers and business owners receive alerts in real time to make them aware of machine conditions that require attention.
- Partner with dealer on preventive maintenance: You can grant your local CASE dealer access to your telematics data to more proactively partner with you on preventive and planned maintenance.
- Equipment security: Telematics helps locate stolen equipment — which, if recovered and returned by the authorities, is much less expensive than the resulting downtime and replacement costs.

These are just a few ways that the new SiteWatch telematics platform from CASE helps improve your equipment operations.

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Ashbourne Recycled Air Filters Working to Help the Environment

Ashbourne Recycled Air Filters are helping their customers to reduce their impact on the environment by rolling out their filter recycling across the country.

Last year alone, the company succeeded in diverting over 20,000 air filters of all shapes and sizes from HGV & mobile plant engine filters to compressors filters & dust collector cartridges. This commonly forgotten waste stream generates over 5,000 tonnes of waste each year which ends up either being incinerated or sent to land fill if it does go through our filter recycling program.

That's an impressive figure which can only grow as more and more companies recognise the need to increase their efforts to tackle climate change as every little bit helps.

Ashbourne Recycled Air Filters Ltd was originally established

in the mid 90's as Envirotech, a small family run business with a core value of reducing waste.

In 2006 Envirotech was rebranded Ashbourne Recycled Air Filters Ltd and started to explore different industry sectors across the UK with a very simple business philosophy - to help save costs and more importantly reduce their carbon footprint by stopping as many filters as possible from going to landfill.

Today, as a leading air filter refurbishment company, it operates a filter recycling programme across a multitude of different industries - from logistics and mobile plant hire to public transport, quarrying and agriculture.

Currently, its air and DPF filter recycling programme is being used by over 60 companies such as Tarmac CRH Group, Finning (UK) Ltd, Breedon Group UK and Aggregate Industries UK Ltd.

IPS Ireland Launches Brand New Website

Dundalk based IPS Ireland, a leading supplier of Access Platform & Material Handling Parts throughout Ireland, have launched a newly redesigned website at ipsirelandparts.ie

The new user-friendly site features a streamlined, modern minimal design with improved functionality.

"Our primary goal during the redesign process was to create a more valuable, user-centric and responsive resource across all platforms and devices.

"Specifically, we wanted to focus on making it easier for our users to learn and locate valuable information about our services for their particular application or industry not only at their desk but on mobile devices."

Added Gary Power, Parts Manager IPS Ireland: "We are very customer focused at IPS and having our new rebranded website is the next step to supplying an even better service. It is adapted to any device so our customers can easily log-on when on the go via mobile or tablet. Finding what you want is only a click away.

"We would like to thank all the team in Vodatrade for their level of professionalism and can-do attitude throughout the entire project."

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CARTY GROUP SEES ALL SIDES OF **GROUNDFORCE'S** OCTAGONAL COFFERDAMS IN COUNTY SLIGO

Octagonal-shaped cofferdams provided by specialist construction supplier Groundforce have helped save space, time and money on Irish Water's €9.9 million upgrade of two sewage treatment works.

The 15m internal diameter cofferdams were required for the construction of a stormwater holding tank and clarifier for the wastewater treatment plants at Ballymote and Collooney in Co Sligo. They are part of Irish Water's €5.5 billion programme to meet increased demand, comply with Irish and European Union law, and reduce flood risk.

Currently, sewage from Collooney and Ballymote is treated by an old, sub-standard treatment system which has no stormwater storage capacity. As well as providing this, the upgraded wastewater treatment plants will improve the quality of the final effluent leaving the plants and the water quality in the Owenmore River.

In addition to upgrading the existing wastewater treatment facilities to cater for an equivalent population of 3,100, the project also comprises the construction

of phosphorus removal facilities and primary and secondary treatment plants.

Designed to enhance critical local infrastructure and remove impediments to social and economic development in Ballymote and Collooney, the project is being delivered by Veolia, with specialist temporary works contractor Carty Group installing the Groundforce cofferdams.

Company owner, Iarla Carty said: "The existing services and tankage had made it impossible to use traditional square cofferdams for excavations so in conjunction with Groundforce we came up with two 15m internal diameter octagonal sheet piled structures which use a smaller site envelope. This provided adequate excavation protection for the construction of a circular precast storm tank and clarifier.

This solution proved both more economic on available land usage and also for volumes of backfill material used on completion of the structures"

Groundforce general manager Joe Lenihan explained that the octagonal cofferdams reduced the excavation footprint by almost 30% - a great benefit on a congested

site. They also allowed for significant cost savings compared to traditional square or rectangular cofferdams.

He said: "The tank excavations were completed very successfully with the octagonal shape of the Groundforce cofferdams providing great benefits in space saving and a reduction in excavation and backfill costs on what is a tight site.

"As the strength of the system is dependent on the shape, an accurate installation is very important. Thankfully the right crew were on the job. Carty Group are a very experienced contractor and executed the installation perfectly."

The octagonal system is one a range of solutions Groundforce can offer customers looking for a clear opening within which to construct their structure. "This is becoming ever more important with tank capacities increasing as Irish Water continue to invest in the upgrade of water treatment plants across the country," added Joe.

Both Ballymote and Collooney plants are expected to be in operation by the end of 2020.





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Minister of State Visits Moore Concrete

Minister of State at the Northern Ireland Office, Robin Walker MP, recently visited Moore Concrete, accompanied by the Mayor of Mid and East Antrim Borough Council, Councillor Peter Johnston, and the Deputy Mayor, Councillor Andrew Wilson.

The Ballymena based precast concrete operation manufactures a wide range of standard and bespoke products for use in the civil engineering, agriculture and construction sectors throughout the UK. The company employs 150 people and, last year, generated a turnover of just over £12m.

The Minister's visit allowed him to gauge, at first-hand, how Moore Concrete is coping with the Covid-19 pandemic. The company has remained open for business throughout the crisis. Robin Walker met members of the Moore Concrete management team and was given a tour of the manufacturing site.

Moore Concrete managing director Wilbert Moore commented: "Our primary objective has been to ensure the health and safety of our staff. Every possible step has been taken to ensure that social distancing and all other relevant Covid-19 preventative measures have been in place since the onset of the pandemic.

"These included the use of the furlough scheme and encouraging staff to work from home, where possible.

"We formed a Business Continuity team with representatives from departments across Moore Concrete at the start of March, reviewing government guidance, engaging with employees and adjusting our approach as the situation developed. Working together was essential in navigating the ever changing landscape.



Moore Concrete managing director Wilbert Moore (right) meets Minister Robin Walker.

Resurgence

"Our aim was to remain open if possible, supporting essential industries including several major infrastructure projects and the agricultural sector, fulfilling our commitment to customers, with an overriding emphasis on the protection of our employees. Immediately post lockdown production fell by 40%. However, over the next few months we have gradually increased output back to pre-lockdown volumes.

"Manufacturing output is currently at the highest levels achieved this year. Furloughed staff have returned, and overall employment is up 12% from the start of March. We are currently actively recruiting for additional positions.

"We have seen a resurgence in civil engineering and house building activity across the UK over recent weeks. The farming sector accounts a very significant

proportion of our turnover. As everyone will be aware, agriculture has been operating at full throttle throughout the pandemic. This has been reflected in the continuing investment taking place on farms throughout the UK."

Commenting on the future prospects for his business, Wilbert Moore focussed on the upcoming challenge of Brexit. He said: "With the majority of our products sold in GB it is imperative that there are no restrictions placed on trade between Northern Ireland and the rest of the UK.

"We also need to see continuing and consistent investment by government in infrastructure, agriculture and housing."

Opportunity

Minister Walker expressed his delight at having the opportunity to visit Moore Concrete. He commented: "My visit to Moore Concrete was a good opportunity to hear about the issues experienced by the company and the wider construction sector during Covid 19."

"I was pleased to be able to visit the firm's Ballymena premises, to learn about the value of UK Government support and to hear how Moore Concrete made great strides in ensuring they remained open for business while always keeping health and safety at the forefront of their minds.

"The UK Government will continue to work collaboratively with businesses, the Northern Ireland Executive and local partners to get the economy back up and running, laying the foundations for a stable and sustainable economic future."

Further information is available on the Moore Concrete website: www.moore-concrete.com

Nationwide Platforms introduces SkyShield

Nationwide Platforms has introduced its latest innovation in safety, SkyShield, which has been designed to minimise the risks of COVID-19 when installed on its range of truck mounted platforms.

Developed by the company's dedicated research and development division, BlueSky Solutions, SkyShield is a lightweight screen which provides a protective barrier between the MEWP operator and occupants in the platform basket.

Designed in line with the latest COVID-19 guidance from the UK Government and the International Powered Access Federation (IPAF), SkyShield minimises the risk of exposure to COVID-19 by preventing workers from potentially

coming into contact with a contaminated surface or with someone who might be carrying the virus. As a result, workers who would otherwise be unable to maintain a two metre distance within the confined work platform basket, are now able to safely carry out their tasks at height.

Made from a shatterproof polycarbonate material that weighs less than 15kg, SkyShield provides a physical barrier across the entire width and height of the basket and is transparent to maximise operator visibility and communication. It is also compatible with other BlueSky Solutions innovations such as the SkyTel™ antenna handling device and it does not affect the machine's working wind speeds.

Alexis Potter, Director of Specialist Vehicles and Tracked Booms at Nationwide Platforms, said: "This is just one of many safety measures we are offering our customers to help protect them from the risks of COVID-19. Ensuring workers maintain two metre distancing when it comes to using MEWPs can be very challenging - especially when the majority of platform baskets measure less than two metres. The use of SkyShield when using our truck mounts is the perfect solution to this problem and once installed the customer is free and, importantly, safe to carry out the job at hand."

SkyShield is currently available for Nationwide Platforms' range of truck mounted platforms with working heights from 22 to 90 metres, with plans to cover the remaining specialist

vehicles truck mounted models in the coming months.

As well as the introduction of SkyShield, Nationwide Platforms has also implemented a number of safety procedures to ensure its customers and employees are protected. Part of this includes cleaning and sanitising every machine in its fleet before and after every hire using the latest Quill Hurricane atomising sanitation system. Not only does it kill 99.9% of all bacteria across large surface areas, it can also provide up to 14 days protection against the COVID-19 contamination.

For more details on how Nationwide Platforms is supporting its customers and the UK during the COVID-19 crisis visit: <https://www.nationwideplatforms.co.uk/en-gb/covid19>

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(600 KG)**



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FUNCTIONALITY**



KOBELCO SETS A HIGH STANDARD WITH ITS NEW SK130LC-11 EXCAVATOR

Operating in the highly competitive and popular 12-14 tonne class, the new Japanese manufactured Kobelco SK130LC-11, available from McSharry TRACK, has certainly caught the attention of operators across the country.

Delivering what the customer wants - productive mechanical power, operating speed, refined operator comfort and fuel efficiency - this premium Kobelco excavator is powered by a latest generation Stage V compliant Isuzu R-4JJ1XDDV-A01.

Power output for the 2,999cc engine is rated at 78.5 kW (106.7 PS) to deliver strong work performance, including a best in class drawbar pulling force of 141 kN and a high-rated bucket digging force of 105.4kN.

Offering exceptional lifting capability and stability, the SK130LC-11 comes with a thoroughly modern and spacious cab



featuring easy-to-use operating controls and systems not unlike today's premium cars.

A 10-inch colour monitor - the largest in-cab visual information screen within the excavator industry - provides easily accessible and programmable menu functions, machine status information and provides clear rear and right-side views from the standard-fit upper deck

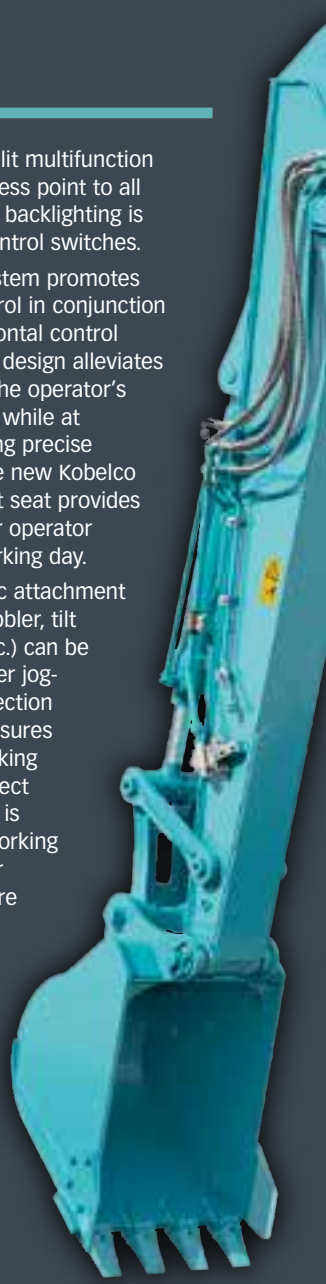
cameras. An LED back-lit multifunction jog-type dial is the access point to all monitor functions. LED backlighting is also standard on all control switches.

A revised hydraulic system promotes smooth hydraulic control in conjunction with shorter and horizontal control lever movements. This design alleviates stress and tension of the operator's fingers, wrist and arm, while at the same time providing precise control movement. The new Kobelco branded Grammar seat provides posture adjustment for operator comfort over a full working day.

Seven pre-set hydraulic attachment modes (e.g. bucket, nibbler, tilt rotator and breaker etc.) can be accessed via the master jog-dial and on-screen selection modes. This system ensures a greater range of working versatility and the correct hydraulic performance is delivered to suit the working task. Furthermore, four customisable modes are available and can be pre-set by service engineers to extend the range of hydraulic operations for additional machine roles.

Quick Hitch

Kobelco's famed attention to detail isn't always apparent. One such example is the new FOPS Level II roof guard. Previous roof guards have always been rigid mounted for safety and security. However, this latest roof guard features a swing-open door section so the external roof glass can now be easily cleaned for visibility without reducing its structural integrity.



Other areas under the design spotlight include repositioning the safety valve on the cylinder arm to further minimise the risk of accidental contact with site obstacles, and the mounting lug dimensions on the standard bucket have been uprated to suit the available digging force.

A large fuel tank of 280 litre capacity reduces refuelling downtime and includes a fuel cap that meets EN regulations to prevent fuel spillage. Parallel front window wipers are now in place on the front window and give a larger swept contact area – the wiper system also has 'one-time' use selection. Internal LED lighting that reacts to door opening / closure

and main ignition on / off further promotes operator safety.

Speaking about this SK130LC-11, Kobelco's Product Manager, Peter Stuijt, said: "The 12-14 tonne operating class is populated with smaller contractors and rental fleet companies who specialise in lighter machines that are productive through being versatile, powerful and economic from low running costs and extremely competitive initial purchase price – this new SK130LC-11 more than fulfils these requirements."

He adds: "The fact it is emissions Stage V compliant extends the already impressive specification of this excavator, as do the latest operating features and increased operator comfort, all of which raise production efficiency by some degrees. Add to the mix Kobelco's famed reliability and durability, then it is clear the SK130LC-11 is the obvious choice in this operating class."

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ARE DELIGHTED
TO OFFER THE
SK130LC-11 TO
CUSTOMERS.
IT SETS NEW
STANDARDS AND
WE BELIEVE IT'S
A REAL CLASS
LEADER!"**



New Managing Director at Saint-Gobain Construction Products Ireland

Pádraig Barry has been appointed by Saint-Gobain Construction Products Ireland as their new Managing Director, following the retirement of Brian Dolan in June.

Pádraig has worked with the Saint-Gobain group since 2007 and has spent the last 10 years in the UK as Managing Director of Saint-Gobain Weber (UK & Ireland). Prior to this, Pádraig was the Managing Director of Isover Ireland also part of the Saint-Gobain group.

Before he joined the Saint-Gobain group in 2007, Pádraig worked in the medical device sector- mostly in Ireland- and spent 15 years at senior General Manager level with a strong focus on manufacturing operations, as well as product development and marketing.

During his career with Saint-Gobain, Pádraig has a proven track record in leadership and management, and has amassed an extensive knowledge of the group and the markets it

operates in. In his new role as Managing Director, Pádraig will be charged with developing and executing business strategies for the Saint-Gobain brands Gyproc and Isover in Ireland. He will also be responsible for leading and guiding the executive team, overseeing the company's business operations, as well as continuing to grow and enhance Saint-Gobain's brand and profile as leaders in the Irish building materials market.

A Limerick native, Pádraig holds a BSc in Manufacturing Technology and went on to study for an MBA from the University of Limerick. He has a passion for sports - particularly hurling, running, rugby and golf.

Says Pádraig Barry: "I am acutely aware of the talented team working with the firm across Ireland and the UK, so I am honoured to be appointed as Managing Director. I look forward to engaging with my colleagues and our customers in my new role over the coming months

to help create healthy, safe and sustainable buildings for Ireland.

"As Managing Director, my focus will be on continuing the successful growth of this business and to use my experience working in the different markets to help guide our team to meet any challenges head on. I look forward to helping to guide our talented team to achieve our organisational objectives, and to continue to grow our reputation as leaders in the Irish building materials market."

Saint-Gobain in Ireland is made up of some of the best known and respected companies in the construction and industrial sectors, including Gyproc, Isover, Weber, Ecophon, JP Corry, Bassetts, Performance Plastics, PDM and Life Sciences. Together they offer a range of high-performance, energy-saving products and solutions to help create a more sustainable built environment. Saint-Gobain employs approximately 800 people on the island of Ireland.



Pádraig Barry.

Saint-Gobain designs, manufactures and distributes materials and solutions, which are key ingredients in the wellbeing of each of us and the future of all. They can be found everywhere in our living places and our daily life: in buildings, transportation, infrastructure and in many industrial applications.



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COST SAVING GENIE BOOM LIFTS REACH NEW HEIGHTS

In today's environment, maximising your rental profit is more important than ever. Genie understand this, which is why its team has introduced a comprehensive boom line-up that allows you to significantly enhance your profitability and lower your total cost of ownership by matching the right equipment to your customers' specific jobsite needs.

For example, if your customer needs to lift heavy equipment and put three people in the platform, the Genie XC line offers the industry-leading lifting capacity your customers require to tackle the most demanding heavy-lifting jobs.

For jobsites that require indoor/outdoor capability, Genie's Fuel Electric models offer the most advanced and reliable true hybrid machines in the industry, and if your customer needs to get to height for tasks such as inspections and maintenance, tree trimming, painting or electrical work, the new J series to complete our model line-up.

"Because the J series was designed from the ground up to deliver just what your customers need for these common tasks—the result is a high-performance machine that will cost you less to own than any comparable boom on the market," says John Chandler, Genie's Sales Director UK & Ireland.

"Taking a closer look at how the J series, combined with the XC and FE booms lifts

in your fleet, can maximise your rental profitability while delivering the quality and performance your customers expect.

"We are focused not only on delivering the quality you need and expect from a machine bearing the Genie name, but also on maximising your rental return on invested capital by ensuring you can match the right equipment to the job. While no other boom can beat the Genie XC series when heavy-lifting capabilities are required, XC booms can be overkill for many jobs, including maintenance and inspections, or other routine tasks that require only simple tools. This is where the J Series is the perfect fit."

Peak Performance

Genie's engineering team began developing the J series boom by focusing on attributes that optimise the total cost of ownership, uptime and delivery costs.

The J series has been designed to deliver peak performance for everyday jobs, including painting, maintenance and general construction work requiring only basic tools. By right-sizing every part of the J boom to specifically meet the needs of that type of work, Genie were able to design a machine that reduces total cost of ownership by up to 20%.

Many of those TCO benefits are driven by the J boom lift's two tube boom, single

envelope mast design, which is much simpler than a standard dual envelope and is much easier to service. Additionally, the J boom has no length sensors to worry about, which reduces costly inspections and the potential need for parts replacement.

Additionally, a 30% reduction in wearable components combined with significantly fewer overall inspection points means less time and money spent on maintenance. And, because the less time is spent on maintenance, your J boom will spend more time getting work done in the field.

Added John Chandler: "We've also maximised uptime with the J series' hydraulic system design, which requires 33% less fluid volume than common booms in comparable height classes. This feature has a direct and positive impact on replacement fluid costs and reduces the time needed to perform service tasks."

One of most significant advantages of the J series is its best-in-class weight specifications. Weighing 1/3rd less than comparable booms, the J series also features an optimised transport position, which allows a single trailer to transport a mix of equipment or to deliver up to two S-60 J boom lifts trailer on the same. By optimising transport options, the S-60 J boom can provide significant savings in overall logistics costs for your business.

As an added benefit, the J series also keeps ground pressure low, which is perfect for jobsites with sensitive ground pressure.

Extra Advantages

"But our team's commitment to designing a machine that adds value to your fleet doesn't stop there. By optimising the structures, hydraulic system and overall machine weight, the J boom is able to offer a less complex, lower maintenance 24 hp engine that is finely tuned to provide the performance needed to get the job done with the added benefit of less complicated emissions controls and internal electronics," adds John.

Every component on the S-60 J has not only been right-sized to deliver exactly what is needed, the components and machine also have been put through the same rigorous testing performed on every Genie machine, ensuring the durability and quality that Genie is known for.

Because it is a Genie machine, the S-60 J boom shares commonality in design, parts and accessories with other Genie products in your rental fleet. Common



options and accessories for Genie booms are also available for use on the S-60 J model, including Genie LiftConnect™ telematics, Genie Lift Power™, the panel cradle and pipe cradle attachments, positive air shutdown system, Genie Lift Tools™ Access Deck Fall Arrest bar, and more.

Higher Reaching


Another new addition to the next generation of Genie® S® telescopic boom lifts, the Genie S-80 J model is a higher reaching version of the Genie S-60 J model.

The Genie S-80 J model has an unrestricted platform capacity of 300 kg (660 lb) to get the job done with two occupants, plus tools, and a 1.8 m (6-ft) jib, leading length and capacity for low-weight booms in this height category.

With a working height of 26.4 m (86 ft) and horizontal reach of 16.8 m (55 ft), this new boom provides operators with access where it's needed — at the top of the envelope.

For increased jobsite productivity, the new Genie S-80 J boom is lightweight enough (10,433 kg /23,000 lb) to be equipped with the exclusive Genie 4-point TraX™ patented track and axle system — the first and only boom model in the 24.4 m category to offer a tracked option.

The Genie TraX system provides exceptional terrainability and lower contact pressure for reduced damage when operating on sensitive ground surfaces, such as wet grass, mud, sand and snow, as well as on harder, uneven gravel, rock, concrete or asphalt-based surfaces.



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DELIVERING THE QUALITY YOU NEED
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MATCH THE RIGHT EQUIPMENT TO THE JOB**

in profile



ROBUST AND DURABLE DUMPERS FROM **TEREX** **TRUCKS**



Like the company's products, Terex Trucks as a business has proved to be robust and durable despite the challenges of the Covid-19 lockdown.

The company temporarily suspended production at the end of March at its facility in Motherwell, Scotland, in line with its parent company the Volvo Group, during which time it operated with a small team of dedicated employees who worked to support customers and maintain vital spare parts distribution.

Production is back up and running, with many of the team returning to work as the company approaches the future with what it calls 'cautious optimism'.

Due to the essential nature of construction work, Terex Trucks customers throughout the UK and Ireland are active in businesses that are vital to society and the construction industry will be key to global economic recovery.

The UK is the biggest market for articulated trucks in Europe followed by France and Germany, with OEMs gearing up for the major infrastructure project High Speed 2 (HS2) which could see demand for articulated dump trucks rise by an additional 1,000 machines over the next few years.

Articulated haulers such as Terex Trucks TA300 and TA400 will be used for preparatory tasks and transporting materials before the main construction work can begin; this includes jobs like vegetation clearance and earthwork for tunnel portals and compound facilities. So, let's take a look at those two models in more detail.

Terex Trucks' TA400

The TA400 – the biggest articulated hauler manufactured by Terex Trucks – is designed to meet the demands of the most extreme operations. This robust machine excels at delivering cost-effective production at large-scale construction projects, quarries and mines.



With a maximum payload of 38 tonnes (41.9 tons), the TA400 is the biggest one it manufactures. From the interior of the cab to the design of the chassis, this durable machine has been created to perform in some of the most challenging applications.

The TA400 boasts a heaped capacity of 23.0 m³ (30.3 yd³) and is powered by a fuel efficient Scania DC13 engine that develops gross power of 331 kW (444 hp) and a maximum torque of 2,255 Nm (1,663 lbf ft). The TA400's fuel efficient engine range is globally emissions compliant and meets the requirements of EU and North American legislation without the need for a diesel particulate filter (DPF). This is achieved via the latest generation selective catalytic reduction (SCR) technology, combined with exhaust gas regeneration (EGR) and a variable geometry turbo (VGT).

Terex Trucks' skilled engineers have ensured that the TA400's drivetrain is perfectly matched to the engine, thanks to automatic adaptive shifting capabilities and a pre-selected two-speed transfer box, along with longitudinal and limited slip transverse differential locks. All of this helps the articulated hauler to deliver improvements in performance and productivity, whatever the application.

CONTINUES ON NEXT PAGE →



CONTINUED

Other key performance features of the TA400 include great traction and an effective power-to-weight ratio, which ensures material is moved as quickly as possible in all conditions. With this functionality, customers can achieve maximum productivity at a minimal cost. Reducing operational costs even further, as well as enhancing safety, are the force-cooled multi-disc brakes.

Supported by an electronically activated exhaust brake and a six-stage modulating transmission retarder, the TA400 benefits from longer brake component lifecycles. The Allison HD4560 transmission boasts high performance oil and up to 6,000 hours between service intervals. In addition to all of this, the machine has magnetic suction filters, which reduce the risk of contaminants entering the hydraulic system. This helps to maximize uptime through cleaner hydraulic oil, longer periods between maintenance and prolonged hydraulic component lifecycles.

The machine has a spacious, ergonomically designed cab with pressurized properties, which ensures operators are comfortable when behind the wheel. Acoustic insulation helps to minimise noise levels inside the cab while a high performance and easily adjusted heating, ventilation, and air conditioning system ensures a stable temperature. Other features that help to deliver a comfortable work environment include a tilt/telescopic steering wheel, an adaptive air suspension operator's seat with adjustable armrests, anti-vibration mounts for the engine and cab, and cushioned stops on the steering cylinders.

Terex Trucks' TA300

Simple to operate and easy to maintain, the TA300, meanwhile, is a proven performer

that delivers low total cost of ownership and high productivity. The articulated dump truck now incorporates a new transmission that leads to a 5% improvement in fuel efficiency.

The TA300 articulated hauler from Terex Trucks is a popular choice on quarries, construction sites and infrastructure developments.

The 28 tonne (30.9 ton) workhorse offers a heaped capacity of 17.5 m³ (22.9 yd³) and is powered by a Scania DC9 engine, which develops gross power of 276 kW (370 hp) and a maximum torque of 1880 Nm (1387 lbf ft).



The TA300's fuel efficient engine range is globally emissions compliant and meets the requirements of EU and North American legislation without the need for a diesel particulate filter (DPF). This is achieved via the latest generation selective catalytic reduction (SCR) technology, combined with exhaust gas regeneration (EGR) and a variable geometry turbo (VGT).

The TA300 now features the latest EP320 transmission delivering a 5% improvement in fuel efficiency, a 5 km/h (3.1 mph) increase in speed to 55 km/h (34 mph),

an extended maintenance period and enhanced performance when compared with the previous model. All of this means that customers can be more productive, achieving faster cycle times, lower cost per tonne and reduced carbon emissions.

The TA300's new transmission comes with eight forward gears as well as four reverse gears, higher overall gear ratio spread, equal ratio steps between gears, and optimized gear shifting with partial load shifts. These features mean that the upgraded TA300 offers lower fuel consumption with smoother gear shifting and thereby higher levels of operator comfort. The TA300 also now comes with long life transmission fluid, increasing the length of time between oil maintenance intervals from 1,000 to 4,000 hours.

Helping to ensure high levels of operator comfort and productivity, the TA300 has a spacious, ergonomically designed cab with pressurized properties, which ensures operators are comfortable when behind the wheel. Acoustic insulation helps to minimize noise levels inside the cab while a high performance and easily adjusted heating, ventilation, and air conditioning (HVAC) system ensures a stable temperature.

Other features that help to deliver a comfortable work environment include a tilt/telescopic steering wheel, an adaptive air suspension operator's seat with adjustable armrests, anti-vibration mounts for the engine and cab, and cushioned stops on the steering cylinders.

For safe, easy servicing, the TA300, like the TA400, has ground level test points, a fully tilting cab, an electronically raised hood and a full suite of on-dash diagnostic and machine health check readouts which help to maximise uptime.



Irish Water sludge management project wins at UK Water Industry Awards

Irish Water's Kilkenny Sludge Project has been recognised at the prestigious Water Industry Awards, which recognises excellence in the water industry across the UK and Ireland.

The Kilkenny Project was awarded Asset Optimisation Initiative of the Year at a recent digital award ceremony. A further Irish Water project, the Decking, Grating and Plate-Covering Initiative, was also shortlisted in the Health and Safety category.

The Kilkenny Sludge Project involved taking a combined approach to sludge management across the Troyswood Water Treatment Plant and the Purcellsinch Wastewater Treatment Plant. The project has resulted in financial savings of over €140,000 per annum, as well as significantly reducing energy consumption, chemical use and the amount of sludge going to landfill. The project was a result of collaboration between Irish Water's Process Optimisation and Regional Operations teams and Kilkenny County Council.

The sludge from the Water Treatment Plant, which heretofore had been dewatered and transported to landfill, was instead thickened and tankered to the wastewater treatment plant, where it was blended with the influent.

The very significant costs, which had previously been incurred for sludge



Off-Loading Point of Liquid PACL Sludge at the Purcellsinch Wastewater Treatment Works.

dewatering and landfill from the water treatment plant were eliminated. It has been proven through the project that water sludge has a beneficial use in the reduction of phosphorus when it is added to wastewater and results, in turn, in the reduction of the use of chemicals for this purpose giving a financial and environmentally sustainable benefit.

The 'Decking, Grating and Plate-Covering initiative is designed to identify defects with

decking, grating and plate coverings and ensure it is safe and fit purpose across Irish Water assets. The initiative included the development of a guidance document and the establishment of a robust inspection regime which identified defects in a structured manner and put in place measures to ensure the asset class was safe and fit for purpose. This has ensured the safety of Irish Water personnel as they access and egress assets.

John Keane, Operational Planning and Emergency Manager with Irish Water, says: "Irish Water is delighted to have received recognition for its work in the areas of Process Optimisation and Health & Safety at the recent UK Water Industry Awards. To come away with a win, receiving the award for the Asset Optimisation Initiative of the Year is amazing. This award is a worthy reward for all the hard work and innovation our Teams are putting in on a daily basis to deliver business efficiencies."

The Water Industry Awards recognise excellence in innovation, best practice and customer service across UK and Irish water companies and their supply chain. While the awards are in their fourteenth year, Irish Water is the first winner of the Asset Optimisation Initiative of the Year category.

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DOOSAN LAUNCH STAGE V COMPLIANT ARTICULATED DUMP TRUCKS

Doosan Construction Equipment has launched the new DA30-7 and DA45-7 Stage V compliant articulated dump trucks (ADTs). The new DA30-7 and DA45-7 replace the previous DA30-5 and DA40-5 Stage IV models, respectively. The DA30-7 has a payload of 28 tonne, while that of the DA45-7 is 41 tonne.

The DA30-7 is powered by the new Scania Stage V compliant DC09 9 litre diesel engine providing 276 kW (375 HP) of power. The DA45-7 is driven by the new Scania Stage V DC13 13 litre diesel engine with an output of 368 kW (500 HP).

In 2018, the DA30-5 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 DA30-7 Stage V model.

A similar process has been applied in the new DA45-7 Stage V machine, with a new cab and a semi-levelling front suspension that adjusts itself independently depending on the operating conditions to ensure a comfortable working environment for the operator. The cabs on the ADTs have new comfortable hand grips and foot rests and an improved layout for the display which is easier to use even for tired eyes.

As well as these changes, the new Stage V models offer 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 given to the

Stage V ADTs reflects the high performance, power and robustness of the Doosan ADT range and aligns even more closely with the 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 ADTs 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 new ADTs are equipped as standard with a real-time payload measuring system with a light indication for excavator operators, which will help them to place optimal loads in the ADTs to ensure excellent productivity and low fuel consumption.

HYDREMA DELIVER TWO MACHINES TO AUSTRALIA'S ANTARCTIC PROGRAMME

Two Hydrema 922Gs have joined the (AAD) Australian Antarctic Division's fleet to become a part of Australia's Antarctic Programme.

When Australia's new Antarctic icebreaking research and supply vessel - the RSV Nuyina, sets its course toward Antarctica in 2021, two Hydrema 922G MultiChassis will be on board and prepared to lift a heavy workload on the icy continent.

The articulated 922G MultiChassis versions have a hydraulic hook-lift system that allows them to self-load and unload containers. They weigh in at only 14 tonnes, which is one of the main reasons the AAD chose Hydrema trucks over other similar trucks. The



reason behind this is that the ADD operates with a load limit of 34 tonnes when transporting cargo on the sea ice. The Hydrema trucks can, therefore, transport containers of up to 20 tonnes, which makes them very

efficient and the perfect match for the tasks in the Antarctic.

The 922Gs are full-off road trucks with the highest power to weight ratio on the market and with excellent driving capabilities at all speeds and on all surfaces, due to the oscillated and

hydraulic stabilised pivot joint. The combination of the rigid front axle with electronically controlled suspension and level control that aligns the machine in an optimal position, provide the operator with a high level of stability and comfort. Due to the design, all six wheels are in constant contact with the surface, which ensures low ground pressure as the weight is equally distributed.

But before shipping out to Antarctica in 2021-22 with the RSV Nuyina, the 922Gs will undergo a winterisation and be modified, so they are well equipped to handle the often extreme climate conditions in Antarctica, where temperatures quickly can drop to below minus 35 degrees Celsius.



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BELL B60E – MOVING MORE FOR LESS

When looking for a cost-effective and efficient haulage solution for the mining industry, Bell Equipment continues to push new boundaries and its sixty-tonne crossover concept, the B60E 4x4, has an impressive balance between off-road performance, productivity, and fuel economy.

Designed to provide a crossover to both rigid dump trucks (RDTs) and traditional ADTs, the B60E has a single rear axle instead of the more typical double axle whilst retaining the traditional ADT characteristics of all-wheel drive, and articulation steering with an oscillation joint.

According to Bell Equipment Product Manager ADTs, Nick Kyriacos, this gives the B60E far better capabilities in challenging conditions compared to RDTs.

"The oscillation joint keeps all the wheels in contact with the ground allowing for consistent all-wheel drive performance. If an RDT fleet owner is looking for more flexibility or is forced to stop production due to unfavourable conditions, then the B60E is a great solution for them. The truck has operated side-by-side with rigid dump trucks on several sites where it has proven

it capabilities. Additionally, customers running a mixed RDT and B60E fleet are able to standardise on one loading tool whilst retaining a high level of flexibility when deploying their equipment."

In comparison to traditional ADTs, Nick explains that there are customers who do not need the level of off-road ability that their 3-axle ADT counterparts provide. "In these cases, the B60E offers a level of productivity never seen before. There is negligible tyre scuffing on the 4X4 ADTs, which is a major wear point for the middle and rear axles of 3-axle trucks.

"Some of our leading customers have experienced the B60E achieving more than double the tyre life of their 6x6 counterparts in the same application. The B60E's tyre life also exceeded that of similar sized rigid dump trucks in the same application by 60 percent due to a combination of its all-wheel drive configuration, whilst the oscillation tube ensures that all wheels maintain even contact with the ground along the entire haul cycle," continues Nick. "We have sold a number of B60s to ADT customers in various parts of the world who are running them very successfully and enjoying the increased productivity and tyre life they offer."

Far larger than a conventional ADT bin, the B60E's flat-bottomed 35m³ body resembles a rigid-truck bin in its dimensions and geometry, which makes it fully compatible with existing loading equipment in mines and quarries and assures an ideal 2:1-heap of coarse blasted material. The shape additionally allows the loading tool to easily place bucket loads evenly within the bin for efficient loading, which is not possible in comparable ADTs in this size class.

The truck has proven its versatility on customer sites moving rock, ore, and sand over extended haul distances, easily managing short, steep gradients, tight turning circles and poor underfoot conditions during inclement weather.

"To date, the average fuel consumption of all B60Es ever sold is less than 24 litres per hour," says Nick. "Carrying a 55,000kg payload per cycle at that fuel economy, coupled with the extended tyre life, the B60E achieves the Bell design philosophy by continuing to deliver lowest cost per tonne solutions."

In addition to cost efficiencies related to economies of scale and a highly economical drivetrain, the B60E is loaded with safety features incorporated into the truck as standard including Hill Assist, Safe Tip, downhill braking control and automatic traction control. Other standard features include auto-greasing systems, rear-view camera, onboard diagnostics, and Bell Fleetm@tic@telematics with full production data reporting.



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in profile

BENAGH ENGINEERING DELIVERING INNOVATIVE WASTE MANAGEMENT SOLUTIONS

As the sole distributor here in Ireland of the German made Husmann brand of waste equipment, Benagh Engineering have been enjoying a number of successes in recent months despite the challenges thrown up by the Covid-19 pandemic and subsequent lockdown.

The County Down based company's growing customer base includes a diverse range of businesses and sectors – from Council Recycling Centres, Distribution Centres, manufacturing and waste collection companies to hotels, retail outlets and shopping centres.

With a team of highly trained mobile service engineers and fully equipped workshops at their Mayobridge headquarters, customers throughout the island of Ireland can have every confidence that their needs will be well looked after.

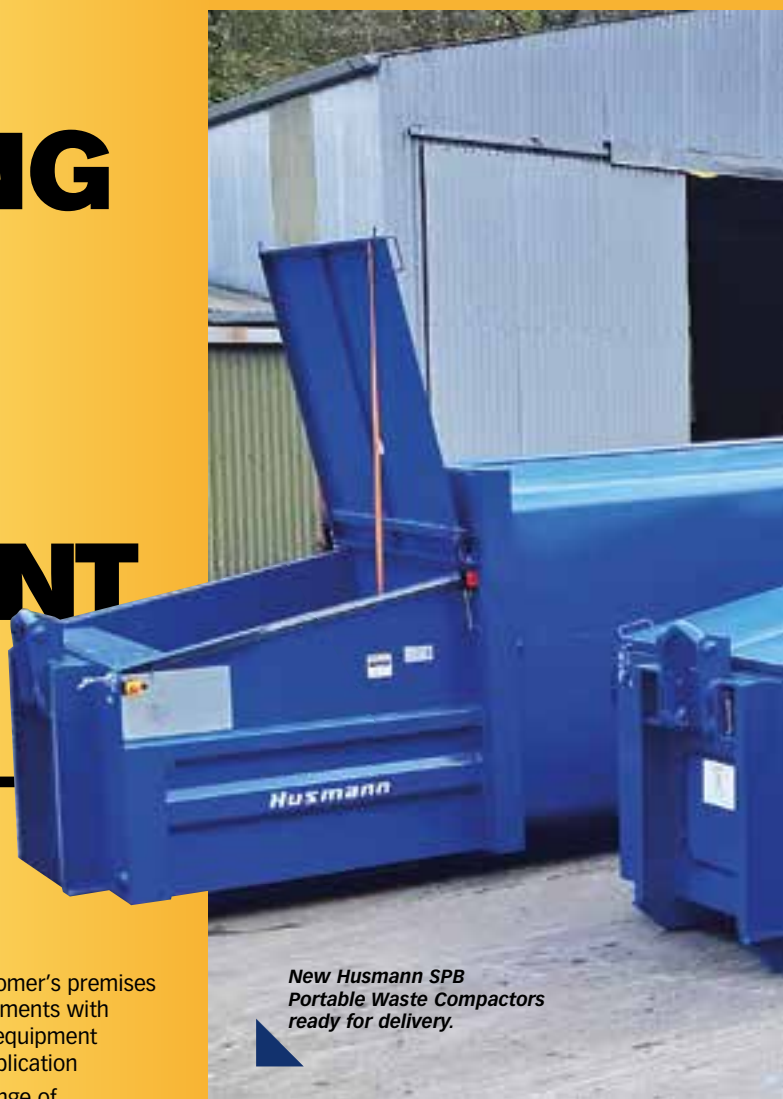
Right from the outset, they benefit from Benagh Engineering's sales and support package which includes:

- Initial Site Visit, at customer's premises to discuss their requirements with regards to the type of equipment that best suits their application
- The ability to offer a range of equipment to suit individual customers requirements and budget be it new or used equipment
- The capacity to provide the equipment within a fixed time scale
- Equipment can be delivered, installed and staff training provided
- All works guaranteed, and equipment covered by a full parts and service warranty

As well as stocking a large inventory of spare parts and replacements for most makes and models of waste compactors and balers, Benagh Engineering also carry out maintenance and repairs for customers in addition to manufacturing bespoke waste disposal and recycling machinery – and it stocks a wide range of used and refurbished waste disposal and recycling equipment; all its used refurbished equipment is supplied with a full six month parts and labour warranty.

Portable Compactors

The company recently supplied three Husmann Portable Waste Compactors to Ards and North Down



New Husmann SPB Portable Waste Compactors ready for delivery.

Borough Council. The Husmann SPB Portable Waste Compactors can be used for a variety of waste streams, having a compaction force of 34 tonnes with a conical container shape for easy emptying.

The fully welded container and robust discharge door seal are part of the Husmann leak proof design that ensures clean and efficient waste compaction and storage.

Roll-Packing Machines

The same council also took delivery of Husmann GT-M 1750 Mobile Roll-Packer for use at its Balloo Recycle Centre in Bangor.

A Husmann GT 1750 Static Roll-Packer has also been installed at Huhtamaki's packaging factory at Blackstaff in Belfast.

Both the mobile and static Roll-Packers are ideal for compacting large amounts of bulky waste into standard open top containers. The mobile unit is also fitted with a shunting device that enables it to manoeuvre full and empty containers into and out of loading bays.

The machines can compact all types of bulky waste such as pallets, wooden boxes, old furniture, green waste, mixed plastics, and light metals.



Huhtamaki have taken delivery of this new Husmann Static Roll-Packer supplied by Benagh Engineering at their packaging factory at Blackstaff, Belfast.

THE COUNTY DOWN BASED COMPANY'S GROWING CUSTOMER BASE INCLUDES A DIVERSE RANGE OF BUSINESSES AND SECTORS – FROM COUNCIL RECYCLING CENTRES, DISTRIBUTION CENTRES, MANUFACTURING AND WASTE COLLECTION COMPANIES TO HOTELS, RETAIL OUTLETS AND SHOPPING CENTRES.



Big Savings

The Roll-Packing machines can provide huge savings on transport costs by compacting these materials and eliminating up to 4 out of 5 disposal trips; the machines are user friendly can be easily incorporated into your existing yard layout.

Other benefits of the Husmann Static and Mobile Roll-Packer units include:

- Extra capacity during busy periods
- Reduced site traffic and site disruption
- Lowering of carbon emissions due to reduced transport
- Reduced wear and tear on containers due to fewer uplifts

Other products supplied by Benagh Engineering from the Husmann range include:

- Static and Portable Waste Compactors
- Transfer Stations
- Balers
- Shredders
- Barrell Presses

Customer Support

Comments Benagh Engineering's Eamon Dornan: "Despite the difficulties posed by the Covid-19 pandemic, as a business we have been very active over the last few months. Our service teams in particular have been busy supporting our customers. We've always just been a phone call away."



Pictured here is Ards and North Down's Area Manager Andrew Phillips with Benagh Engineering's Engineer Eamon Dornan at the handover of the Husmann GT-M 1750 Mobile Roll-Packer.



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



Gordon Best, MPANI

VERY CHALLENGING TIMES AHEAD

The most recent Ulster Bank PMI in August showed that Business activity in Northern Ireland had increased for the second month in a row but the rate of expansion was lower given a reduction in new orders.

Construction in particular saw activity drop back from the strong rebound witnessed in July. NI companies in all sectors remained pessimistic for the 12 months ahead mainly due to concerns over the continuing COVID 19 emergency and Brexit.

Certainly the increasing R number in Northern Ireland and the fallout from the passing of the UK Internal Market Bill indicate very challenging times ahead.

I attended a meeting recently with the Department of Finance Permanent Secretary, Sue Gray, during which we discussed the Northern Ireland Construction Group (NICG) paper on Construction Industry Recovery. NICG colleagues stressed strongly the need for quick decisive decision making to get work out into the economy that will create the widest possible economic ripple effect.

Urgent investment and schemes for housebuilding, roads water and sewerage infrastructure maintenance and renewable energy projects were identified as key target areas. We highlighted the fact that the current high construction activity was temporary and painted a false economy and that to avert significant redundancies across the construction sector the Executive urgently needs to stimulate confidence and deliver clarity about capital investment in construction in the short to medium term.

Interconnector

The announcement by Infrastructure Minister, Nichola Mallon, that she had given planning permission for the North South Interconnector is good news for everyone. The Interconnector is a crucial piece of economic infrastructure which will support prosperity and employment across the island of Ireland. It will ensure the effective operation of an efficient all island electricity market and support the

provision of a secure, sustainable, and cost-efficient electricity supply across Ireland.

I recently submitted a response to and consulted directly with the Infrastructure Ministers advisory panel investigating the rational and benefits of an Infrastructure Commission for Northern Ireland. I highlighted the MPANI support for an Infrastructure Commission mainly because:

- Infrastructure planning is too short-term.
- Its process led rather than intelligence led.
- Not enough priority and investment is given to maintaining the existing infrastructure assets we have.
- Maintenance of our Infrastructure is delivered through one-year budgets, which is not conducive to delivering effective planning, quality and value for money.
- Infrastructure planning in NI is segmented and viewed on a Departmental basis. In 2016 the Organisation for Economic Co-operation and Development (OECD) highlighted the need to clarify roles and responsibilities of key stakeholders and, as a result, eliminate duplication in administrative functions and institutional frameworks.
- Too many projects suffer time delays and /or cost overruns when compared against original timescales and budgets mainly because of funding constraints, legal challenges, planning issues, quality of construction, and lack of interest from Industry.
- Political uncertainty has held back significant levels of private sector investment in infrastructure.

MPANI believe there is an urgent need to consider how alternative models, resourced with sufficient, highly skilled staff might improve future infrastructure delivery, given the importance of major capital infrastructure. MPANI have stated in previous consultations and submissions to NI Assembly Committees that the NI Executive should move towards models in Scotland

and the Republic of Ireland by creating a new centralised procurement and delivery agency to develop and deliver infrastructure.

The Northern Ireland Audit Office (NIAO) in its Major Capital Projects Report in 2019 said this new body should taking responsibility for education and health capital building projects and seek to drive efficiencies in delivery costs.

We, and other NICG colleagues, firmly believe that any newly appointed Infrastructure Commission must lie under the responsibility of the NI Executive as Infrastructure is cross departmental covering roads, water, energy, digital communications, waste, housing health and education.

The Advisory Panel took evidence and submissions from a wide range of stakeholders and given their tight timescale they are due to report back to the Infrastructure Minister by the 29th September. We await their recommendations and the Ministers advice to the NI Executive.

Health & Safety

On the Health and Safety front MPANI are continuing to advise and inform Members about the dangers of complacency and the need to continually remind everyone of social distancing, washing hands and good practice in all areas of activity.

At the recent All Party Group on Construction the HSENI Chief Executive, Robert Kidd, paid tribute to the Construction Industry and the Mineral Products Industry for the way both sectors have dealt with the COVID 19 emergency.

The publication in August of the public register of all sites and businesses registered for aggregates levy has been widely supported and welcomed across the industry both here in NI and across the UK. We have produced an NI specific list and circulated it around the industry here. A number of operating quarries and businesses are not registered and MPANI have reported our concerns to HMRC in the usual way.

When the Treasury published the Register and the next steps in the review of the aggregates levy they made known their intention to consult on other aspects of the levy including the tax treatment of imported concrete and bituminous products and the supply of aggregates from borrow pits. MPANI have asked that a review / consultation is carried out into the environmental cost of quarrying as in our view the original study and subsequent data carried out and produced by London Economics was deeply flawed.

MPANI have met with the Department of Finance re ensuring that procedures are in place to check that all aggregates being supplied to public sector sites come from sites and businesses registered on the list. CPD informed us that there is a current review of all Procurement Guidance Notes (PGNs) and a requirement for clients and their project managers to ensure aggregates levy compliance will be included. The Register containing all NI sites has also been circulated to the Land and Property Services and to the Department of Infrastructure to ensure a further tightening of the level playing field.

Planning Forum

On the Planning front there is a lot of activity with the Department of Infrastructure setting up a Planning Forum, the Northern Ireland Audit Office planning a report into the effectiveness of the NI Planning System and the CBI report into the delivery of major planning applications in Northern Ireland.

In this review, CBI Northern Ireland worked with the Jim MacKinnon CBE to carry out a comparative analysis of Major Planning Applications: examining the processes and timescales for the determination of major applications across the UK and Ireland; and to identify the issues to be considered for securing improvements to the process in Northern Ireland.

CBI is conscious that this report is being published at a time when the Department of Infrastructure has signalled its intention to commence the statutory review as required under the Northern Ireland Planning Act 2011. With that in mind, CBI has proposed a series of recommendations, some of which can be enacted now by the Infrastructure Minister in the immediate response to COVID-19.

I would strongly recommend that you read the latest Planning update from MPANI Affiliate Member Turleys. The update looks at

the COVID 19 impact and how Councils are responding and delivering this vital service to keep the economy going. You can view the report at <https://www.turley.co.uk/comment/covid-19-northern-ireland-planning-update-2>

Working Group

As MPANI Regional Director I am sitting on a CIFNI working group consulting with DfP Building Regulations Group on changes to the NI Building Regulations 2012. Since the Grenfell fire there has been much debate about compliance with the Building Regulations requirement for external walls on buildings to adequately resist the spread of fire.

The objective of this policy change is to provide certainty about materials to be used in external wall systems of certain buildings ('relevant buildings').

The consultation proposes an amendment to Part B (Materials and workmanship) legislation and accompanying guidance and a consequential amendment to Part A (Interpretation and general) legislation to introduce a new requirement to ban the use of combustible materials on the external walls of 'relevant buildings', mainly of a residential type.

It is proposed that the ban will apply to:

- buildings with a floor 18 metres high above ground level which contain a dwelling, contain an institution or contain a room for residential purposes. This will mean flats, student accommodation, care homes, nursing homes, sheltered housing, hospitals and dormitories in boarding schools, all with a floor over 18m above ground level will be covered by the ban.
- newly erected buildings or when there is a material change of use, alterations or extensions (as defined in building regulations) to an existing building. All elements of the external wall will be covered by the ban; including specified attachments (balconies, solar panels and sun shading devices). A list of exemptions from the ban for certain components will also be given.

Within the Consultation views are sought from respondents on whether the limit of 18 metres should be reduced to 11 metres. MPANI will be responding to the Consultation and agreeing with the recommended changes to ban the use of combustible materials in buildings.

Diesel Rebate

The Chancellor announced in his March Budget that the red diesel rebate for all off road vehicles would be removed from most sectors of the economy that currently have the right to use it from April 2022, which includes mineral products.

There is a consultation now out, closing date 9th October, which MPA and MPANI will be responding to strongly and in detail. We have also had a number of calls with the Treasury team and will continue to engage them to make our case.

Members can support the MPANI response to the proposed removal of the rebate in two ways. Firstly, we have surveyed members to get a thorough understanding of what equipment they use and the potential for alternative fuels, and information submitted to date has been very helpful. Secondly, we will be seeking to influence local MPs as the Chancellor decides how to proceed.

As a local business and employer, Members are in a great position to influence their local MP, so we would encourage everyone to write to their MP, and especially letting us know if they respond. A template letter will be provided to Members shortly.

The points the Minerals and Aggregates Sector is and will continue to make is that we are an essential industry, rurally based, with an excellent environmental record, already at the forefront of new technology and committed to zero carbon and energy transition.

Our Asks in order of priority

1. Minerals sector exempted in a similar way to Agriculture / Forestry
2. Removal of Rebate delayed until 2030 to allow for fuel technology to develop that it can offer solutions to power the heavy plant we use.
3. A staged withdrawal of the rebate over the next 10 years.

Join Us

Can I finish by thanking everyone for their continued support and encourage any of you reading this who are not Members of MPANI and not supporting the very important we do to protect our Industries license to operate to please consider coming on board and be part of the MPANI team working for solutions to the many current and future challenges ahead.



Northern Ireland
life needs minerals

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50th anniversary

PAT O'DONNELL & CO **STILL GOING STRONG** **FIFTY YEARS ON**

Earlier this year Pat O'Donnell & Co quietly passed a huge landmark in its long and successful history: its 50th anniversary. Plant & Civil Engineer's David Stokes recently caught up with the founder of the company to find out more.

The Covid-19 pandemic lockdown across the island of Ireland was well underway on May 1st 2020, but the team at Pat O'Donnell & Co made sure they were there to serve customers operating in vital essential services sectors.

Caution married with entrepreneurship has guided the company through many other ups and downs, none greater than the economic collapse in 2008 and today as a new normal takes hold, it is once again stepping up to the mark to keep its long standing and loyal customer base on both sides of the Irish border serviced and supplied with all the necessary equipment they need to carry on as the economy slowly begins to pick up once more.

It all began in 1970 on a small site on Richmond Avenue in Fairview Dublin 3, with just three employees, with the company,



headed up by Managing Director Pat O'Donnell, immediately embarking on a strategy to serve the whole of the island.

Still firmly at the helm today, Pat's early successes included taking on the sole agency for the Volvo range of wheel loaders and dump trucks which remains solidly fixed at the core of the business. Over the years, the Volvo Construction Equipment portfolio has grown substantially to include more than 150 different models of articulated haulers, wheel loaders, excavators, mini-excavators, demolition equipment, pipelayers, pavers, compactors and specialty paving equipment.

In addition to a Head Office at Chapelizod in

Dublin which opened in 2005, the company has operational centres in Portadown, opened in 1970, Galway, opened in 1980, and Cork, which opened in the mid-1970s.

Fully Focused

So, when Pat first set out on this journey, did he expect to enjoy such growth over the past 50 years? He tells us: "I certainly didn't. No one knows what will happen when they first set up in business; if they start dreaming about success they are already on the wrong road! It's a question of putting your head down and driving forward fully focused on what you want to accomplish."

He adds: "At the outset we wanted to create a presence in all four Provinces – Ulster, Leinster, Connacht and Munster – and we have achieved that, having carried out due diligence to establish what the potential was."

STILL FIRMLY AT THE HELM TODAY, PAT'S EARLY SUCCESSES INCLUDED TAKING ON THE SOLE AGENCY FOR THE VOLVO RANGE OF WHEEL LOADERS AND DUMP TRUCKS WHICH REMAINS SOLIDLY FIXED AT THE CORE OF THE BUSINESS.

New Head Office, Chapelizod, Dublin, opened in 2005



A Volvo 4500 working with a 5350 Volvo dumptruck underground in Kingscourt in 1984.

"For example, we found there was a potential for large uses of wheeled loaders in the north and south of Ireland, but end users were not happy with the service they were getting from the products that they had, so we found that encouraging as it gave us something to aim for and achieve."

The Volvo Construction range of equipment was the only product offering for the first five years of business, but more agencies followed to cover the whole spectrum of construction, re-handling, building and civil engineering.

Premises at Richmond Avenue, Fairview, Dublin



They include Sennebogen material handlers, port handlers and grabs and attachments. It is the company's second largest product range and like Volvo it has also proven extremely success. Indeed, just recently the company delivered a 175 tonne Sennebogen 875E to Fast Terminals Ltd in Drogheda; with a 26 metre reach, it is the largest one they have sold to date.

Among other agencies include Avant loaders and attachments, Rammer hydraulic hammers and chisels, and, of course, Volvo Penta which provides engines, gensets, propulsion and EVC solutions for the marine and leisure sectors.



A consignment of new Volvo Loaders at Galway branch in 1984 prior to delivery to customer ESB

Key Strengths

It is clear that Pat O'Donnell & Co has had two key strengths in its history, firstly its suppliers and their unparalleled products and, secondly and most

CONTINUES ON NEXT PAGE



Pat O'Donnell & Co's display at the 1981 Spring Show in the RDS.

50th anniversary

The original Cork branch at Carrigrohane Road in the 1970's.



importantly, the individuals who have worked with the company since day one.

"We have a well-trained, very loyal, dedicated and knowledgeable team of employees without whom we could never have reached the levels of business we have today," says Pat. The company's workforce numbers around 100 at present. Another contributing factor to success has been the fact that the company has never been overburdened by high overheads and large expensive borrowings. "We have always tried to be efficient in these areas, without compromising on the service we provide to our customers."

Market share for the company's products has always been healthy in both the north and south of the island, and in recent years there has been some significant growth in Northern Ireland, especially for medium to larger machines.

That is down not only to the high quality of the product, but to the equally high level of customer service.

"Our guiding principle has always been since day one to meet and exceed the needs of our customer base. Having their confidence in our ability to supply and support is key; if you don't have that, you have nothing. Thankfully, our customers are very committed and loyal to the company right across the full range of agencies we operate today."

To the Future

So, what does the future hold for Pat O'Donnell & Co? "It is difficult to plan for the future amid the present challenging climate caused by Covid-19, but the company has been built on very solid foundations, we offer great product ranges which are regularly being updated and expanded, and we remain well positioned to change and adapt to new ideas, new trends and technologies going forward."

"WE HAVE A WELL-TRAINED, VERY LOYAL, DEDICATED AND KNOWLEDGEABLE TEAM OF EMPLOYEES WITHOUT WHOM WE COULD NEVER HAVE REACHED THE LEVELS OF BUSINESS WE HAVE TODAY," SAYS PAT



L-R: Pat O'Donnell receiving a special presentation from Gösta Göransson and Bengt Ovlinger of Volvo Construction Equipment to mark the 25th Anniversary of Pat O'Donnell & Co.



Portadown Branch on Moy Road in 1985.

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NEXT GENERATION TIPPERS LAUNCHED INTO THE UK AND IRELAND MARKET

Despite the current challenges in the construction and quarrying sectors across the island of Ireland, the tipper market has been holding up well, with a number of new and significant product launches this year.

MAN Truck & Bus has brought an entirely new range of trucks on to the market. It includes the TGX at 44 tonnes and the TGS 8x4 which is specifically targeted on the heavy-duty construction industry and municipal services sectors.

Not to be outdone, the introduction of four new heavy trucks by Volvo, the company's biggest ever product launch, features a full line-up of new tipper models including the totally updated FMX and FM models, both of which have a strong heritage in the construction, plant and quarrying sectors.

DAF, meanwhile, is promoting its latest XF480 FAW 8x4 tipper; which we recently put through its paces.

In this special focus on the tipper market, we take a closer look at the aforementioned models to find out more about their performance and handling, and the impact they will have on the construction and quarrying sectors going forward.

DAF CF AND LF PURE EXCELLENCE

A photograph showing three DAF tipper trucks parked on a dirt road at a quarry or construction site. The truck on the left is a white DAF CF model with a tipping mechanism. The middle truck is a white DAF LF model with a flatbed. The truck on the right is a white DAF XF480 FAW 8x4 model with a tipping mechanism. In the background, there are large piles of sand and gravel, and some green trees under a blue sky.

Ready to Go

A PACCAR COMPANY DRIVEN BY QUALITY

tipper



**THE TIPPER MARKET HAS
BEEN HOLDING UP WELL,
WITH A NUMBER OF NEW
AND SIGNIFICANT PRODUCT
LAUNCHES THIS YEAR**



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HUMAN



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SHINING A LIGHT ON THE ROBUST MAN TGS 8X4

In February 2020 MAN Truck & Bus launched an entirely new range of Trucks, a range that encompasses the manufacturer's entire portfolio, from the lightweight TGL at 7.5 tonnes through to the TGX at 44 tonnes and in time will include the 250 tonne Heavy Haulage and abnormal load, prime movers.

A lot has been said of the New Generation and much praise has been heaped at the manufacturer's door from the early adopters. We've driven the TGX at 40 tonnes, at the launch in Bilbao, and we can agree with the many positive comments, after all if you speak with over 700 drivers and 300 international operators during the design phase, listen to their thoughts and implement the best ideas into the new vehicle, you're getting close to building the perfect truck.

Twenty years in the making the newly developed truck range focuses on the changing requirements of the road transport industry and sets new standards for, among other things, assistance systems, driver fit and digital net-working. Indeed MAN Truck & Bus are rapidly becoming known as a truck manufacturer who supplies its customers with intelligent and sustainable transport solutions. The new generation, offering operators fuel savings of eight percent and significant reductions in CO₂, bears this out.



Chassis of Choice

For the purpose of Plant & Civil Engineer we'll shine a light on the new MAN TGS and hone in on the 8x4, which as we know is the chassis configuration of choice for the muckaway, aggregate and the bulk goods sectors.

The New TGS is available with a choice of two latest generation, Euro 6D compliant engines, the D15 at 330, 360 and 400 hp

and the larger volume D26, delivering 430, 470 and 510 hp respectively. Both are 6 cylinder straight six units.

The D15, launched in 2019, is a small cubic capacity 9-litre 6-cylinder lump which packs a punch and offers operators a robust, efficient, economical and lightweight, and now tried and tested solution. Compared to its predecessor (the D20) the new D15 is 230 kilograms lighter, so an ideal choice for those wanting to maximize their payload opportunities.

Achieving the latest Euro6D emissions the D15 engine, delivering between 1,600 and 1,800 Nm respectively, relies solely on a SCR exhaust gas after-treatment. This technology helps simplify servicing, saves weight and at the same time frees up valuable chassis space.

For those wanting a more powerful, yet still lightweight option, the new TGS with the D26 caters for your every need. Making numerous minor improvements MAN had managed to shed around 70 kilograms of weight and significantly reduce fuel consumption to the tune of 8 percent. The 12.4 litre, six-cylinder model is available in 430 hp, 470 hp and 510 hp outputs and the progressive torque curves show 2,200, 2,400 and 2,600 Nm is available from as low as 930 rpm.

Matched to new MAN TipMatic® automated gearboxes, offering effortless stepped gear-changes, both on and off-road, the new the vehicle automatically detects loads and angles of inclination and optimises the shift pattern to ensure that the best and most appropriate gear is always selected. The "OFFROAD" gearbox software has been specifically designed to help maximize efficiencies and tractability for operation in adverse conditions. The additional Dx position on a rotary switch permits altered shifting times as well as higher gearshift engine speeds, thus preventing gear skipping and resulting in minimum interruption of tractive force.



Targeted Sectors

The new MAN TGS 8x4 is targeted as before on the heavy-duty construction industry and municipal services sectors. The TGS model series is characterised by narrow cabs, these are newly designated as NN (narrow, medium length, standard height) FN (narrow, long, standard

height) and FM (narrow, long, medium height) all ideal for applications requiring both low un-laden weight and good visibility.

At the same time as the new truck generation, MAN is introducing a new consultation and offer system which is entirely oriented towards the needs of the customer. It follows a product logic which is oriented towards the customer's application profile. This allows customers

to tailor a new MAN TGX, TGS, TGM or TGL package to fit their exact transport task, using comprehensively adjustable and flexible configuration options. This includes individually coordinated services from maintenance, financing and digital services, making the truck a holistic, integrated transport solution – all this from a single source, with competent personal contact partners.

New vehicles aside MAN has and is investing heavily in their dealer network. With new state of the art facilities opening, existing sites being expanded and improved, and, major investments from within the franchised network, again with the opening of both new facilities and existing site improvements, MAN is on a march. Speaking with customer's they will tell you that service is key to running a successful operation and from what we've seen and heard MAN is on-track to win both the hearts and minds of operators, accounts and the driver fraternity.



PLANT & CIVIL **engineer**

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tipper

CONSTRUCTING A PATH INTO THE FUTURE WITH THE NEW VOLVO FMX

The coronavirus pandemic unsuccessfully tried to put a spanner in the works when Volvo Trucks set about launching its new robust Volvo FMX back in March, but the ensuing lockdown meant we couldn't get up close and personal with this new arrival into the construction sector - until now, that is. Plant & Civil Engineer's Garfield Harrison and Phil Eaglestone travelled across the border for a specially arranged two day Press event in County Meath, courtesy of Volvo Trucks.

Not only did we learn much more about the Volvo FMX 460's many new features, but we also got the opportunity to get behind the wheel to experience it in action.

The event began in the grounds of the Johnstown Estate, home to a 1750's Georgian Rural Residence set on 120 acres of parkland, overlooking the river Blackwater nestled between the villages of Johnstownbridge and Enfield.

The test drive took us along an 80km route to Athlone, before returning to the Estate a couple of hours later, allowing us to get a good impression of the FMX's highway performance, and what a performance; the wait was well worth it.

This latest generation Volvo FMX 460 8x4 tipper comes with an entirely new cab, increased payloads and innovative safety features. With increased front axle loads of up to 20 tonnes and a 38 tonne bogie, it is clearly built for the toughest conditions and most demanding tasks.

Speaking at its initial launch back in March, Roger Alm, President of Volvo Trucks commented: "Our construction industry customers are facing ever increasing demands to improve in areas such as sustainability, cost efficiency, safety and productivity. With the launch of the new Volvo FMX, we are proving our commitment to supporting these customers by creating robust trucks and innovative services to assist in making their operations easier, safer and more profitable."

FMX Facts

Day cab, Low day cab, Low sleeper cab, Sleeper cab, Globetrotter cab, Crew cab. Exterior and interior trim packages for individual design.

A new steering wheel with a neck tilt option for a more ergonomic driving position.

Diesel engines are available with different emission standards.

I-Shift and I-Shift with crawler gears, with software packages for different areas of application.

Halogen or LED headlamps.

And added Ismail Ovacik, Chief Designer Exterior for Volvo Trucks: "The new Volvo FMX is designed to give a superior combination of agility and durability. The completely new cab includes a front section with easily replaceable sturdy parts, headlamp protectors and new V-shaped LED headlamps. To make it easy for drivers to enter or exit, we've designed new anti-slip footsteps."

Increased Space

The working environment of this new Volvo FMX cannot be faulted, with increased space in the day cab and storage of up to 800 litres. Drivers also get improved visibility thanks to a lowered door line and new rear view mirrors. The visibility can be improved further by adding a camera on the passenger side which provides a complementary view of the side of the truck.

The interior is characterised by a new dashboard with more storage space, new colours and a modern cluster. It includes a dynamic 12-inch high-resolution instrument display with a





user-friendly interface allowing the driver to immediately see relevant information and select between four different screen views, depending on the driving situation. The instrument display comes ready for future updates and connected services.

A 9-inch side display provides infotainment, navigation support, transport information and camera monitoring. The display, that is easy to reach, allows the driver to interact in numerous ways: with the intuitively positioned buttons on the steering wheel, through voice control, or directly via the touchscreen and display control panel.

The new FMX also comes equipped with a new traction control panel that helps the driver easily and quickly handle potentially dangerous situations, both on and off the road. The driver can gain more traction by engaging the differential locks in an easy way, by turning a knob, viewing the traction status on the instrument display at the same time.

The new sleeper cab on the new Volvo FMX comes with improved storage possibilities, including a large storage compartment underneath the raised bed and an upper

rear storage with LED panels in the compartment dividers. Cab comfort is further enhanced through improved insulation that helps keep out cold, heat and noise. Moving from the seat to the bed is easier than ever with the new slimmer, ergonomically designed I-Shift gear selector.

Safety features

The new Volvo FMX comes with the option of Adaptive Cruise Control (ACC) that now works at all speeds down to zero km/h. Further safety enhancing features on the Volvo FMX include descent control, which sets a maximum speed to help prevent unwanted acceleration when travelling downhill.

The Electronically controlled Brake System (EBS), which is a prerequisite for safety features such as Collision Warning with Emergency Brake and Electronic Stability Control, is now standard on the new truck. Volvo Dynamic Steering, with the safety systems Lane Keeping Assist and Stability Assist, is also available as an option, while a new road sign recognition system increases safety by displaying traffic signs such as speed



and road type in the instrument display.

It is worth noting, too, that for particularly rough applications like mining, the Volvo FMX comes with an optional steel roof hatch with an emergency exit handle that removes the entire hatch.

Incidentally, Volvo Trucks plan to re-launch all four new models this Autumn, with sales scheduled to start in the first week of October.

EYE-CATCHING DAF XF480 FAW A STAR OF THE FOREST

The ancient Forest of Dean in Gloucestershire has changed many times over the centuries. In medieval times it was a royal hunting forest, before becoming a source of timber for the navy's Tudor warships. By Victorian times it was a major site of industry, with coal mining and tramways punctuating the landscape.

Today, it attracts some of the world's major stars; the most famous movie to be filmed in the Forest of Dean is "Star Wars VII: The Force Awakens," and some parts of the Harry Potter movie series are also filmed here. But if you went down to the forest more recently you'd have seen a totally different star - DAF's latest XF480 FAW 8x4 rigid - which is where Plant & Civil Engineer's Phil Eaglestone became more acquainted with the tipper, with many thanks to DAF trainer Mandy Wannerton.

There's little doubt this new DAF XF has built on the excellent standards of driver comfort for which DAF's top-of-the-range truck is renowned worldwide. It offers the biggest interior space available on the market, the best and largest bunks and a completely new, attractive look and feel.

The new 8x4 FAW chassis has a GVW of 32 tonnes and, thanks to the steered trailing axle, can be manoeuvred with great precision, while a turning circle kerb to kerb of 15.4m makes it ideally suited for transporting large or heavy loads to sites where there is relatively little space.



With increased ground clearance that helps avoid rough terrain obstacles such as rocks and stones, the chassis lends itself perfectly to operation as a tipper, as well as to other applications including concrete mixer, for bodywork with a rear mounted crane or for a combination of a loading crane with a hook lift system.

Some operators will clearly appreciate the extra space, storage and comfort offered by the XF cab, and with many specialist operations being double manned

or have a lot of kit that needs to be stored in the cab, this makes the XF an ideal workplace.

And, of course, drivers will certainly choose the XF when looking for the ultimate sleeping and living space, as we did, having overnights in the cab ourselves!

The steep inclines and winding roads through the Forest of Dean gave us ample opportunity to experience its handling and performance in ideal conditions, and later we went off-road in a nearby local quarry. It didn't disappoint at any stage.

Fuel Efficient

The DAF XF is powered by the multi-torque PACCAR MX-13 engine with new power ratings, including an extra powerful 390 kW/530 hp variant. Many innovations result in even more torque at lower rpm for highest fuel efficiency. Vehicles can now cruise at only 1,000 rpm, resulting in extremely low noise levels found in top class luxury cars. Additional torque is available in top gear for great driveability - and the MX engine brake delivers world-class braking power at lower revs.

To boost fuel economy, reduce emissions and lower operating costs, the DAF XF includes an extended set of Eco Mode options. The Eco Performance Mode ensures an optimal balance between high driveability and best fuel efficiency.





When fuel efficiency is leading, the Eco Fuel Mode is the best option, with gear shifting at lower revs for instance.

Incidentally, the DAF XF can run on HVO (Hydrotreated Vegetable Oil, a form of renewable diesel) which is one of the cleanest fuels on the market, eliminating up to 90% of net CO₂ and significantly reducing nitrogen oxide (NO_x), particulate matter (PM) and carbon monoxide (CO) emissions. HVO is compatible with all engines and requires no special maintenance.

The DAF XF comes with the latest generation of TraXon automated 12 speed gearbox. Less friction losses, even faster upshifts and the extended use of EcoRoll contribute to lowest fuel consumption, whereas driver comfort is enhanced thanks to its quiet and smooth operation and precise clutch actuation. The TraXon automated transmission also allows higher reductions in lowest gears through which even faster drive lines could be realised.

Safety features include Adaptive Cruise Control which automatically adjusts the truck's speed to maintain a safe distance from the vehicle ahead; Forward Collision Warning which generates a warning sound and a visual alert on the instrument panel, urging the driver to take action in order to prevent a collision; and an Advanced Emergency Braking System which intervenes to slow the truck down in an emergency.

Working Environment

Warm and tasteful dark sand colours of dashboard, seats, curtains, mattresses and side and back walls give the interior a great appearance to make you feel comfortable and at home, with a completely new climate control unit that stands out in comfort and user-friendliness. It features one-touch defrosting, park ventilation, park heating with timer, rest heat and automatic air

recirculation and can also be operated through the rear wall control unit.

DAF have also further expanded driver information, making it easier to take effective action. The beautiful and clear instrument panel has new fonts and a new styling for even better readability. The Driver Information Panel also provides more information to increase driver comfort and efficiency.

To enhance driver performance even further, settings are grouped on the instrument panel more logically and the Driver Performance Assistant includes even more tips for economical driving.

Thanks to smart vehicle electronics position of the individual switches can be adapted to personal preference of the driver. This adds to greater driver comfort as well as maximum vehicle efficiency.

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Engcon's automatic quick hitch system streamlines everyday excavator use

EC-Oil, Engcon's automatic quick mounting system, when combined with a tiltrotator and hydraulic tools, makes a huge difference to an excavator's productivity, increasing profitability, efficiency and safety for the excavator industry.

Indeed, the benefits are so strong that Engcon has decided to make EC-Oil accessible to as many operators as possible, by offering it without additional costs.

Using automatic quick mounting systems to attach hydraulic tools to excavators without leaving the cab has become more commonplace. This means that tools, hydraulics, and the electric and central lubrication are automatically connected.

After coupling the tiltrotator, the operator can connect hydraulic tools directly to or underneath it. The excavator's everyday use can be enhanced using the automatic quick mounting system in combination with the tiltrotator and hydraulic tools. The combination brings contractors more flexibility, improved efficiency and increases safety.



Engcon recommends that contractors operate products that are designed to work optimally with each other. In order to increase the number of excavators participating in smart digging, Engcon has chosen to offer its automatic quick mounting system with EC-Oil as a standard at no extra cost, when ordering a combination of tiltrotator, the quick coupler Q-Safe and Engcon's DC2 control system.

"Of course, we want to increase the safety, profitability and efficiency of the world's excavators, which is why we have chosen to make our automatic quick mounting system, EC-Oil, standard. In short: we want to offer all excavation engineers modern technology

that makes their everyday lives easier, enabling them to complete more jobs in less time and also make more money," says Stig Engström, owner and founder of Engcon.

"We do not want the cost of investing in EC-Oil to be an obstacle for our end customers, which is why we made this somewhat unique decision to offer our automatic quick mounting system at no extra cost. Of course, given that the customer buys Engcon's system - choosing Engcon should pay off."

Engcon's automatic quick mounting system is time-saving and safe, as the driver does not have to jump in and out of the cab to mess with manual, pressurised and often dirty hydraulic couplings.

"Depending on the type of work performed, the time savings can be up to one hour per day. A traditional replacement can take up to 3-4 minutes, while connecting a hydraulic tool with EC-Oil only takes ten seconds. This facilitates the excavator's work and makes the excavators even more profitable," concludes Stig Engström.

SITECH Technology Reducing Emissions in UK Construction

According to the UK Department for Business Innovation & Skills, the construction industry can significantly influence almost 47 percent of total carbon dioxide emissions in the UK. Small improvements across UK sites could lead to a big environmental impact, so what role does technology play in reducing emissions in UK construction?

Here Ian Barnes, Director at UK & Ireland's distributor of Trimble machine control technology SITECH, discusses how technology can minimise construction waste.

Unsurprisingly, the major causes of emissions in the construction industry are energy and material waste. Even before any structure is raised, vast amounts of materials need to be moved in excavating, grading and compacting. According to the National Building Specification, over 400 million tonnes of material is used per year in the UK construction industry, of which 60 million is sent to landfill due to poor management and error. It's not just material that's wasted but energy too. It's not unusual for rework to be carried out on a job site, as over-excavation is an easy mistake to make. During



this process, more fuel is used to operate the equipment and provide electrical power to the building site. Given that much of the equipment in question is designed to move tonnes of material, unnecessary emissions from rework can soon add up.

Finding root cause

The World Green Building Council states that considering the impact a construction project will have on emissions early in the process can significantly increase the potential for reduction. Operation and maintenance will always be limited to building things more efficiently but thinking ahead during the design and planning

stages could reduce the amount of work needed altogether.

Software that allows project managers to analyse haul loads, underground structures and simulate builds can help prevent large, wasteful errors that often occur with manual planning. By presenting non-visible factors such as underground plumbing and future building in a visually intuitive way, contractors can be more accurate in their planning and communication. Having a more solid and reliable plan to work towards will not only save money, it will also reduce the time needed to finish the job — therefore reducing the overall emissions.

Reductions at every stage

Even after the planning stage, there are steps that contractors can take to keep emissions to a minimum. For example, digitalising communication and using connected sensors reduces the need for face-to-face meetings, along with the associated travel. Not only does this reduce vehicle emissions, but it can decrease the chance of miscommunication and errors during construction as all of the details of the build are accessible digitally at any time.

Using Grade Control Systems for construction equipment, such as Trimble Earthworks, can also have a positive effect on emissions. They allow operators to maintain a constant depth, slope and elevation on excavators using digital systems with reduced manual inputs. This lessens the chance of human error while increasing the efficiency of the construction process. Integrating these systems is as simple as adding control boxes, angle sensors and body sensors to existing excavators.

With the right technologies at hand, project managers and contractors can significantly improve the accuracy and efficiency of their builds, reducing emissions and improving their productivity at the same time. **To learn how Grade Control Systems can increase the efficiency of your fleet, visit <https://www.sitechukandireland.com/grade-control/>**

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BOBCAT TELEHANDLER AND COMPACT EXCAVATORS IMPRESS OPERATORS AT MCCUSKER DEMOLITION LTD

Belfast based McCusker Demolition Ltd, who specialise in a wide variety of demolition and dismantling projects, has added two new Bobcat machines to its already impressive fleet of excavators and material handlers.

It's the first time the company, which attracts high profile clients from across the UK and Ireland, has invested in the Bobcat brand; the two machines, a T40.180SLP Telescopic Handler and an E62 Compact Excavator, were supplied by dealers Northern Excavators.

"While the company has had no experience of the Bobcat, some of our operators have worked with the machines in the past and, in part, it was their recommendation that influenced our decision to invest in them," says Ciaran McCusker.

Working on projects in urban and city centre areas and in sectors that range from domestic, industrial and commercial, to healthcare and education, only the best and most reliable equipment will do, and so far they have been very impressed with the Bobcats.

"You couldn't ask for better machines," says Ciaran. "They have been performing brilliantly on site; they are very versatile, reliable and robust machines."

"We were attracted to the T40.180SLP primarily for its 18m reach; it's ideal for working at height, and with a basket attachment we can easily transport men to those higher levels. It also has an excellent and comfortable cab that affords good all-round visibility which is essential for our type of work."

So, taking a closer look at the Bobcat T40.180SLP Telescopic Handler: with its 18m lift height and a maximum capacity of 4 tonnes, it provides a top-class performance for high-lift jobs, as Ciaran said. The easy-to-use compact stabilisers ensure that you can use the machine's full capabilities in the most confined working areas; in addition to safe working practice, the stabilisers are a big advantage when you need to get close to a building without losing reach.

Bobcat always strives to give you ideal working conditions, which, as Ciaran pointed out, includes providing good visibility beyond the immediate





working area. By ensuring that operators are always fully aware of their surroundings, the Bobcat panoramic cab design promotes greater safety.

Bobcat also offers you a genuine single joystick: not mechanical, not hydraulic - it is a fully electro-proportional joystick for all boom movements (lift, tilt, telescope), integrated FNR (Front/Neutral/Rear), auxiliary controls and machine setting controls. This gives the operator the highest possible accuracy and safety for lifting loads with care.

This joystick can also combine several movements at the same time, giving a huge gain in productivity. It remains intuitive while providing multiple settings: you can adjust the travel speed as well as the hydraulic flow to the auxiliary line. And this Bobcat joystick is safer too, as the operator always has one hand on the steering wheel.

Intuitive and all-in one controls on the joystick, spacious cab (even for tall operators), Fast Connect System



(to change hydraulic attachments easily), one step access to the cab and forward/reverse controls on the joystick all come as standard.

The ergonomic controls are well identified, backlit and logically positioned, while the adjustable steering wheel, simplified display screen and semi-automatic wheel alignment, amongst other features, add to the ease of use.

An automatic parking brake function provides an additional level of safety in everyday operations. It is automatically engaged at low engine revs or engine turned off, making operations simpler and faster for an operator who is concentrating on his job.

Compact Excavator

Ciaran adds: "What initially appealed to us about the six tonne E62 excavator was

its compact size and its zero tail-swing which make it perfect for working on sites that are restricted or are difficult to access with a larger machine."

The machine features advanced climate control, lower noise levels and an extra large cab, offering great operator comfort in terms of environment, leg room and visibility.

It has easy-to-master controls to give you perfect control of the boom, arm and bucket, even in the most challenging work environments; this predictable control is delivered through exclusive control valve systems and torque-limiting piston pumps that match force with demand.

Like all Bobcat machines, preventative maintenance is made easy thanks to Bobcat's simple industry-leading service access checkpoints.



Stanis Doherty (Northern Excavators), Gary and Ciaran McCusker (McCusker Demolition Ltd) at the site of the former St. Gemma's High School in Belfast.

compact equipment

Yanmar launches all-new B75W-5 compact wheeled excavator

Yanmar Compact Equipment EMEA has unveiled the next generation of its class-leading B75W wheeled excavator. Efficient, precise and dependable, the B75W-5 is perfect for urban jobsites, highway construction and landscaping projects.

Powered by the latest 73hp Yanmar 4TNV98CT turbocharged diesel engine with DPF as standard, the B75W-5 is fuel efficient, environmentally friendly and fully-compliant with EU Stage V emissions legislation. Delivering 295.5Nm torque @ 1,365rpm, the new model is extremely powerful (despite its compact dimensions) and can reach travel speeds of up to 36km/h.

Designed to deliver exceptional performance, the B75W boasts a digging depth of 3,500mm (TPA boom), digging force of 38,000N (at bucket edge), max reach of 6,990mm (TPA boom) and max dumping height of 5,050mm (TPA boom). An LUDV hydraulic system with four independent circuits offers total flexibility, meaning the driver can simultaneously operate a tilt rotator with a hydraulic quick-hitch system and a hydraulically-driven tool (such as a sorting grab, asphalt cutter or cutting unit).

Thanks to its unique axle design (with 14° pendulum angle), minimum tail swing, laterally installed engine and low centre of gravity, operators are guaranteed class-leading stability (especially for craning work) – even with the boom fully-extended.

Further design benefits include articulated joint with wide angle of articulation for working closely to walls.

Fitted as standard with Yanmar's proprietary Smart Control operating system, the driver



can quickly select optimum excavator power levels for different applications. Numerous controls have been redesigned for faster operation and improved real-time monitoring, while a new display design (alongside precise thumbwheel on the joystick) makes the system more ergonomically-friendly than ever.

The all-new B75W-5 is fitted with LED lights mounted on the boom as standard, with specialist lighting packages available as optional extras. This allows drivers to specify front and rear working lights, double-beams and even rotating beacons, to suit exact requirements and maximise on-site visibility.

Designed with the operator firmly in mind, the machine's comprehensive option list doesn't end there. Float position function on the front dozer blade (activated via

the LCD monitor) allows the blade to follow soil contour by weight, making levelling and filling work easier than ever.

In addition, an all-new automatic refuelling pump prevents overfilling and allows drivers to refuel with a single button.

Further options include narrow width Michelin Bibload HS tyres, which are specifically designed for efficient operation on hard surfaces, touch screen control pattern change (from ISO to SAE controls via LCD display) to provide even greater flexibility, circular boom for small working envelopes and extended dipperstick for increased reach.

A whole host of new attachments have also been developed for the excavator, including a bucket and fork carrier, mechanical/hydraulic quick couplers, standard/grading/swivel buckets and DMS breakers. Each new attachment

improves customisation and makes the B75W-5 perfectly tailored to your job.

As with all Yanmar wheeled excavators, the B75W-5 prides itself on a spacious, comfortable, ROPS/FOPS-approved ergonomic operator station to maximise productivity. Noise and vibration dampening, a 7" anti-reflective display screen, extra-wide keypad and optional automatic air conditioning make the cabin both comfortable and practical.

Even maintenance simplicity has been considered, with ground-level access to the central electrics service compartment and a ladder integrated into the service flap for increased reach. Class-leading, high performing and completely customisable, the B75W-5 is your perfect jobsite partner.



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compact equipment

NEW HIRE COMPANY OPTS FOR YANMAR MINI EXCAVATORS

When Barry Hughes and son Matthew decided to branch out into plant hire they had no hesitation in adding a number of Yanmar mini excavators to their steadily growing rental fleet at H2Hire in Armagh.

They are no strangers to the industry, having established utility management company H2flow some 12 years ago, gaining vast experience in location, tracing, repair and surveying of underground water mains supply pipes and services.

"Over the years as H2flow we have had to hire in plant and equipment to carry out some of our work," says Barry, "and we also gained some experience in hiring

out surveying equipment, such as CCTV cameras, so setting up H2hire seemed like a natural progression."

H2hire offers high quality, specialist plant and tool hire to both the trade and public, including compaction equipment, diggers, dumpers, rollers, lighting towers, and surveying equipment. The company is regularly expanding its hire fleet.

The company's most recent acquisitions include four brand new Yanmar mini excavators from Crumlin Plant Sales which have been out on hire from day one.



"Through H2flow, we have enjoyed a long-term relationship with Crumlin Plant Sales. We have always found them to be efficient and professional in every way, providing general and technical support."

Proven Reliability

So why Yanmar? "Our customers like the machines, they are very reliable, and being zero tail swing they are ideal for utility work which is more often than not carried out on sites where space is very restricted. We already had a number of machines from Crumlin Plant Sales, so we had no hesitation in taking delivery of these four new Yanmars."

The Yanmar SV08 is regarded as one of the best micro excavators in the market, being well suited for work in confined spaces; its variable undercarriage improves the stability of the machine which features an extendable folding blade for increased efficiency

The Yanmar SV18, meanwhile, is capable of carrying out the most complicated jobs. It is intended for a wide range of applications such as urban renewal, grading or landscaping. Being compact



H2HIRE OFFERS HIGH QUALITY, SPECIALIST PLANT AND TOOL HIRE TO BOTH THE TRADE AND PUBLIC, INCLUDING COMPACTION EQUIPMENT, DIGGERS, DUMPERS, ROLLERS, LIGHTING TOWERS, AND SURVEYING EQUIPMENT. THE COMPANY IS REGULARLY EXPANDING ITS HIRE FLEET.

Matthew Hughes, H2Hire

and lightweight, it can easily be transported on a trailer. Its stability and power enable it to work effectively regardless of the difficulty of the jobsite.

As a mini digger, the Yanmar ViO27 offers exceptional performance for a machine of its class. Its unmatched compactness makes it ideal for urban environments where space is limited, while its Zero Tail Swing improves the safety for both its operator, nearby workers and surroundings.

The fourth new machine in the H2hire fleet is a Yanmar ViO33. Like the others, it is a true Zero Tail Swing mini-excavator that allows a full rotation of the upper frame within the width of the crawlers for maximum safety.

It is powered by the latest generation of Yanmar TNV engines; this electronically-controlled 3-cylinder engine with direct injection offers improved performance, fuel consumption and emission levels.

Like the ViO27, the ViO33 is equipped with a VIPPS hydraulic system which cumulates the flow of separate pumps in order to obtain the optimal combination in terms of speed, power, smoothness and balance to allow

smooth and simultaneous performance of all the operations, even while travelling.

Delivery Service

All machines and equipment rented out by H2hire, which offers its customers an efficient and prompt delivery and collection service, are fully serviced and maintained to ensure optimum performance and reliability.

"We are always open, so our customers can have every confidence that they will have the very best support and service from H2hire."



compact equipment

New Stage V Telehandlers and Compact Track Loaders from Bobcat

Bobcat is launching new Stage V compliant telehandlers alongside Stage V versions of the company's M-Series T450 and T590 compact track loaders. In both the new telehandlers and compact track loaders, the changes include several new features and options.

The new machines are powered by proven Bobcat D34 and D24 Stage V high torque diesel engines, designed specifically for Bobcat compact equipment. Both of the new Stage V engines are based on well proven designs installed in thousands of Bobcat machines worldwide.

The new D34 Stage V engine allows customers to operate their telehandlers in emission-regulated zones, thanks to the new DPF after-treatment system. In addition, the engine does not use Selective Catalytic Reduction (SCR), so there is no need for AdBlue®.

A key aspect of the D34 Stage V engine is the new autonomous after-treatment system - DPF regeneration is performed automatically, with no impact on performance - this ensures peace of mind for the operator, allowing them to concentrate solely on the work at hand.

"The 75 HP engine is mainly used by construction and rental companies in the United Kingdom, Italy and Benelux owing to its competitive price and simplicity, whilst still providing plenty of power to tackle all applications on the jobsite," says Quentin D'Hérouël, Product Manager Telehandlers at Doosan Bobcat.

The D34 Stage V 56 kW (75 HP) engine in the new telehandlers provides an



average 7% lower fuel consumption and offers a 14% higher torque than the previous Stage IV engine, for more power at lower RPM and faster recovery.

There is a choice of 11 different Bobcat telehandler models with the 56 kW (75 HP) Stage V engine, covering maximum lifting capacities between 2.6 and 4.1 tonne with lifting heights from 6 to 18 m.

The Stage V telehandlers feature a new engine hood with a steeper profile that increases visibility and reduces blind spots by 15% on the right hand side of the machines. Access to the engine compartment has also been improved, enabling easier maintenance.

All Bobcat telehandlers are covered by a three year/3000 hour warranty as standard from the factory, with the option of extending the warranty to five years/6000 hours. The entire Bobcat range of telehandlers is designed and produced at the company's plant in Pontchâteau in France.

Track Loaders

The new T450 and T590 Stage V compact track loaders follow on from the recently launched Bobcat M-Series S450, S510 and S530 Stage V skid-steer loaders. All new M-Series loaders provide operators with increased performance, enhanced comfort and optimised maintenance requirements. These M-Series loaders are among the first models in the Bobcat compact equipment range in Europe to have the company's new machine styling scheme, which includes 3D decals for the first time.

Thanks to the new Bobcat Stage V engine, noise levels have been reduced for both bystanders and operators and the vibrations lowered significantly as well to further increase operator comfort. The first engine oil service interval has also been extended to 500 hours, and improved fuel filtration means less frequent filter replacements and reduced running costs. Additionally, new DPF after-treatment technology works automatically without any interaction during normal operation.

The new Bobcat D24 Engine – with Bosch Fuel Injection System – improves overall machine performance, while meeting the strictest Stage V emissions regulations. Moreover, the engine power to weight ratio has been optimized in both of the T450 and T590 loaders.

The new Stage V loaders now feature the previously optional Deluxe control panel as standard, offering a choice of different languages and telematics to protect the machines and to monitor their performance. The Deluxe panel also reduces the risk of misuse thanks to the keyless function.

Family Businesses Boost Industry Confidence & Improve Safety Standards

Three of the industry's most recognised family businesses have collaborated on a post lockdown deal that will drive safety standards, reduce risk and improve efficiency on site.

For over 55 years Suffolk based Breheny Civil Engineering Ltd has been building Britain's Infrastructure. Essex based, Ernest Doe, who began trading in 1898, have been supplying the construction sector since the late 1950's, whilst Thwaites began production from its Warwickshire base in 1937, some 83 years ago.

The deal for 15 x cabbed, 9-ton forward tip dumpers has been delivered in August 2020 and will be heading out to major infrastructure projects across the Breheny operating area.

Breheny Plant Operations Manager Andrew Dobrucki said: "Thwaites dumpers have been an integral part of the Breheny plant fleet from the very early years on site. We are committed to achieving the highest possible standards, so much so, we invited Thwaites to provide demonstration models of their 9-ton cabbed dumper

to our infrastructure project at Beaulieu Park, Chelmsford.

"The dumpers were put through their paces over an extended trial period. The performance feedback from both the users and the site management team, showed a clear preference for the Thwaites 9-ton cabbed dumper, rather than its peers. Whilst this came at a cost premium, the robust build, safety characteristics and performance were considered to be compensatory factors in mitigating the premium".

Ernest Doe Area Sales Manager Nigel Booley said: "I was

delighted to conclude this deal with Breheny. Firstly because it is a significant indicator of the confidence within the industry, post COVID-19, and secondly given the competitive landscape and interest in this opportunity."

Thwaites Distributor Manager (South) Paul Rodwell said: "Thwaites were pleased to support, Ernest Doe on this prestigious deal. Breheny have a clear behavioural safety initiative of, Think Safe, Work Safe and Home Safe which is congruous with that of Thwaites and the design features of the 6-ton and 9-ton range."

GLENDUN PLANT SALES ADAPT SUCCESSFULLY TO THE 'NEW NORM'

Despite the challenges of the Covid-19 pandemic and subsequent lockdowns, Glendun Plant Sales quickly adapted to the 'new norm' and has continued serving its diverse customer base throughout the crisis.

Its 'one stop' shop strategy has been well appreciated and supported by the rental & utility sectors & contractors across the Province, thanks to an excellent portfolio of compact equipment for a wide range of industries - from telehandlers, dumpers and access platforms to compressors and lighting towers.

"Sales have been very steady across the whole range," says Glendun Plant Sales' director, Dermot Cunnie. "While it is difficult to plan ahead in the current climate, we have been holding extra stock of most items to ensure good availability for our customers."

He adds: "Moving into winter there's an increasing demand for lighting towers. Indeed, we recently received an order for 40 X-Eco light towers from TRIME, and we are awaiting more supplies to meet the demand."

"Our new IQ pop-up range of compact low level access lifts have also been selling well. With a working height of five metres, they can easily operate in the smallest and most awkward spaces with a low weight."

Small and lightweight, the pop-up lifts can be moved around manually; they have swivelling wheels that make it easily manoeuvrable around any site and can withstand the demands of everyday use on site while offering enhanced safety features.

Wacker Neuson

Also performing well are the consistently popular Wacker Neuson range of compact excavators which includes the 4 ton EZ36, the EZ26 2.7 tonne zero tail excavator and the 1.6 tonne ET16, both of the latter can be quickly and easily be transported



from one construction site to the next. The TH412 4m mini handler is also one of the most popular handlers in its size range.

Glendun Plant Sales have also recently sold some of the new 9 tonne ET90 track excavators; its compact size, high performance and low centre of gravity allow this excavator to work in a variety of applications, especially in confined areas.

Skyjack

Meanwhile, the range of the world renowned Skyjack scissor lifts also continues to perform well, not least because it has been designed to be easy to service and maintain, which is a big attraction for rental companies.

Glendun Plant Sales recently sold the first of the new Skyjack 15 metre reach, diesel SJ9243 full size rough terrain scissor lifts, the first in Ireland. Among the most popular models in the range are the diesel powered SJ6832RT, a compact and manoeuvrable rough terrain scissor lift, offering a working height of 11.75m, the SJ3219 electric scissor lift with a reach of 7.79m and the SJ3226 electric scissor that offers a working height of 9.92m.

Niftylift

Meanwhile, one of the most popular in the Niftylift range is the 120TPE, a 12m bi-energy (petrol & battery) powered trailer

mount, which delivers maximum reach performance from the most compact chassis possible. By utilising its versatile telescopic upper boom, it delivers unrivalled working outreach, especially at lower levels where it's needed most.

Tracked booms, including 12m and 15m TD120 and TD150, are also in demand as are Niftylift's innovative bi-energy HR12 4 x 4 and HR21 Hybrid 21m self-propelled booms. These offer the benefits of low overall weight, good manoeuvrability and excellent reach performance, coupled with an environmentally conscious bi-energy power system that reduces emissions and fuel consumption without compromising on performance.

TRIME

With the dark nights of winter, the TRIME range of site lights continue to be big sellers, especially popular with local rental outlets and contractors. Long running fuel performance and LED lights are the main features of these units, an order for 40 of which was recently received by Glendun Plant who are now awaiting further stock.

Service & Support

Being centrally located in Mid Ulster means that Glendun Plant Sales can easily service its customers no matter where they are in the territory, with availability of equipment exceptionally good, even in these difficult days, and while product quality and reliability are vitally important, equally so is a high level of aftersales support, which customers appreciate.

"Customers cannot afford the luxury of unnecessary downtime, especially in the present operating environment, which is why we place a great deal of emphasis on after-sales support and why we have invested considerably in our aftersales and in staff training," adds Dermot.



compact equipment

Tobroco-Giant Reveals G2700 Successor of Best Seller

For years, the V452T was the best-selling model from the TOBROCO-GIANT model range. With the arrival of the G2700 models, the machine has received a worthy successor. Not only is the G2700 more powerful when it comes to engine power and traction. Due to a higher operating weight, the tipping loads have increased considerably. This makes the G2700 a modern powerhouse with compact dimension.

The G2700 is available in four different models. These are the G2700 HD, G2700 X-TRA HD, G2700 HD+ and G2700 X-TRA HD+. All 4 models are powered by a 3 cylinder Kubota engine with 50 hp. The engine is equipped with DOC and DPF and meets the latest EU Stage V clean engine standards. In addition, all models are powered by a hydrostatic all-wheel drive with automotive steering.

The difference between the G2700 (X-TRA) HD and G2700 (X-TRA) HD+ is reflected in the use of different planetary axels in HD version. The G2700 HD and G2700 X-TRA HD are equipped with 8 tons axels with limited slip and these provide a pulling



force of 20,000 N and a maximum driving speed of 25 km/h. The G2700 HD+ and G2700 X-TRA HD+ are equipped with 12 tons axels and electrically switchable 100% lock on both axels. This powertrain provides a pulling force of 28,000 N and a maximum driving speed of 30 km/h.

Whether it concerns work in the field of infrastructure, on construction sites, for gardeners, earthmoving or agricultural applications. The G2700 can be used for all sectors and can be used all year round. Using the hydraulic quick coupler,

it is possible to change tools within seconds and adapt the machine to the current work.

The articulated pendulum joint gives the G2700 a small turning circle, which allows the machine to operate in confined spaces. This system also gives the wheel loaders a lot of stability because it ensures that all four wheels remain on the ground, even when working on uneven terrain. This makes it not only safe to work, but there is always sufficient traction. The fact that the machines can be transported on a trailer provides flexibility

for the user. This makes the G2700 easy to use in places where the work requires it.

Both the G2700 HD and the G2700 X-TRA HD have an operating weight of 2,550 kg. This gives the model with the standard lifting arm a lifting height of 2.96 meters and tipping load of 2,375 kg. The G2700 X-TRA HD has a lifting height of 2.5 meters and a tipping load of 2,850 kg. The operating weight of the G2700 HD + models is 2,600 kg and this provides a tipping load of 2,400 kg for the G2700 HD + and 2,900 kg for the G2700 X-TRA HD + respectively.

The G2700 models come standard with things like a ROPS / FOPS safety roof, double-acting hydraulic function on the lift arm and a luxury suspension seat. Optionally, the machines can be equipped with items that are desirable for the work to be performed. This starts with the choice of a standard lifting arm for working at height or the X-TRA variant with a lower front frame that is specifically developed for extremely heavy work in construction and earthmoving.

Then there is a wide choice of options, such as a spacious ROPS / FOPS cabin, extra double-acting (proportional) functions, electrically switchable tandem pump or road approval. With these options, TOBROCO-GIANT ensures that every customer can configure a G2700 for maximum uptime.

Yanmar ViO23-6 offers compact performance for urban worksites

Designed for worksites with limited access and operating space, Yanmar's ViO23-6 mini excavator is ideal for urban environments. With its zero-tail swing design, neither the counterweight or upper frame extend beyond the width of its tracks, offering safe and predictable operation in tight spaces.

Powered by Yanmar's proven 3TNV76-PBV1 engine, the ViO23-6 is quiet, efficient and reliable. Harnessing an indirect injection system and mechanical speed governor, the engine delivers 14.6kW power at 2,400rpm. Auto-deceleration and eco-mode features are included as standard, improving fuel economy and reducing emissions.

The ViO23-6 offers exceptional performance for its class, with 13.1/17.5kN of digging force (arm/bucket) to a depth of 2,655mm. Smooth and predictable control is provided by the ViPPS (ViO Progressive 3 Pump System) hydraulic system, which uses



three separate pumps – one variable displacement piston pump and two gear pumps – to allow for simultaneous operation of controls. The ViO23-6 also makes use of a 1,550mm wide extendable folding blade that offers tool-less extension changes.

With a variable undercarriage that can be easily extended and retracted with a single lever, the ViO23-6 can access tight spaces, while offering enhanced stability once extended. It can perform on

a variety of surfaces, with an operating weight of 2,245kg for the canopy version and 2,405kg for the cabin model. Its low transport weight of 2,270 kg means worry-free towing on a 3.5t trailer, even with a breaker and buckets on board.

Operators benefit from a spacious cabin and triple mirrors designed to provide 360° visibility. An adjustable air suspension seat reduces fatigue, while increased legroom and ergonomic arrangement of the operating controls maximises comfort. The ViO23-6 cabin has been designed to meet ROPS (Roll-Over Protective Structure) certification and FOPS (Falling Object Protection Structure) Level 1.

A 3.3" digital interface informs the operator in real-time about the machine's status, including fuel level/consumption, coolant temperature and LED lamp control. The interface also monitors maintenance intervals and functions as a diagnostic tool by reporting error codes to the operator.

Hiab's Strategy to Increase Network Coverage Wins

Hiab's strategy to increase network coverage across the UK and Ireland is paying dividends as more businesses invest in reducing downtime.

To keep trucks moving a 150-strong team of professional support engineers are on hand to support drivers who have an issue with a Hiab crane or demountable when on the road.

Managing director for Hiab UK Ian Mitchell said the on-road support differentiated them in the market place, proving to be a deciding factor when investing in cranes and specialist on-road handling equipment.

Ian said: "One of the biggest strengths we have in the UK and Ireland is our network coverage. We have access to 150 highly-

trained field engineers in the UK; this level of coverage gives us a leading edge over the competition and it's paying off as we are seeing businesses choosing Hiab as a result."

Builders Merchant JT Dove has recently invested in seven Hiab X HiDuo 158 cranes on Mercedes chassis. Operations manager, Chris Pearson explained the decision to choose Hiab was made easier because of the service support offered.

"Hiab has seven service engineers in our region in comparison to the competitor who only has three. The number of engineers on the road makes a big difference to us; we are more reliable and able to provide a better-quality service to our customers."



Regional manager for the Hiab UK North, Ian Bebb said: "Our customers are never more than an hour away from one of our service engineers. Reducing downtime and having confidence in the support network is a big part of our plan to become the number one partner of choice for suppliers."

No Going Back for JCB 'Superfan' After JCB Hydradig Purchase

A plant fanatic who used to write to the Chairman of JCB as a teenager now has his own successful quarrying business and has just added a brand new JCB Hydradig 110W Wastemaster to his fleet.

The owner of landfill & quarrying company Macwill Services, of Newtownabbey, near Belfast. Christopher McLaughlin is a self-confessed JCB 'superfan', refurbishing over 30 JCB machines during his career, and even having a spell working in the factory at JCB's World HQ in Staffordshire in his late teens.

The new machine is the first of the latest JCB Hydradig models to touch down on Northern Irish soil and boasts an enhanced cab to improve the operator experience, boost productivity and further reduce ownership costs.

Supplied by dealer Dennison JCB, the new Hydradig is being put to use on a range of applications on Macwill Services' landfill site, quarry and farm estate which, as it is self-contained, has been able to continue operating during the Covid-19 crisis.

Macwill Services Director, Christopher McLaughlin aged 46, said: "I've been a JCB fan all my life – some people are fans of Manchester United, I'm a fan of JCB. I'm a JCB nerd and proud of it. My first JCB machine I bought because it



Christopher McLaughlin, JCB superfan.

was JCB, a second hand 3C Mark 2 which I refurbished and sold on. I've refurbished over 30 JCBs over the years.

"I've always been interested in and impressed by the Bamford family and the confidence they have in their products. I like that JCB is family-run, like us. I used to write to Lord Bamford when I was 12/13-years-old and was invited to the factory for a visit. I was also lucky enough to meet Mr JCB twice in my life and have his autograph on display in my office. We've always been treated very well by JCB.

"We bought the new Hydradig as an all-rounder for doing lots of different jobs. It's a beautiful machine and beautiful performer. With its versatility it only takes one man to do a lot of work. The array of compatible attachments replaces labour

and saves time and money on additional machinery. With the joystick controls it's like an extension of your own arms. The machine has been slogging its guts out brilliantly – particularly in the landfill site.

"Even as massive JCB fan we did evaluate competitors' equipment as I always like to make an informed decision but there's nothing else like it on the market. JCB has really thought about what people need with the Hydradig. The comfort and ease of operation is superb and once you have made the switch you won't go back. It's like driving an automatic car for the first time!"

The new JCB Hydradig Wastemaster model joins an extensive fleet of JCB machinery spanning from a 1970s JCB 3D Mk 3 backhoe

loader and classic JCB 805B Turbo excavator through to modern day Loadall telescopic handlers and backhoe loaders.

The JCB Hydradig was first introduced as a ground-breaking digging, lifting, loading and tool-carrying machine for urban construction, highway maintenance and municipal operations but has since found favour in numerous additional roles.

Key features include: a low centre of gravity to allow stable lifting and excellent travel speeds up to 40km/h between job sites, all-wheel steer enabling maximum urban usability and ground level access to all maintenance points.

The redesigned cab on the brand-new Hydradig offers improved forward visibility, which is proving highly beneficial when powering the tiltrotator and wide range of attachments used across Macwill's site including road sweeper, trailer forks, strimmer and a tilt rotator.

Macwill Services has been established for 35 years and three generations of the McLaughlin family with a 300-acre site comprising of landfill, rock quarry and farm estate. Prominent in Belfast, Macwill Services operates a predominantly JCB fleet boasting a range of JCB machinery from the 1970s through to the modern day.

MACLEOD CONSTRUCTION AND SANDVIK CELEBRATE TWO DECADES OF PARTNERSHIP

MacLeod Construction Ltd may have been founded on traditional house building values, but it has successfully embedded modern construction and quarrying practices into its operations. Based in Lochgilphead, the multi-faceted company are one of the largest private employers in the area and remain an innovator when it comes to materials, production and management.

For over 20 years, Sandvik Mobile Crushers and Screens has provided unrivalled service and highly specialised crushing equipment to assist our partner in achieving their visionary growth. Built on similar core values, it is no surprise that MacLeod Construction Ltd and Sandvik have maintained and developed a strong relationship for two decades.

The secret of MacLeod's success is the acknowledgement that there is no substitute for a skilled workforce and they preserve a highly personal touch when dealing with customers - two key ingredients which are vital to how Sandvik conduct their operations. Whilst staying true to their traditional values, the business has evolved and grown

since twin brothers Murdo and Kenny MacLeod founded the business in 1975. Back then it was a simple house builder.

Fast forward to 2020, and MacLeod employs over 200 people locally. They have diversified the business to include a factory in Lochgilphead which produces kits for residential and commercial properties of every size, shape and type.

They have expanded their expertise beyond building and timber kit specialists – and into UPVC double-glazing and conservatories. They also have a successful portfolio of

rental properties in the area and own and operate two quarries in the locality.

The need to provide stone and aggregate of the highest quality, at the right time, and in the right quantities, has proved to be crucial in the further successful development of the construction side of the business. Initially their Sandvik crushing machines were incorporated to assist in the delivery of their own construction projects, however as time and the industry moved on – so did their business. Using their fleet of Sandvik machines, MacLeod now stockpile product which is used for a variety of applications. They now sell aggregates to local councils and other contractors in the area.

Thinking ahead has led to the vision of Murdo and Kenny MacLeod becoming a reality. With no end to the innovative thinking, the next generation of the MacLeod family are continuing their legacy. Greig MacLeod, Business Development Manager, is a second generation family member notes that the business trusts Sandvik for their dependability and versatility of the machines, just like his dynasties did. He says, 'We originally chose



USING THEIR FLEET OF SANDVIK MACHINES, MACLEOD NOW STOCKPILE PRODUCT WHICH IS USED FOR A VARIETY OF APPLICATIONS. THEY NOW SELL AGGREGATES TO LOCAL COUNCILS AND OTHER CONTRACTORS IN THE AREA.

Sandvik based on track record and word of mouth. The reliability and service we have been provided with has remained constant over the past two decades.'

Since their quarry operations began, they have been a loyal customer of Sandvik and are now on their third set of crushing machines. Recently, Macleod purchased a new QJ341 mobile jaw crusher and a QH332 Hydrocone mobile crusher. This compliments their existing QA331 tracked screener which they purchased a few years ago. Combined, these machines provide ultimate versatility in choosing aggregate sizes which are flexible, depending on their customers' requirements. Greig notes, 'The use of Sandvik equipment allows us to produce the materials we need and to the quality levels our customers need. We predominately crush to 20mm, 40mm and dust which we mix together to get Type 1, the main material we produce.'

Essentially, the three Sandvik machines are capable of working together as a crushing and screening train, or separately as independent units. The QJ341 mobile jaw crusher reduces the quarried rock



Sandvik Engineer, Adam Frame and Macleod Business Dev Manager, Greig Macleod.

down to a manageable size with the QH332 producing accurately sized and shaped aggregate for use on the building projects. If the material requires further sizing, or cleaning, then the QA331 finishes the process producing three accurate gradings.

The highly productive and efficient QH332 tracked, self-contained cone crusher is fitted with a CH430 cone which is at the heart of this world leading piece of technology. It is equipped with a hydroset system which provides CSS adjustment at the touch of a button. The automatic setting regulation system not only optimizes production, it also keeps track of liner wear, making it easy to plan liner changes and minimize interruptions in production. The CH430 cone has choice of six concaves and three eccentric bushes providing a range of throws from 16 mm to 36 mm, with these providing unrivalled flexibility regarding CSS ranges, production and material gradation.

Macleod's have found great benefits of using this machine beyond the reliable output levels. With Sandvik My Fleet fitted as standard to their latest

equipment, this remote monitoring system has been purpose developed to help customers know how to best utilize their plant. 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. Greig keeps a close watch on the telematics on his mobile devices as the interview is underway. He adds, 'MyFleet has been great to date and we look forward to seeing where it takes us in the future, it is beneficial for our mechanics to use as well.'

Building a partnership over two decades not only demonstrates the quality and reliability of Sandvik machines but it is also a testament to how customer service has been delivered. When quizzed on the relationship and service provided, Greig beams, 'The after sales service has been fantastic and that's why we use Sandvik time and time again. They have local representatives who come out if there's ever a problem and it's dealt with very quickly. Our plant manager uses Sandvik time and time again, they are friendly and helpful.'



crushing and screening

COMPACT & POWERFUL RUBBLEMASTER IS A PERFECT FIT FOR MCSWEENEY BROS



When McSweeney Bros in Cork wanted to invest in a machine to recycle asphalt they had no hesitation in taking a close look at a Rubblemaster RM70, one of the most popular crushers in the manufacturer's range – and then they went one step further and did the deal with suppliers SME Plant Sales in County Meath.

With low emissions, low noise and low diesel consumption, the RM 70 is a compact and extremely high output mobile crusher, meeting the most demanding expectations in terms of flexibility and handling. It is a versatile machine and can process a wide range of materials including rubble, asphalt, concrete and medium-hardness natural rock.

Amongst the most lightweight crushers, it is the first Rubblemaster acquired by the company and according to McSweeney Bros quarry manager Tim Cotter, the machine has been a perfect fit. "The quality of the design and finish of this Rubblemaster is excellent," he says.

The company, who operate their own Asphalt Manufacturing Plants, have been in business since 1971 and today has grown into McSweeney Bros. Quarries Ltd and McSweeney Bros Contracts Ltd, covering

Counties Cork and Kerry and further afield. It operates out of a number of quarries and gravel pits near Timoleague and at Kilmichael. Straightforward, compact and powerful is how SME Plant Sales Director Dan Daly describes the Rubblemaster. "We are not surprised by its popularity. It weighs only 19 tonnes

and is very easy to transport from site to site, offering a good production rate of 150 tonnes per hour and good fuel economy thanks to its John Deere drive system."

It's those features that clearly attracted McSweeney Bros to this operator friendly machine. Says Tim Cotter: "Our operators





WITH ITS HIGH PRODUCT QUALITY, HIGH THROUGHPUT AND COMPACTNESS, THE RM 70 IS EASY TO MANOEUVRE AND EASY TO FEED. IT OFFERS TOTAL FLEXIBILITY IN QUARRIES AND ON CONSTRUCTION SITES.

AT A GLANCE

Drive System: John Deere Motor

Throughput: Up to 150 t/h, depending on material

Feed material size: Up to an edge length of 600 mm

Feed opening: 760 x 600 mm

Crusher unit: RM crusher with 2 or 4 hammers, 2 rotor speeds

Feed unit: Asymmetric 2 m³ vibro-channel with 2 vibration motors (3.1 kW each), loading height 2,660 mm, effective cross-section of feed intake: 2,500 x 1,800 mm.

Feed Control System for automatic load-dependent crusher feeding wear-resistant cladding Hardox 400

Main discharge belt

(Aggregate): Folding conveyor 800 mm wide, folds into transport position hydraulically

Discharge height: 2,720 mm

Transport Dimensions: 13.300 x 2.360 x 3.100 mm

Transport system: Tracks

Weight: 19,500 kg

found the cordless remote feature a huge benefit to the overall machine operation, starting with a very responsive mobility tracking system, and also the ability to open the impactor intake area for oversized materials to progress to crusher. The vibrating feeder speed is also adjustable, if necessary, and all of this easily done remotely from the excavator cab."

He adds: "The machine comes with a good operator's manual and all greasing points are on an easy-to-follow colour code chart detailing amounts and time schedules. There is good access to all compartments for routine servicing, as well as quick and easy access to the impactor chamber for hammer inspections; crusher calibration requirements can be carried out with few adjustments.

"The Rubblemaster is only used for recycling asphalt at the moment and surprisingly the hammer abrasion is high; at the moment the hammers are turned every sixty hours with a full-time life of 120 hours maximum. Overall, the machine is designed very well."

The company has been dealing with SME Plants Sales for some time. "Being nationwide, we provide all our customers

with a high level of aftersales support and service," says SME's Dan Daly. "We have built up a good working relationship with McSweeney's over the years and are delighted they have invested in this latest Rubblemaster which should serve them well in the years ahead."



NEW TESAB JAW CRUSHER WORKING AT BUSY QUARRY FACE

A busy quarry in County Tyrone has recently taken order of a new Tesab Jaw Crusher and has already put it to good use at the quarry face.

The quarry in Sixmilecross has been operating a brand new Tesab 700i Jaw Crusher to crush blasted material down to 120mm before it enters a screener to be separated into other saleable products. Struggling with their previous crusher set up, Tesab came in to review the application and tailored a spec for the 700i that would enable the quarry to get the most out of their application.

The 700i uses its pre-screen to clean up dirty 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 that provides a better quality material at less cost per ton."

The Tesab 700i is powered by a CAT C9 engine with a direct drive system and large flywheel making it much more fuel efficient. Coupled with its high throughput and material separation, this helps create an overall low cost per ton by increasing production and reducing wear costs.

A member of the quarry team commented: "As well as improving overall capacity, the 700i creates a much cleaner product at a lower cost. We have always been more concerned with a steady, continuous production rather than short, high peaks and 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!"

**Want to
Lower Your
Cost Per
Ton?**

**Hire
& Leasing**
Options Available

Tesab 700i Jaw Crusher

Contact Tesab

+44(0)2882 252781

sales@tesab.co.uk

www.tesab.co.uk



Gyru-Star Compact Screening Systems®



Wheatway Solutions Ltd, Unit B3 Brearley Place, Baird Road, Waterwells Business Park, Gloucester GL2 2AF UK
+44 (0) 1452 728448 | sales@gyru-star.com | www.gyru-star.com

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Fast Efficient Compact Screening System

OPERATORS OPT FOR GYRU-STAR INNOVATIVE COMPACT SCREENING SYSTEMS



Operators in the construction, landscaping and agricultural sectors across Ireland seeking a fast and efficient screening system, are increasingly turning to the unique and innovative Gyrus-Star range, as Plant & Civil Engineer has been finding out.

A cost-effective compact screening bucket for soils, aggregates and compost, Gyrus-Star is distributed by Plant Services Ireland based at Ashbourne in County Meath and which is headed up by Brendan Commins.

The keenly priced range of screening buckets, manufactured in the UK by Gloucester based Wheatway Solutions Limited, are suitable for excavators between one and 30 tonnes, as well as other small machines including skid steers, telehandlers, agricultural tractors and backhoe loaders.

What makes the Gyrus-Star so effective and so unique is its clever design incorporating flexible poly stars. Unlike the steel alternatives, these screen without crushing and shredding, virtually eliminating the potential for sharp stones, while producing a very fine product size.

"Some are surprised that the star-shaped teeth of the Gyrus-Star are made of polyurethane instead of steel. Some even make the mistake of thinking they're not sturdy. The truth is that it creates a fast and efficient self-cleaning action without crushing or shredding. Polyurethane also makes the



bucket lighter and easier to transport," says Brendan Carroll from Wheatway Solutions.

All Gyrus-Star buckets use sealed bearings – so no greasing - and combined with Poly Chain carbon belt drive lines with belt tensioners they require little or no maintenance or

regular servicing; a pre-season check should be all that is needed.

With a near silent operation, the screening buckets which feature a powder coated frame, are ideal for the likes of utility companies and other contractors working in built up or residential areas.

The buckets, being small and light enough to fit on to the back of a normal pick-up truck, would also be well suited for hire companies seeking a new and profitable product line.

Satisfied Customers

So, what do contractors and end users think about them? First, we asked Norman O'Brien from CGR Construction & Plant Hire in Ashbourne; he recently fitted a 4-120HE bucket to his 13 tonne Kobelco excavator.

"It's been an excellent investment," he says. He is currently using the bucket to screen topsoil. "We operated a screener before, but this is so much more mobile, effective and efficient on site. It makes our work that much easier."

Similar sentiments have been expressed by Brendan Walsh from Meath. The





landscapers, who recycle green waste, is using a 3-150L Gyrustar on a Manitou teleporter to grade compost.

"It is a cost-effective way to obtain a screener without having to invest a huge amount of money," he says. "It is a perfect fit for our operation and has enabled us to better utilise the machinery we already have. The teleporter is one of the smallest yet it drives the bucket very well; it takes very little power and runs smoothly off the hydraulics."

We've also been speaking to Martin Goucher, Head of Product Sales at Peter O'Brien and Sons Landscaping Ltd in Swords outside Dublin; the company is Ireland's oldest and leading full-service landscape contractors, founded back in 1963.

"All the feedback from our operators has been very positive," he says. "The buckets are very durable, very sturdy."

The landscape company invested in two buckets for a specific project linked to the construction of the €140m National Forensic Mental Health Service Hospital

at Portrane in County Dublin – a Gyrustar 3-60E fitted to a 3 tonne JCB excavator, and a 3-100H for an 8 tonne JCB.

"In keeping with our brief, we used the buckets to screen down stones on the site to 10mm," says Martin. "They have performed exactly as we expected, and we are now putting them to use on other projects."

After Sales Service

As a supplier of a wide range of equipment, including Gyrustar screening buckets, Plant Services Ireland has a very diverse customer base, from quarrying companies to local farmers, and adds Brendan Commins: "We pride ourselves on providing a top class after sales back-up service; we appreciate that it is imperative for our customers to have reliable support to avoid any unnecessary downtime which is why, with fully equipped vans on the road, we operate a 24/7 call out service."

"We also carry a full range of parts and spares enabling us to get our customers back up and running again with the minimum of delay."

THE GYRUSTAR RANGE

The E range is smallest screening bucket suitable for excavators ranging from 1-5 ton, perfect for work areas where space is limited.

The HE range of buckets are designed for heavier excavators – four to 13 tonne - but, has the option for loader conversion; these buckets have increased size and capacity due to increase in rotor quantity and length in comparison to the E range.

The HDX models for seven to 30 tonne excavators, are made from a more resistant type of steel and have additional wear plates. The models have a unique design allowing for loader conversion; special hangers allow the loader interface to attach straight onto the bucket.

The L range, for one to five tonne compact mini loaders and tractors, have 2 or 3 rotors; the specialist shell designs allow dedicated Kustom Konnect interfaces to be added for easy carrier connection; this can be fixed, adjustable or interchangeable to suit your carrier needs. The SL range is the dedicated skid steer range. All SL models are three rotor, varying in width from 1000mm- 1500mm.

The MAX range, known for the longer wider cutting edge and non-stick floor, are the largest capacity buckets available. The specialist design makes it easier to pick up longer smaller piles of material, perfect for padding and backfilling, where the max buckets can screen directly into the trench.



crushing and screening

Edge Innovate Release New Tracked Radial Stockpiler

A global leader in the design and distribution of a range of equipment used in the quarrying, port handling and recycling industries, EDGE Innovate has revealed their latest portable material handling offering with the launch of the TSR80. The

new mobile conveyor will take its place in EDGE's ever-growing material handling product line up.

The EDGE TSR80 is an 80ft long tracked mounted conveyor with radial stockpiling functionality. Essentially, the TSR80 has packaged all the advantages of

a mobile radial stacker and that of a tracked mounted stockpiler into one product. The TSR80 has the ability to self-propel across even the roughest terrains and the capacity to create massive radial stockpiles. It is the perfect stockpiling solution for operators who frequently reposition their

processing plant or want a conveyor to fulfil a number of different roles on-site.

The TSR80 offers operators a host of design features such as a high torque belt drive, 1200mm (48") wide conveyor, hydraulic variable feed in height, adjustable operating angle, radial stockpiling functionality and quick transition from transport to operational mode. With a maximum discharge height of 11.8m (38'10") and 360° radial capability, the EDGE TSR80 can create stockpile volumes up to 34,237m³ (40,947yd³). In addition, the TSR80 has an optional automatic stockpiling programme which combines automatic radial drive functions and self-angle adjustment enabling the TSR80 to create huge radial stockpiles with minimal supervision and prevents material segregation.

The core design principal for the TSR80 has been to provide customers with a conveyor that could create large radial stockpiles and can easily be transported both locally and around site with minimal fuss or cost. The TSR80 has been designed to fold down with its own power source and to drive onto a range of low bays and low loaders.



Evoquip Bison 160 Hybrid Impresses Irish Customers

The versatile and fuel efficient Evoquip Bison 160 hybrid hook-lift jaw crusher is impressing customers in Ireland, and with good reason.

Ideally suited to hard rock as well as construction and demolition recycling applications, the Bison 160 utilises hybrid diesel-electric drive technology to reduce running costs in addition to cutting noise and fuel emissions, making it an ideal machine for working in urban areas.

The dual-powered Bison 160 is equipped with a proven 700mm x 500mm (28" x 20") single toggle hydraulically adjustable jaw crusher. The innovative electric drive allows customers to reverse the crusher to clear a blockage or run in reverse for asphalt recycling, ensuring better all-round efficiency. The optional deflector plate is fitted on the moving jaw providing belt protection by allowing uncrushable objects to pass through the crushing chamber and onto the discharge belt.

David McElrea of SI Energy recently completed a demo with the Bison 160 in Ireland. Speaking about the Bison 160 David said, "The machine runs really quietly. I had to recheck the fuel usage and was shocked at only 21 litres of fuel being used. I was impressed at the reverse jog function to clear a blockage after having resigned myself to having to 'dig out' the rock."

David went on to explain how as a contractor that has previously used a tracked crusher and in comparison the Bison 160 provided significant time saving in loading and unloading. David added, "Transporting this machine and the quick start up time are real benefits."

Matt Dickson, Evoquip Product Line Director, said, "We listened to customer requirements and are delighted to see that the Bison 160 is now in the field and meeting these needs."

Key to the design of the Evoquip Bison 160 is that it is small enough to fit



easily inside a standard 40ft high cube container yet is formidable enough to withstand challenging applications.

The Bison 160 has now gone on demo in the UK with Evoquip distributor Blue.

Minister visits Re-Gen Waste Recycling Facility in Newry

Agriculture, Environment and Rural Affairs Minister Edwin Poots, has heard first-hand how adopting Re-Gen Waste's co-mingling recycling services model across all councils in Northern Ireland, could help them save money and meet a 65% recycling target by 2035.

Minister Poots and Re-Gen also discussed how the state-of-the-art facility focuses on landfill diversion and processing recyclables so that local companies such as egg carton maker Huhtamaki, can repurpose the materials to help achieve a circular economy.

The visit provided an opportunity for the Minister to take a tour of the plant which has undergone a £9 million investment in the last four years, to become one of Europe's leading waste management companies and one of the first MRF's in the UK to create the technology capable of accepting glass in blue bin waste collections.

According to Managing Director Joseph Doherty, their key objective is to "transform waste, whether it is domestic or commercial, into a sustainable solution," and in the process, protect the planet.

He said: "It was a pleasure to have the Minister visit Re-Gen



Joseph Doherty and Minister Poots.

Waste as we are really proud of this facility and how it's transforming the way the general public sees 'waste'.

"There's recycling and then there's revolutionary recycling and we want to demonstrate that revolutionary recycling is what the world needs. There was a good debate around the recent 'Future Recycling and Separate Collection of Waste of a Household Nature in Northern Ireland' consultation and how we can meet a recycling target of 65%.

"Local councils are zoning in on the cost of their waste and recycling service, which can account for up to half their annual budget. They are finding that residents prefer household friendly co-mingling schemes as opposed to pre-sort schemes and that working with advanced MRF's like Re-Gen, can lift dry recycling performance and improve their recycling rates."

"Today's sorting technology is developing at such a fast pace, it is unrecognisable from a few years ago. At Re-Gen, we are

capable of producing high quality materials that would have been unachievable three years ago. We are investing heavily in new technology and are actually developing the processing equipment of the future.

"We care about getting it right and at the heart of our business is a commitment to genuinely make things better – to create a cleaner future and in doing so, reduce the amount of waste sent to landfill each year", he said.

Environment Minister Edwin Poots MLA said: "It was great to visit Re-Gen Waste today to see their facility and discuss the issues that are facing the waste sector. Re-Gen have been vital to keeping our waste moving during the Covid crisis and I also recognise the level of employment they have brought to the local area."

Re-Gen employs 250 staff across a wide range of disciplines and operations include Waste to Energy (WtE), Mixed Dry Recycling (MDR) processing, Municipal Solid Waste (MSW) processing and engineering.

The company operates its purpose-built installation 24 hours a day and currently processes up to 300,000 tonnes of household waste annually, including 150,000 tonnes of Mixed Solid Waste. Ninety-five per cent of which is converted to Refuse Derived Fuel and Solid Recovered Fuel, via their waste to energy operation, which is exported on to Europe.

McCloskey to enhance offerings in recycling with introduction of first shredder

McCloskey International have expanded their mobile solutions with a new product range - shredders. The new McCloskey VTS95 is the first product to makes its debut for the new Recycling Division.

Designed for maximum performance and high productivity, the VTS95 tracked primary shredder is capable of effectively shredding virtually any type of material from solid waste, industrial and commercial waste to bulk waste. The VTS95 is designed to meet the requirements for plants in which the incoming materials vary greatly in terms of size, composition, and difficulty to shred.

The interaction between the rotating knives on the dual shafts runs asynchronously in both directions, ensuring the input material is constantly moving to prevent bridging and maximizing shredding efficiency.

As with all McCloskey products, these machines have been designed with the machine operator in mind. In addition to the



highest level of quality and performance, significant benefits include set up time, ease of operation and minimal maintenance.

Fergal Mallon, McCloskey Recycling Product Line Manager, said: "We have a busy year of new product development ahead of us to compile a range of equipment in order

to meet our customer's needs. This first addition follows a stringent and strenuous development cycle, which has seen the Shredder tested and prove itself in diverse product applications across the globe.

"We have teamed up with Metso Waste in Denmark, who are experts in static shredding applications, and have a range of tried and tested cutting table solutions, and we intend on using these cutting tables in our new equipment. They are experts in static recycling equipment, and we are experts in mobile equipment, and so we see this as an exciting partnership for both companies. It further enhances the McCloskey product portfolio and will help us to grow in existing markets and enter new ones."

The McCloskey engineering team has extensive experience in the design, manufacture, operation and maintenance of products and as such ensure each is suited to the application and requirements of our customers.

LIEBHERR LEADING THE WAY IN FAST-GROWING SHIFT TO ASSISTANCE SYSTEMS

Liebherr is at the forefront of the fast-growing shift to assistance systems that make everyday tasks safer, convenient and more productive.

Just as the technology is used for voice assistant Apps at home, industrial automation programmes and intelligent driving aids, Liebherr installs assistance features in its construction and industrial material handling machines to safely move heavy loads to height, often on rough ground.

The T 46-7s, T 55-7s and T 60-9s telescopic handlers from the Telfs plant in Austria were introduced in 2019 specifically for industrial applications. They are prime examples of how assistance systems and safety initiatives make a contribution to machine performance.

Moving materials with a telehandler demands power and speed, particularly when several movements of the operating hydraulics are being executed simultaneously. As the speed of the operating hydraulics is linked to engine

speed, the driver has to press down the accelerator pedal while reducing the speed of the drive using the inch-brake pedal.

However, with Auto Power – activated via a toggle switch in the cabin – Liebherr models automatically adjust engine speed to the total power requirement when the operating hydraulics joystick is deflected. The system takes driving speed into account so that it remains constant and the accelerator pedal is reserved for operating the drive.

Fine Control

Certain applications in industrial materials handling require a light touch and one example is when loading high racking shelves using forks. To precisely set up a Liebherr telehandler for such applications, Fine Control is used with the operating hydraulics, again activated via a toggle switch. It reduces the speed of the operating hydraulics by 50 per cent, meaning the operator can call on all the

machine's reserves for speed and power or fine control for more exacting manoeuvres.

Programmable

For frequently recurring movements such as skip loading, the operator can save any specific tipping angle and return to it simply by pushing a button on the joystick. The ideal angle of the loading bucket is always achieved without constant readjustment, meaning smoother loading cycles and an operator who is less tired.

Load Moment Plus

Customers who frequently handle heavy loads with the telescopic boom extended and thus need more stability, often opt for Load Moment Plus, particularly on the T 46-7s which have a load capacity of 4.6 tonnes and seven metres lifting height. Although this does not change the maximum load when the telescope is retracted, the machine provides a full 25 per cent of load capacity when the boom is fully

recycling & waste management



Here, the overload warning device continuously measures current load situation and indicates output via an LED display in the cab. The device is constantly in standby mode and ready to intervene if the normal situation (green display) changes. The speed of the hydraulics is reduced in the yellow zone to increase dynamic stability and if the red zone is reached, only those movements that return the load into the safe zone, i.e. closer to the base machine, can be made.

The function can be temporarily deactivated to use full power when digging at the edge of trenches or for the last few centimetres when placing a pallet.

Eco Motion

Eco Motion is an additional option for smaller Liebherr handlers – those with a payload up to 4.1 tonnes – that enables the boom to be lowered load-free. The system is already familiar to users of Liebherr's mobile and crawler excavators and uses gravity to return part of the hydraulic fluid in the cylinders. It's a preferred option for customers who carry out large numbers of loading cycles.

Comfort Drive

This feature can be regarded as a transition as technically, the option is on the telescopic boom but the results take effect when driving. The boom is compensated by an automatic hydraulic counter-movement under uneven driving conditions. The option is activated automatically from 7 kph, but a toggle switch can be used for slower movements. Anti-vibration damping prevents rocking and is recommended for machines that will often be driven at speeds above 30 kph.

Sit in, drive off

Hydrostatic drive has been a feature of Liebherr's construction machines for more than 50 years and allows

operation to start immediately without disengaging the clutch, changing gears or braking. So that machines can always be manoeuvred safely on any terrain, there are various comfort functions: differential lock, disengage all-wheel drive (less wear and tear) and electronic selection of the four different steering modes.

Auto Hill Assist

This feature acts as a drive-off aid to improve safety on steep slopes, especially useful when taking loads off-road or towing a trailer. On inclines, the driver has only to take his foot off the accelerator pedal for the machine to stop and the automatic parking brake to activate. It releases again as soon as the vehicle restarts.

The parking brake is always electronically controlled via a switch in the cabin - there is no handbrake lever, like other manufacturers' machines.

Manual Control Package

On the right-hand cabin console are two mini joysticks that control driving and operating hydraulics. They allow vehicle and engine speed to be set, as well as the appropriate litre capacity of the hydraulics, for setting continuous operation of, say, a sweeper attachment or concrete mixing bucket.

**LIEBHERR INSTALLS
ASSISTANCE
FEATURES IN ITS
CONSTRUCTION
AND INDUSTRIAL
MATERIAL HANDLING
MACHINES TO
SAFELY MOVE
HEAVY LOADS TO
HEIGHT, OFTEN ON
ROUGH GROUND**

extended. Result? Power is used to the maximum when in the maximum position.

Inner and outer values

In industrial applications the telescopic boom is in constant motion under heavy load and inside, all service lines and hoses are routed together in one load carrier and bound to each other, free from chafing.

To absorb shocks and impacts, when loading hard, recycled materials for example, and to prevent premature component fatigue, the boom cylinders are fitted with end position dampening. And despite a soft approach that just "kisses" the end position, a vibration function gives assistance to allow the bucket to be emptied safely, even with binding material.

Overload Warning Device

If electronic stability control intervenes in your car, you probably won't notice it. But it's different in a Liebherr telehandler.

Doosan Adds New DX230WMH-5 to Material Handler Range

Doosan has expanded the company's Material Handler range with the launch of the new 23 tonne DX230WMH-5 model, which joins the recently introduced DX250WMH-5 25 tonne machine. Both models are aimed at material handling duties in the solid waste, recycling, demolition and forestry industries.

Like the existing larger model, the DX230WMH-5 has two arm cylinders for extra balance and more stability and lesser movement when using attachments such as grapples. The maximum pin height in the DX230WMH-5 is 11.7 m, the maximum operating reach is 10.1 m and the maximum working depth is 4.2 m.

Another special feature which is standard on the DX230WMH-5 is the elevating cab, which provides excellent visibility and high flexibility for the operator. Easily accessed from ground level, the cab height can be adjusted to a maximum elevated height of 2.5 m to give the operator the best view of the work in hand, especially when combined with the rear view camera display in the cab. The operator can adjust the cab height from their position inside the cab, with an emergency lowering lever installed at the rear of the seat.

In the cab, a standard 7-inch colour LCD display provides helpful maintenance history and machine monitoring information. It also displays a video feed from the

standard rear-view and side view cameras, which are uniquely placed to give even better visibility. A split screen mode displays a camera view and vital machine information at the same time. The feed from the side view camera can be reviewed independently or in a split screen mode.

Designed to carry out the toughest tasks, the DX230WMH-5 is built with front and rear stabilizers, and a boom and arm specifically designed for material handling tasks. The DX230WMH-5 material handler is easy to operate with ergonomic joysticks and a steering wheel. The machine comes equipped with two-way auxiliary and rotate circuit hydraulics to improve efficiency. The operator can use buttons on the joysticks or an optional foot pedal to control auxiliary attachments.

The new DX230WMH-5 material handler is powered by the 6-cylinder, turbocharged Doosan DL06PA water-cooled diesel engine, providing an output (SAE J1995) of 129.4 kW (173.5 HP). The DL06PA engine offers convenience and lower costs by meeting Stage IV emission regulations without the need for a diesel particulate filter, through the use of cooled exhaust gas recirculation and selective catalyst reduction after-treatment technologies.

Power Modes

A special Doosan-developed system, Smart Power Control (SPC), improves machine

efficiency while maintaining productivity through variable speed control and pump torque control, automatically adjusting RPMs according to the load being handled.

With the gooseneck arm, the SPC can be used with all four work modes available on the Doosan DX230WMH-5 material handler. These power modes help the operator to manage the balance of fuel consumption and machine power to the working conditions. The four selectable power modes include:

- Power+ (P+) mode: delivers the fastest work group speeds and greater power for those high demanding material moving applications
- Power (P) mode: provides exceptional power and superior performance for tough heavy lifting, quick truck loading and fast travel speed
- Standard (S) power mode: enhances the machine's fuel consumption while delivering high performance in everyday lifting and moving of materials
- Economy (E) mode: helps reduce fuel consumption for low-demand applications and slows down machine movement for conditions that require more precise movements.

In addition to the four power modes, the DX230WMH-5 includes a lifting work mode, which provides increased pump torque, low engine RPM and an automatic power boost.

Terex Ecotec Expand Shredder Range

Terex Ecotec is expanding its shredding range with the introduction of the TSS 390, a robust and versatile single shaft, slow speed shredder.

Powered by a fuel efficient 493HP Scania DC13 engine, it is designed for maximum output and minimum down time. Ideal for volume reduction, the TSS 390 can handle the toughest of materials, is simple to operate and offers excellent all-round serviceability.

Tony Devlin, Business Line Director for Terex Ecotec said, "We are committed to delivering innovative, high quality products and the addition of the TSS 390 will further enhance an already significant range of shredding products. The TSS 390 has been rigorously tested and proven in a diverse range of applications and will open up new opportunities in the market. It will be manufactured in our new state-of-the-art manufacturing facility in Derry which will support the ongoing growth and development of Terex Ecotec's ever expanding product portfolio."



The TSS 390's 3m long shredding shaft was expertly designed in-house and is made from heavy-duty steel with easily replaceable, bolt-on shredding teeth. Being hydrostatically driven, it offers the benefit of full speed, full torque reverse and provides protection against contaminants. This combined with customisable shredding programs enable the operator to configure the machine to their specific requirements and offers improved shaft cleaning in difficult applications, reducing wrappage and optimising throughput.

Shredding takes place against a hydraulically adjustable counter comb which allows the operator to easily tailor the product size to

suit their needs. This comb can be operated in either a fixed position, where product size is critical or in release mode when the comb can open rapidly to allow large contaminants to pass without the need to stop shredding.

Designed to provide operators with unrivalled levels of service access the shredding chamber has hydraulically operated doors on both sides allowing chamber maintenance to be carried out with ease. The TSS 390 offers quick set-up and will be ready to shred in a matter of minutes. All conveyors are modular in design allowing each one to be removed independently reducing maintenance downtime. A separate transfer conveyor

with a high specification belt ensures material is effectively removed from below the shredding chamber. Both the transfer and product conveyors benefit from a speed monitoring which adds additional protection against blockages.

The optional over-band magnet provides magnetic separation and is both height and angle adjustable via a remote control. The magnet can be configured to discharge from either side of the machine and lifts up and away from the product conveyor when not in use. The chamber camera and monitor screen are an optional extra, however it enables the operator to see exactly what is happening inside the chamber and helps refine the shredding programs to provide maximum throughput in even the most difficult applications.

Available in both tracked and wheeled variants the TSS 390 will come fitted as standard with the industry leading T-Link telematics solution. T-Link has been designed to improve productivity, efficiency and profitability for customers.

CK International Offers Integrated Recycling Solution For Cardboard Waste

Manual handling of cardboard in a retail environment is not only tough going but it is costly with little or no rebate. Finding the right recycling solution will save on manual labour and increase efficiency. CK International, one of the leading suppliers of waste compaction equipment in the UK, recently helped a leading Irish retailer with a custom-engineered solution to solve this problem.

The retailer was wrestling with large clothing boxes, manually cutting and flattening these and packing them into 1100L containers. These containers then needed to be taken away and tipped into a compactor. They were moving around 3 tonne per day. However, with expansion plans they needed to be able to handle 5 tonne minimum per day.

Not only was this inefficient but they were receiving little to no rebate for the material. The current set-up was time-consuming and not compatible with their growth plans. Their logistics firm approached CK International for a solution that supported their vision.

Solution

CK International are one of the market leaders in the design and manufacturer of recycling equipment, offering a large range of fully and semi-automatic balers and compactors.



Following consultations, the company came up with a custom engineered solution.

Conveyors played a big part in transporting material around the new set-up, so the design of these needed to consider fire exits and other obstructions. Supported by Conveyor Tek, CK International installed a 30m long flat feed conveyor, feeding onto an incline conveyors and then into an Avermann Channel Baler AVOS 1211.

The solution is now fully automatic and the material is transported on conveyors to the machine, situated outside the building. They are achieving minimum bale weights of 400kg per bale and have the capacity of up to 5T per hour throughput. This allows

for growth plans outlined at the start of the project. The solution meant that the customer could refine their de-packaging process and boxes could simply be placed on a conveyor in their original format (not cut up) and processed for compaction.

"When we approached CK International they provided us with an integrated solution that took into account all of the challenges we were facing. As a result, our customer has become much more efficient, ensuring operatives are focused on the packing and shipping of goods to the stores rather than manually handling the waste. Our customer can now focus on growth, knowing they have the capacity to handle it. We are delighted with the results of this project," commented the client representative.

Benefits

These fully automatic Channel Press Balers are ideal for the compaction of large recycling material, such as clothing boxes. They are continuously fed on a variety of systems such as conveyors (in this case), fork lifts or suction units.

Their small footprint ensures that they don't take up too much space in a warehouse. This Avermann Channel Press boasts state-of-the-art technology with solid design and quality.

Scrapping red diesel will add £1 per tonne to Council waste bills

Joseph Doherty, MD of Re-Gen Waste Ltd, one of Europe's most advanced materials recovery facilities that processes waste for Councils across the UK, says that Government plans to scrap the lower rate of fuel duty on red diesel from April 2022, will add an extra £200,000 per annum cost to his company's fuel bill.

The changes to the tax treatment of red diesel will generate a number of impacts to Re-Gen Waste, the most immediate being increased fuel costs of 237%, going from a red diesel duty rate of 11.14 pence per litre (ppl) to a white diesel duty rate of 57.95 ppl.

Joseph Doherty said: "As we transition to the new rules, these increased fuel costs will ultimately have to be passed to customers in the short term, doubling the cost per tonne of waste to £1. Fortunately, we are already making efforts to adopt cleaner, greener technologies within the plant, so that we can absorb these costs in the

longer term. However, this may take longer than two years to implement and the new technology may not be fully operational in that time frame.

"We can't argue with the motivation behind removing the entitlement to use red diesel; the desire to tackle climate change, ensure that businesses pay fairly for the harmful emissions they produce and incentivising them to improve their energy efficiency, is something every government must do."

Additionally, the increase of fuel duty on red diesel could raise an extra £2.4 billion in taxes annually, as well as aligning the government net-zero emissions by 2050.

The government has acknowledged that the changes to the tax treatment of red diesel will affect local Councils and has vowed to engage with them closely as part of the Red Diesel Consultation, which closes on 1st October 2020.

Spending pressures that arise will be discussed as part of the 'Comprehensive Spending

Review' that is scheduled later this year, along with the £150 million per annum resource spending envelope, to account for this cost increase within the public sector.

He added: "In the run up to 2022, businesses such as ours are totalling up the cost of what removing the entitlement to use red diesel, will actually look like.

"In some instances, red diesel users are saying that there are no commercially viable alternative fuels they can use and others say that the cost of using cleaner technologies is a barrier to switching to non-diesel powered vehicles and machinery.

"From Re-Gen's perspective, we are already committed to a "Cleaner Future" and plans are already in place to begin the incremental shift to using greener technology, including introducing two electric powered cranes this year, with a further two in 2021 and gas-powered fork-lifts and trucks.

"While we are reassured that we have two years to make the shift over to red diesel alternatives,

we would have been happier with a staged approach over a longer term, in order to transition to the new rules comfortably.

"Right now, we are looking into readily available, low carbon, alternative sources of energy such as using gas from anaerobic digestion plants. We are also exploring environmentally friendly, second generation biofuels, such as HVO (hydrogenated vegetable oil) which are compatible with existing diesel engines and equipment.

Ultimately in the short term, the industry is going to have to shoulder the burden of costs and put up with the pain in order to enjoy the long-term environmental gain.

If you would like to discuss how the Red Diesel Consultation (<https://www.gov.uk/government/consultations/consultation-on-reforms-to-the-tax-treatment-of-red-diesel-and-other-rebated-fuels>) might affect your bottom line, please contact Re-Gen's Head of Commercial Development, JayMoosaye@regenwaste.com

WEST DOVE MAKES AN IMPACT WITH BLACK & WHITE MULTI UTILITY LOADER RANGE

West Dove is beginning to make an impact in the local market with its range of Black & White multi utility loaders after taking on the dealership earlier this year.

The County Down company headed up by Dessie Middleton is now stocking up with the full range of Black & White models as businesses get back to a new normal following the Covid-19 lockdown.

Comments Dessie: "We took on the Black & White dealership for Northern Ireland just before the pandemic struck in March, so it wasn't the best of timing, but I'm excited about the potential for the brand here."

He adds: "The utility loaders have been selling well in England and we have delivered some as far away as Norway, so we expect a good response from customers in Northern Ireland."

The first sale in Ireland of a BW20T was to Hilltown farmer Chris Brown who is more



than happy with its performance. "The Black & White is a perfect fit for our farm work. It's a great machine at a price that is much less than what a similar quality brand would sell for. It has everything we need in a loader.

"All round visibility from the comfortable cab is excellent; you don't have to stretch to see what's in front or behind you. It's a compact and versatile machine which we use in a number of applications around the farm – from lifting bales and silage to cleaning outhouses."

Chris adds: "The Black & White replaces a tractor fitted with a front end

loader and quite frankly I don't know how we ever did without it; it's the best tool for around the farm we have ever invested in."

All models in the Black & White utility range are powered by Yanmar or Cummins engines and comes with a host of standard features such as air conditioning, adjustable steering, LED lights, reversing camera, radio, bucket, hydraulic quick hitch, tool box and tilting cab for easy maintenance.

West Dove also offer a good aftersales support package and says Dessie: "We'd be happy to demonstrate the machines to potential customers at a time that suits them."

Used Machinery

West Dove have been supplying the industry for many years with top quality equipment and always carry a good stock of top branded diggers, excavators, bulldozers and more, including buckets and rock breakers.

"We offer quality used equipment at great prices," says Dessie, who has a wealth of experience in the construction and agricultural sectors. "And if you are looking to sell your used plant machinery, we can help there as well. We have constant requirements





**WE'D BE HAPPY
TO DEMONSTRATE
THE MACHINES
TO POTENTIAL
CUSTOMERS
AT A TIME THAT
SUITS THEM**



for good quality used machinery and offer top prices for the right equipment."

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.

"We have a wide-ranging knowledge of the industry and can advise on the quality and advantages of different brands and machines. We offer value for money and all our plant and machinery is very competitively priced to ensure customer satisfaction."



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'THE SCHOOL' OPENS AS LEICA GEOSYSTEMS INVESTS IN INDUSTRY TRAINING

After taking over the old Hawk Plant Hire offices near Whitchurch in Shropshire, Leica Geosystems has been busy creating The School, a specialist 'Connected Site' training facility for the construction industry, as Peter Haddock reports.

The School has its own very large sandpit, outdoor dig zone, surveying area with hidden hazards and classroom facilities. These are all aimed at support teams or individuals, so they can learn about how to use Leica's full range of surveying and machine control technologies, in a safe interactive environment.

It's so safe that even the participants in the practical surveying area, next to the dig zone, can wear the latest Leica personal alert device, which links directly to the screen in the machine-controlled excavator.

The site also doubles up as offices for members of the Leica Geosystems site and remote support team, under the watchful eye of Heavy Construction Business Director, Neil Williams, whose vision has now become a reality.

I recently visited The School, where I caught up with Neil to see what going 'back to school' with Leica is all about.



Comments Neil: "When we had the opportunity to take on the site, we jumped at the chance, as for many years we had worked with Hawk Plant Hire, delivering training in partnership with its key tier one contractors.

Hands On

"This experience taught us was how important hands on training is to understand

how our equipment can support teams, helping them to move towards the digital delivery of projects. What The School aims to do, is allow individuals to try the latest equipment in a safe managed environment with our specialists or teachers, working with them to see how our equipment can be used to improve outcomes, productivity and efficiencies onsite."

After a quick safety talk and walk around the classrooms, I was able to sit in one of the simulators and try out Leica's brand new MC1 machine control solution, which now goes across all different types of plant.

If I was a trained operator, after this simulator-based awareness session, I could then go out into the dig zone and jump into the Hitachi ZX130 excavator, which has the same MC1 solution installed onto it. But in this case, I was able to watch Leica expert, Steve Claybrook use the system to complete the trenching task displayed on the in-cab touch screen.

To prove he had completed the task to the right grades, Steve was then able to show me how to use a Leica rover to check the depth of the trench at different intervals. To the side of the dig zone, I was introduced to the Leica iCON Total Station, which is now common on sites across the UK. This is a key tool used to support the digital worksite, as it allows surveyors to set out even the most complex site layouts and even comes with a touch screen tablet.

The total station was placed right next to Leica's new footpath, road and artificial grass area. At first sight, this seemed a bit unusual to have next to a dig zone, but as Steve pushed yet another device around the corner, all was revealed. This was the survey area, with some hidden underground surprises.

At the size and shape of a family lawnmower, the Leica DSX Utility Detection Solution Steve showed me, provides a surveyor with underground visibility. Its more commonly known as a ground penetrating radar, an essential tool when you are working on anything but a greenfield site. This is because a utility, electric, gas or water strike can be both dangerous and very costly for any groundworks project owner.





Mounted onto the Leica DSX was a Leica GPS/ GNSS receiver, which together with the now familiar Leica touch screen tablet, allows the user to identify and map underground utilities, with all data uploaded to its DXplore software. This information can then be used to map the earthworks project, creating a model on the new Leica MC1 software. With MC1 being compatible across all machine-controlled equipment from excavators to dozers and even drill rigs, this model can provide information for operatives across a site.

Sandpit Demos

Having learnt all about how to use the equipment, it was time to take a look at the big sandpit, which is the old Hawk Plant Hire training ground. This is a large site next to The School, which can be used to replicate a real-world earthworks project. This is where operators and surveyors who have been at The School learning all about the equipment, can take their digital models and create them using a range of equipment.

Adds Neil: "The sandpit really does add that all important site feel to The School. I think having this has created the perfect setup for all forms of digital learning and practical experimentation. Whether you are in the classroom, on the simulator, in the dig zone, surveying area, or sandpit you can now safely discover all the advantages of the connected worksite and learn the capabilities of our combined solutions."

I can certainly agree with Neil, as for me every day is a school day and if the industry is going to take full advantage of our digital revolution and use the very latest in solutions available, you have to teach people how to use them.



Hydrema completes machine range with new MX17 wheeled excavator

The expectations the Danish Construction equipment manufacturer Hydrema had for the MX series before launching the range at the giant Bauma exhibition in Munich several years ago have now been fully achieved.

The MX14, MX16 and MX18 wheeled Excavators will now be complemented by another model which completes the range. Hydrema is ready to launch the new MX17, which combines the speed of the MX16 with the strength and lifting capacity of the MX18.

"The MX17 has all the qualities of the MX16 and MX18. With its speed and agility, this new machine is designed for use in cities like the MX16 with very high lifting capacity and stability for its class," says R&D Manager Thorkil K. Iversen at Hydrema.

As such, there has been no shortage in the MX series. The three previous machines have fulfilled the intentions Hydrema set out when creating the MX range, namely, a series



of excavators with high lifting capacity, stability and efficiency, which are more compact than similar machines on the market.

"With the same driveline as the MX18, the MX17 has the tractive power of 111 kN and has 20 per cent greater break-out force when compared to the MX16. It perfectly matches the desire to create a powerful machine with high stability, while at the same time being compact and agile," says Thorkil K. Iversen.

The slightly higher weight of the MX17 over the MX16 helps to increase the vital stability over the side by as much as 18 per cent at the six meters. Over the dozer blade, the Hydrema MX17 has a lifting capacity of 7200 kg at a range of six meters. That's an 11 per cent increase over the MX16, and when compared to other compact excavators, the machine achieves close to 30 per cent higher lifting capacity.

Hydrema uses the same cab in all MX models including the

two popular rail machines: MX16 and MX 20 Rail. The new 2021-cabin has a brand new door design and an openable front windscreen. It is also possible to remove the lower front window panel to achieve optimal visibility, along with the opportunity to communicate with people in the excavation area.

"We have also introduced a brand new armrest design, where the operator has four individual adjustment options for each armrest. It is of great importance to achieve optimum ergonomics and to ensure that the individual operator can adjust to exactly his preferred working position. This is important because machine operators often spend the entire working day in the driver's seat. It is also possible to opt for an air-suspended seat with ventilation and automatic weight adjustment," emphasises R&D Manager Thorkil K. Iversen.

In addition to the essential details to ensure maximum safety and comfort, the operator - and the contractor - can also enjoy new, fresh grey interior colours in the 2021 cabs.

Auger Torque launch the VM Mulcher Series

Manufacturer and global provider of earthmoving attachments Auger Torque has added the VM1000 and VM1500 Variable Mulchers to their product portfolio.

The variable mulcher range provides the user with the versatility of being mounted on both a skid steer loader and excavator, whilst also providing a drum drop change feature whilst onsite. The drum drop option gives the user the choice of changing swiftly between fixed tungsten tooth and swinging hammer drum, bringing with it the capability of undertaking numerous applications on site with the one piece of equipment.

Auger Torque, known for its high-quality blue attachments, have called upon their years of experience and technical expertise in the attachment market, to bring the same reliability, performance, fast delivery and industry leading warranty, into this highly competitive market segment.

Suitable for mounting on both excavators and skid steer loaders, the Variable Mulcher provides a working width of up to 1.5m. Both the VM1000 & VM1500 have the unique feature of being able to change the drum on-site, adapting



quickly between parent machines for maximum versatility and flexibility on the job, without costly downtime.

The ability to attach a skid steer frame and excavator hitch at the same time, along with a removable pressure gauge & push bar allows for easy adaptation between parent machines when out on site. The fixed tungsten teeth drum gives a robust blunt cutting edge for grinding through thick timber up to 250mm diameter, hedges and branches. The swinging hammer teeth drum gives a cleaner, more precise cut for dense bushes, smaller trees and even slashing grass.

The VM Mulchers are made from high-grade steel and are overengineered to be able to cope with the toughest conditions in the mulching and forestry industries. External

grease points, removable side panels and skid plates allow for easy maintenance and a triple belt drive system will provide even the most demanding operator with the reliability they need to get the job done.

Unique to Auger Torque's VM Mulcher series and an industry first, is the ability to drop and change the drum out on site allowing for quick change over when there are various types of vegetation to clear, or simply if the operator is not sure what they will be met with out on site. Furthermore, it is possible to have the mulcher set up for skid

steer loaders and excavators simultaneously and clear dense low-level bushes with a skid steer, then mulch whole trees from top to ground level with an excavator.

Matt Hencher, Global Production Manager states "We are excited to be launching the VM Mulcher series today. It is one of our most impressive attachments to date, developed with the direct input of some of our longest standing customers at various sites around the world. Our aim is to always give customers the versatility and flexibility they need and this mulcher was designed with this in mind"

The VM Mulcher series is now available at all our sites around the world and via Auger Torque's specialist dealer network.

Click on the link to watch it in action
-<https://www.youtube.com/watch?v=PjMvihQNndU&feature=youtu.be>

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2015 Komatsu D61PX-24



2010 CAT 120M



**2015 Komatsu HM300
- choice**



2014 Volvo L110G



**18-19 JCB 3CX P21 ECO
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EURO AUCTIONS DUO 'WASHING PLANT' SALE ATTRACTS INTEREST FROM A GLOBAL MARKET DURING LIVE ONLINE SALE

The recent one-day sale of specialist washing and recycling plant, screeners, crushers, excavators, loaders and ancillary aggregate processing equipment, held on the 27th August at the DUO facility in 'Burton-upon-Trent', was a great success attracting a global audience, with a £4 million hammer total.

This exciting one-day sale was part of a 'stock refresh' ahead of the new and exciting expansion program DUO are planning at their new site in Coventry, where the very latest aggregate

processing, recycling machinery and ancillary plant equipment will be installed. Now, following the recent sale, the Burton-upon-Trent site will be decommissioned.

Up for sale was an inventory of major items from the Terex and Powerscreen washing and recycling range including: major components for wash plants, de-watering equipment, filter presses, filter tanks, sand plants, conveyors, screeners, and crushers in addition to a range of various commercials, plus general plant and machinery.

With Covid in mind, two 'viewing-days' were set up prior to the

sale, which were well attended by representatives from across the industry, such was the interest in this sale. Online bidding was always going to be the preferred route for prospective buyers, due to Covid, with interested bidders attending the viewing days, and bidding online during the actual sale.

In total, 669 bidders registered, with 613 bidders placing their bids online, which equated to 94% of all bidding activity. This sale attracted many new registrations who previously had never participated in a Euro Auctions sale, with 13%

of bids coming from new bidders. Of all successful buyers, 74% of purchasers were conducted online.

It was the international activity that was interesting, and considering the special nature of this sale, bidders from over 45 countries globally registered participate in the sale, across Europe, North Africa, the Middle East, Central Asia, Australia and South America.

As expected the top buying country was the UK, however, successful bids were received from, and in this order: UK, Republic of Ireland, the

ONLINE BIDDING WAS ALWAYS GOING TO BE THE PREFERRED ROUTE FOR PROSPECTIVE BUYERS, DUE TO COVID, WITH INTERESTED BIDDERS ATTENDING THE VIEWING DAYS, AND BIDDING ONLINE DURING THE ACTUAL SALE.

Netherlands, Poland, Italy, Malta, Germany, Belgium, Portugal and Hungary.

Live – Online

Euro Auctions uses a robust and bespoke online bidding platform, and by taking video and images of all lots ran a live 'online sale' which bidders could then view, allowing the global audience, as well as floor bidders on the day, to participate in the sale.

The scheduled auctioneers would normally travel from the USA to officiate at the sale. However, due to travel restrictions, on this occasion, they conducted the sale in real time, live and online, from the offices of Euro Auctions sister company, Yoder & Frey, who are based in Ohio.

David Betts, Sales Manager for Euro Auctions, comments on the success of the sale, "Throughout the Covid pandemic, Euro Auctions has never missed a sale, with a combination of operating behind closed doors, live on-line auctions, and timed sales. The DUO sale was no different. With the online capability we have, our bespoke bidding platform, hosting an online sale in real-time, is something that Euro Auctions excels at.



Our IT teams, in the UK and the USA, have linked technology, enabling auctions, such as the DUO sale to happen throughout the Covid pandemic. Prices were good and both buyers and the seller were happy with the outcome of the sale."

The hammer total for the sale was just over £4 million, with the inventory including a broad selection of components

for the Terex® and Powerscreen washing systems with notable items being: M1700 Tracked Triple Deck 3 Way Wash Plant, Powerscreen 2100 Tracked Twin Deck 2-Way Screener/Washer, and Terex Aggwash 60-2 Duel Sand c/w Feeder & Conveyors.

David Betts concludes, "Again, Euro Auctions has proven that it can operate in highly specialised sectors of

the market. We understand this sector, the equipment, and the buying audience, and have demonstrated we can attract a specialist international audience.

More importantly, this sale has also demonstrated that Euro Auctions is open for business, both 'on-site', at one of our permanent sales arenas, 'online' and like the DUO sale, 'off-site' at a client site."

Euro Auctions launches 'Daily Marketplace'

New from Euro Auctions, the Daily Marketplace is a 24/7 online directory accessed via a link on the website homepage at www.EuroAuctions.com and shows a range of equipment for sale daily, in real-time, with equipment for sale from around the globe.

Consignors can now make-ready equipment and machinery for sale without the need to wait for a scheduled Euro Auctions or Yoder & Frey sale.

Uploading a full description and an abundance of images and videos, each lot shows the estimated value and current bid price as well as the number of bidders in the sale. New to the website, the Daily Marketplace draws in equipment for consignors around the globe.

Buyers are also able to 'Ask a Question' about any item for sale as well as requesting a 'Transport Quote' prior to bidding.

For each lot to be sold, Euro Auctions will complete an inspection report, value equipment, publish the item on the 'Daily Marketplace', run a marketing campaign, hold the sale and pay the consignor once the buyer pays Euro Auctions.

This is a hassle-free process for the seller, giving unlimited access to the vast Euro Auctions database of global buyers, and all sales can be conducted in a timeline to suite the consignor.

Jonnie Keys, Euro Auctions Commercial Manager comments, "We hold over 60 live auctions each year, on four continents, in eight countries, with 'off-site' sales, all marketed to Euro Auctions large global presence and customer base. The Daily Marketplace is the next logical step allowing our buyers to find equipment on a daily basis, as well as helping our



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- Leeds, UK**

25th September - Yoder & Frey: Findlay, Ohio, USA

28th September - Dubai, UAE

30th September - Zaragoza, Spain

consignors to sell equipment between live auctions at a point in time to suit them."

Machinery owners interested in consigning equipment to the Daily Marketplace need only contact Euro Auctions by email at info@euroauctions.com or call the Global head office on +44 (0) 2882 898262. For more information, visit, www.euroauctions.com

BUYER INFLUX INCREASES DEMAND FOR USED EQUIPMENT

BY RUPERT CRAVEN OF RITCHIE BROS

With lockdown reducing the availability of equipment into the market and the Government injecting funds into major capital projects, we have seen a serious and record influx of buyers registering to bid on our platforms.

This is not just UK & Ireland focused, it's a global phenomenon that is impacting the whole of our business. There is no doubt this has also been down to the very rapid expansion of online bidders, through our recent auctions that have been able to use our proven 'timed auction lot' (TAL) system.

Unlike the traditional auction, TAL gives buyers added time to make the decision to bid as the auction moves on. This is because the management of the lots is digital and therefore not done by the traditional hammer and auctioneer onsite. In practical terms, this means that if someone bids last minute on a lot that is due to end, TAL extends the time available for other people to place a bid giving an extra time for this to be completed.

With TAL it's only when the final bid has been made and the extra time runs out, that the lot is sold. From customer feedback and statistics, we have from these timed auctions, we can see they are popular with both buyers and sellers. This is because buyers have the time to make that final



A selection of equipment sold at the Ritchie Bros auction in June 2020.

bid and sellers are in some cases seeing in-demand equipment reach higher values, as buyers increase bids for such lots.

What is also interesting in the UK and Ireland markets right now is the way in which people are looking at fleets. For example, we are now seeing more sellers looking at disposing of assets based on usage and value. So instead of just selling on the oldest and highest hours assets, they are looking for advice on what to dispose of to reach optimum values.

This was very evident at our recent and largest ever auction at our Maltby Site in June 2020. Here some sellers were choosing to sell newer equipment, as we were able to show them not only the demand levels for these assets, but also the values being achieved globally.

For Europe in particular, we are able to gauge the market well, as we have auctions in Germany, Holland, France, Spain and Italy at different times. Equally, with buyers now much more aware of online and how to look for equipment on sale, we are seeing changing behaviours on our auction website.

More Aware

Firstly, buyers are now much more aware of how to bid and buy with confidence online. They are also able to target equipment setting up bids online sometimes weeks in advance, as items are loaded up by our team on a regular basis before an auction. With factories not producing enough equipment at the moment, these buyers are also far more aware that newer used equipment can fill fleet gaps for particular projects.

They can also be used to bridge delays due to increasingly longer new equipment delivery times.

For example, buyers are now recognising they can purchase a newer piece of equipment for a specific job and then sell it on a few months or a year later, without losing much on the residual values.

This is all leading to a very healthy used equipment market, that is working well for both buyers and sellers. Of course, in demand heavy times, it's the sellers that can also realise the value of idle or underutilised assets, as cash is king.

A great example of this was our direct purchase of a Cat D6T dozer with full 3D machine control from Dunton Environmental. Instead of putting the machine into the auction, it sold directly to us at Ritchie Bros. They sent the machine to us on the Thursday and had the money in the bank on Friday. This led to the business buying a brand new, fuel efficient Cat 330 with full machine control on it, which is already working onsite.

So, whether you are a seller or a buyer, right now is a great time to tap into the online TAL auction, with the next one being held on 11th – 18th September, with bidding starting online from the Friday 11th September and items closing on the 17th & 18th September. Full information at www.rbauktion.co.uk



JCB FINANCE HELPING CONTRACTORS TO INVEST IN GROWTH

Blackburn based, Monks Contractors Ltd recently took delivery of a new JCB JS20MH wheeled material handler and 30 new BMI ejector and walking floor trailers which have been purchased using a Hire Purchase facility – backed by the Coronavirus Business Interruption Loan Scheme through JCB Finance Ltd.

This purchase is part of a large investment made by Monks to support a newly awarded contracts within the waste sector including Lancashire Renewables and comments Monks Contractors Managing Director, Chris Monk: "This is a significant investment in our fleet. However, to provide the exemplary service levels that our customers have come to expect from us we must keep a renewed fleet and offer the best that is available."

Like many businesses the COVID-19 outbreak brought disruption to Monks Contractors, whilst the waste sector remained busy the plant hire side of the business did see a reduction in utilisation resulting in reduced revenue for the firm.

The CBILS-backed Hire Purchase from JCB Finance is a 53-month term facility with 6 months no capital payments and the first 12 months interest paid by the Government. Following their

recent accreditation by the British Business Bank, JCB Finance has been promoting the offer to help business impacted by COVID-19 continue to invest.

"The pandemic and lockdown made everyone feel uneasy, some form of disruption was inevitable, but we must look forward. It is essential we continue to invest and maintain our fleet to deliver the best possible service to our customers and the CBILS-backed Hire Purchase with JCB Finance has helped us to do this. I have used JCB Finance for years and have a great relationship with them, they offer a good combination of personal service and easy uncomplicated online services that help save me time."

Monk Contractors was established in 1993 by Chris and his wife Louise, starting as an agricultural contracting the firm they now have an extensive range of plant, materials handling and commercial vehicles and is today one of the leading suppliers to the waste haulage sector.

Support and Loyalty

Meanwhile, another company to benefit from JCB Finance is Arnold Plant Hire. They have been hiring plant and machinery to the construction industry and general industry including, foundries, recycling, manufacturing for 30 years.

When the nation began to lockdown, the firm needed to furlough most of the team with the initial outlook uncertain.

Thankfully, with customers spread over many sectors, including essential services like recycling, the majority of their 350 strong hire fleet remained on hire with only temporary disruption. The company has been able to remain loyal, flexible and supportive to its customers during this period.

Arnold Plant Hire, a long-standing customer of JCB Finance, accepted an emergency payment pause offered by the lender as part of a swift COVID response.

Arnold Plant Hire Finance Director, David Hardman said: "JCB Finance were quick to offer support and gave us relief when we needed it. Help when you need it - is something you can rely on from JCB Finance."

The Arnold Plant Hire business model is based around cyclical renewal of their fleet, to offer customers machines with the latest engineering advancements in efficiency, safety and reliability. Now, as the country begins to bounce back, JCB Finance has helped the firm to secure a Hire Purchase facility backed by the Coronavirus Business Interruption Loan Scheme used to purchase 4 new JCB 437HT wheeled loading shovels from Gunn JCB Ltd that

will be placed on immediate hire due to customer demand.

Applying Made Easy

David Hardman said: "The Coronavirus Business Interruption Loan Scheme is a crucial initiative to give businesses, like ours, the confidence to continue investing. To simply keep going isn't enough – investment is a must if the economy is to grow and improve productivity. Applying for the CBILS loan through JCB Finance was easy, they understand our business and provide us with an excellent service."

JCB Finance is consulting with customers and other UK businesses within construction, agriculture and industry who have been impacted by COVID-19 to see how they may benefit from the scheme. Applications must be accepted by 30th September 2020 to secure a facility and have up to six months to draw down following acceptance.

JCB Finance are consulting with customers and other UK businesses within the waste sector who have been impacted by COVID-19 to see how they may benefit from the scheme.

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CLOSE BROTHERS APPOINTS NEW SALES DIRECTOR IN NORTHERN IRELAND

Close Brothers Commercial Finance, part of Close Brothers Group plc, has appointed Frank Coffey as Sales Director in Northern Ireland.

Frank Coffey has joined the Belfast office as Sales Director for County Antrim. His new role will focus on business development, as Close Brothers Commercial Finance aims to grow their B2B customer base in the area.

Frank has over 22 years of experience in finance. He started his career at Bank of Ireland and most recently held the position of Relationship Director at Lombard North Central, based in Belfast.

Speaking about joining, he said: "I am delighted to join Close Brothers. The banking group's reputation for excellent customer service precedes them, and I look forward to supporting businesses in County Antrim and surrounding areas.

"The role presents a great opportunity to contribute to the local economy, drive commercial objectives forward and ensure customers have the best experience possible. I hope to demonstrate my enthusiasm, talking directly to business owners to help them find innovative and bespoke funding solutions."



Frank Coffey, Close Brothers Group plc, Sales Director in Northern Ireland.

Highly Experienced

Emma Blair, Regional Sales Director, commented on the appointment: "At Close Brothers, we are committed to a people-centred approach which allows us to work closely with businesses and tailor supportive solutions.

"Frank is a highly experienced and well-respected professional. His appointment to Sales Director further strengthens

our Northern Ireland sales force, enabling us to continue offering funding expertise and exceptional service.

"Having lived in Northern Ireland for many years, Frank has both the local knowledge and skill to develop strong relationships with all kinds of businesses in the area. I look forward to working with him to help SMEs."

About Us

Close Brothers is a merchant banking group in the UK and Ireland providing 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.

Our core purpose is to help the people and businesses of Ireland and Britain succeed over the long term. To achieve this, all of our diverse, specialist businesses have a deep industry knowledge, so they can understand the challenges and opportunities that our customers and clients face. We support the unique needs of our customers and clients.

Visit the Close Brothers Commercial Finance website to find out more about the sustainable finance packages they offer: <https://www.closecommercialfinance.ie/> or call 028 9099 6935





ACTIVELY, PRACTICALLY, WE'LL HELP YOU THRIVE AGAIN

These last few months have affected
us all in many different ways.
But we're here to reignite your plans – with
expert advice and support, to help you
look forward again with confidence.



Close Brothers
Commercial Finance

CAT FINANCE DEALS HELP FIRMS GET BACK ON TRACK

Cat Financial has introduced a bundle of finance deals to help construction firms get their businesses back on track as the sector starts to get back to its new normal. Customers of Finning UK & Ireland, exclusive distributor of Cat machines, can take advantage of the handpicked financing deals including buy now, pay later, and zero per cent finance. Here Chris Watts, Sales & Marketing Manager at Cat Financial UK & Ireland, explains the packages it has introduced to help firms during this challenging time.

According to The Guardian, the lockdown caused the worst economic slump on record for the UK construction industry. The monthly IHS Markit/Cips reported a fall in construction activity from 39.3 in March to 8.2 in April, the lowest since the figures were first collected in April 1997. Construction companies are facing many challenges as a result, including limited cashflow and postponed projects.

To have any chance of pulling out of a recession quickly, it's vital that construction firms get back on site and fully operational as quickly as possible. The months of inactivity has significantly damaged many companies' cashflow, to the point where there's little or nothing left in the reserves for purchasing new or used machines. Financial help is therefore vital to help construction firms get back up and running quickly.

Cat Financial and Finning UK and Ireland, have unveiled a range

of financial packages that are available on a select number of new and used machines.

The first deal that Cat Financial has put on the table is zero per cent financing on any new Cat 313FL GG hydraulic excavator. The 313FL GC is a powerful and reliable machine that has a low-cost-per-hour so is very economical to run. This machine also offers an unrivalled 45 per cent increase in operational efficiency over competitor machines so is a sensible and savvy purchase at this time. This deal is available for 36 months and applies to any new machine delivered up to 31st December 2020, meaning customers can take advantage of state of the art machinery now, without having to find the large upfront cost, and without it costing more in the long term.

The second deal is on the Cat 320 GC Next Generation excavator. The Cat 320 GC really raises the bar for efficiency and fuel economy in this size class. Using the latest inbuilt machine technology, this excavator offers a high production output and promises to

increase on site efficiency, so works are completed quicker. The addition of no interest and zero per cent financing is applicable for machines delivered by 31st December 2020.

The third deal has been introduced to help those really struggling with short term cash flow as a direct result of downtime and site closures during lockdown. Cat Financial is offering a "Buy Now Pay Later" deal with a 51-month fixed rate plan. This deal is available on any new Cat machine in any class for orders placed before 31st December 2020. The added bonus here is that there's nothing to pay for the first three months, giving firms the chance to get back to business without having to dig too deep into the overdraft facility. After the first three months customers will be required to make 48 monthly payments with a ten per cent deposit, full VAT and a £175.00 administration charge being payable in month four.

For all three options, UK customers can contact Cat Financial Services (UK), while Irish customers can benefit from the same programme by requesting Caterpillar Financial Services (Ireland) p.l.c. c/o Finning (Ireland). Cat Finance is also offering zero per cent on all parts and servicing purchased.

The lockdown hit the construction industry hard so its essential we support contractors around the country to help them get back up and running, on site and earning again which will help to boost, not just the construction industry, but the wider economy too.



Dalradian Outlines Skills Development Programme To Support Local Hiring

Dalradian, which has spent £130m over the past decade on works and studies to support its planning application for an environmentally responsible, underground gold-silver-copper mine in west Tyrone, has announced details of its future plans for a three-year, £15m skills development package.

The mine will directly employ around 350 people when operational and create around 1,000 jobs in total when indirect and induced jobs are included. Based on the experience of other mines, Dalradian anticipates that it will recruit at least 90% of its employees from the local area.

The initial £15m programme will coincide with the mine's two-year construction and its first full year of underground operations. Further training will then be provided on an ongoing basis to maintain and develop additional skills.

Given the high-tech nature of modern mining, Dalradian plans to make extensive use of virtual reality tools and simulators. The technology is similar to that used to train aircraft pilots and has already been demonstrated at Omagh-based South West College. The company will also provide hands-on experience with mining equipment adapted for training purposes.

The programme will be supported by an international mining school with a track record in delivering training and by accessing training support from South West College.

Patrick FN Anderson, Dalradian's President and CEO, said: "Tyrone has impressively strong and globally recognised manufacturing, quarrying, engineering and construction sectors which draw upon the same skills of ingenuity and practical problem solving practised in mining. Based on a decade of doing business in Northern Ireland I'm very confident that at least 90% of Dalradian's 350 full-time employees will be recruited locally.

"We are seeking to fill a wide range of jobs, both above and under the ground, from office support through to mechanics, electricians plus those who want to become highly



skilled miners. It doesn't matter if you're male or female, young or old, we will need a good mix of those just starting their careers and those with plenty of life experience.

"Covid-19 has created a very uncertain economic climate, but as the lockdown eases attention is turning to how to support economic recovery. This will be one of the largest private sector investments in training west of the Bann.

"Mining jobs are highly technical, which is why our average salary will be twice the Northern Ireland average. Should the mine receive planning permission we will begin recruiting and training staff during the mine's two-year construction phase. This could be as early as the second half of 2021."

Managed Transition

Initial training and mining operations will be provided by overseas mining specialists, but the skills development package will provide a managed transition to a predominantly local workforce.

Dalradian intend to develop the training in-house and may deliver it in conjunction with the local college. Training will occur in three stages starting with health and safety before progressing to job specific roles using virtual reality, simulators, training equipment and, finally, supervised on-the-job training.

Examples of mining roles to be recruited and developed locally include operators

of specialist underground equipment such as ground support bolters, haul trucks, 'jumbos' which are used for drilling and 'scooptrams' to transport loose rock. Other positions will include millwrights, blasters, electricians and welders, plus support roles including HR, administration and IT. Commented Peter McKenna, Dalradian's Community Relations Manager: "As we've already received 3,000 expressions of interest in working with Dalradian, it's clear that the appeal of a career in modern mining is strong. This is particularly true in Tyrone where the skills of our farming community and successful engineering base are so readily transferable."

Major Opportunity

He added: "This is a major economic opportunity for all of Northern Ireland. We will create around 1,000 direct and indirect jobs during the mine's 20-25 year life and an entirely new, environmentally responsible industry. On top of that, the two-year construction period will deliver a £130m investment and create 300 construction jobs.

"Other Irish mines such as Lisheen and Tara have led to spin-out firms in training and logistical support, and we're looking to partner with Tyrone's world-class materials manufacturing firms to develop a centre of excellence to explore new markets. There's also an opportunity for the local education sector to establish itself as a training hub for the industry across the UK and Ireland."

Dalradian submitted its planning application in November 2017 and provided further environmental information in August 2019. The application is still under consideration. Dalradian has welcomed the recent confirmation by the Infrastructure Minister that the planning application will be the subject of an independent Public Inquiry.

Additional information on career opportunities and Dalradian's existing internship programme, which has provided work experience for 35 university students so far, is available at www.dalradian.com

IPAF announces head of safety and technical appointment

Brian Parker has been announced as the Head of Safety & Technical for the International Powered Access Federation (IPAF). He joins from AFI-Uplift Ltd and takes up post on 2 October, reporting to Peter Douglas, IPAF CEO and Managing Director.

Most recently, Brian was Group Business Development Manager-Technical Support at AFI and brings 24 years' experience working

in the powered access sector to the role.

He also previously held roles as National Specialist Training Manager for HSS, and was Group Health and Safety Manager and prior to that Training Manager at AFI.

Prior to that, he served for seven years in the Royal Engineers as an operator of heavy equipment. He is a certified IPAF, PASMA and CITB instructor, holds a diploma

from NEBOSH and is a graduate member of IOSH, and a Mental Health First Aid tutor.

Peter Douglas comments: "Brian's key responsibility is to ensure IPAF's resources are effectively used to raise safety standards in the powered access industry worldwide. He is the perfect fit for this role and is well known to all of us at IPAF having served on the UK Country Council and Training Committee. He has a huge amount of experience

and, as anyone who has met him knows, he is very passionate about safety."

Brian says: "I'm delighted to be taking up this important role for our industry. I hope to be able to use my experience and interpersonal skills to lend renewed impetus to the many safety initiatives and projects at IPAF. Key priorities will include driving forward IPAF's global accident reporting project (www.ipaf.org/accident), delivering technical guidance and developing Andy Access safety posters and Toolbox Talks to help keep powered access operations safe. I can't wait to get started."

view from the cab

NEW DYNAPAC SEISMIC CONCEPT DELIVERS SMARTER COMPACTION

BY PETER HADDOCK

The new Dynapac roller is a seismic shift in the way soil compaction and proof of its compaction is going to be delivered across sites in the UK & Ireland. With a lot of talk about smart compaction with 3D machine control, as rollers join other plant as part of a move to a more connected worksite, the focus of the industry is now firmly on how to improve compaction overall.

With a new Build, Back, Better challenge given to the construction industry and an increasing focus on reducing emissions, whilst proving quality, the decades-old 'six pass' rule is also coming under pressure.

This is creating a perfect storm for the earthworks sector, as not every site is moving to a connected approach and so smarter compaction is required both on and offline, all day, every day. This is why the new Dynapac Seismic roller is so important, as I found out when I joined leading blogger and operator,

Nick Drew to witness the machine in action at Midland Plant Training & Testing centre at Brownhills in the West Midlands.

Here I met with Mark Black, General Manager for Dynapac, who explained how the new machine will work and how it has been designed to overcome some of the existing challenges in the industry.





"The biggest issue in compaction for operators has always been knowing you have achieved the right compaction levels required onsite, as quickly and effectively as possible. What people unfamiliar with compaction also don't know is that over compaction can be as serious an issue as under compaction. This is because it damages the integrity of the material in the built-up layers.

"When we designed the new Seismic roller, it was all about matching the right equipment to a jobsite and how we could automate the compaction process, without the operator having to monitor it through different screens in the machine. As part of this process, we wanted to achieve a better environment for the operator by eliminating the over compaction 'bounce' whilst ensuring the compaction process was optimised for all sites.

Automatic

"To achieve this, our engineers have designed sensors that cleverly work out the compaction level

from the vibrations in the drum, feeding this information into a new onboard computer-controlled compaction solution.

With this information, the Seismic setup automatically adjusts the frequency that is coming through the vibration of the drum. This matches the natural frequency of the material, ensuring Seismic works in harmony to optimise compaction.

"In practical terms, when a compaction job starts, the operator of the machine can set the level of compaction required for a specific area they are working on, using the inbuilt compaction meter. Once inputted the operator starts their compaction sequences, with the machine analysing compaction throughout the number of passes.

"When compaction levels have been met, the machine itself tells the operator it has reached the correct compaction by stopping the vibration of the drum. This is immediately apparent to the operator and they can then move onto the next section, knowing they have completed the compaction to the right specification.

Benefits

"This achieves several benefits to both the operator and the earthworks business. Firstly, it ensures that once the job is finished, there is no need to come back to the site again or wait around for a surveyor to test the compaction levels. This removes the potential cost of travelling back to site and extra operator time.

"It also ensures that the number of passes needed to compact the site is delivered exactly, whether it's four, six or even ten passes that are required to complete the job. This means that the whole process

is optimised, including fuel consumption. And finally, for those businesses that want all of the compaction data for record taking, all of this information can be recorded on our Dynalyser software.

"This is our smart continuous compaction control that comes as an option with the machine. It uses the monitor in the cab to record each pass and the vibration used, linking this to GPS positioning data. So even though Seismic doesn't need to record data to ensure compaction, this is a great way of recording the progress on site. It also means that site managers can access the data to add it into as-built models, confirming compaction and working out how to best manage the project."

With the machine doing all of the work for the operator and site team, optimising and getting compaction right first time, the impact that the new roller is set to make is certainly going to be seismic.





REMOVING THE RISKS: TOP TIPS FOR BUYING PRE-LOVED MACHINES

Buying machine equipment is a big investment at any time. As companies emerge from the lockdown and attempt to get back to pre-pandemic work levels, Finning UK & Ireland, exclusive distributor for Caterpillar equipment, reports an immediate surge in demand for used Cat machines. Here, Scott David, used equipment machine inspector at Finning, provides a few pointers to help firms understand what to look out for to reduce the risks associated with buying a used machine.

One of the first and most important things to check is the condition of all easily visible wearing components such as the Undercarriage, tyres, and ground engaging tools (GET). These can give a good early indication of the overall condition of the machine.

This is especially important with tracked machines as undercarriage can represent a large proportion of the value of a used machine, or a large cost if worn components are missed. Just because an undercarriage looks good from a distance doesn't mean it is, be sure to check the condition of each component

Look out, too, for leaking hydraulic components. Weeping hydraulic cylinders can collect dust and dirt. Check the machine for leaking hydraulic hoses and any damp areas around valve blocks, pumps and motors these can result in costly maintenance and repair, not to mention machine downtime and loss of work on site

Overhaul

Every Cat machine has an estimated life expectancy. Check the machine hours to work out how much time the machine has before it's ready for a rebuild. From this you can work



Scott David.

out, based on your estimated usage, how long the machine will be productive for you and what your future maintenance costs could be. It's also worth checking is the machine has already had any components rebuilt.

If the oils are dark or black, the machine is probably due a service and oil change. It could also be an indication of a more costly problem though, such as an engine failure. If the oil smells burnt to of fuel, this could indicate overheating or fuel dilution. Discolouration of oil is a good indicator of overheating, contamination or wear in hydraulic systems and transmissions, again smell the oil, does it smell burnt?

Hydraulics

Check if any of the machine's key services are slow or laboured, as this could indicate a fault, clogged filters or other hydraulic

issue. Whilst operating the services check for wear in bearings and linkages; as the bucket, blade, etc. touches the ground and the weight comes off the pins, is there excessive movement in the linkages? This could mean worn or collapsed bearings and wear in the linkage bores.

Maintenance

Just as you check the service history if you're buying a new car, equipment owners should keep a record of the maintenance work that has been carried out on the machine during its lifetime. Checking these documents can give you a pretty good idea as to whether the machine is clean and a tidy prospect.

How clean is the cab? A dirty cab may not be reflective of the overall condition of the machine, but it will give you an idea as to how the previous owner has looked after it. If available check the display on the machines for any logged or active fault codes which could point to current or previous issues.

Bodywork

In addition, check out the bodywork. This is a bit of a no-brainer, but the state of the bodywork will show if the machine has been used and abused in the true sense of the word. Machine operators, in the main, take immense pride in their equipment. So, if it's been driven hard on the outside, then it's likely to have some potentially costly damage on the inside too.

Finning has an extensive stock of used machine equipment including mini to extra-large excavators, back hoes, material handlers, off-highway and articulated dump trucks, pavers and compactors. All used equipment is tried and tested and some have the option of a Finning warranty, taking all the risk out of purchasing a pre-loved machine.



2019 Komatsu PC210LC-11,
1,100 Hours



2007 Komatsu PC228USLC-3,
13,900 Hours



2014 Komatsu WA500-7,
11,400 Hours



2014 Komatsu D155AX-6,
8,000 Hours



2019 Terex Ecotec TTS
620T, 1,000 Hours



DEPOT LOCATIONS

Unit 525
Greenogue Business Park,
Rathcoole, Co Dublin, Ireland.
Birdhill, Co Tipperary, Ireland

SALES CONTACT

Denis McGrath
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Mob: +353-86387 2881
Email:
usedequipment@mchaleplant.com
Web:
www.mchaleplantsales.com



2016 Komatsu PC210LC-10,
3,000 Hours



2019 Komatsu PW148-11,
4,300 Hours



2012 Volvo L90G, 11,900
Hours



2003 JCB 411, 8,100 Hours



2014 Komatsu Forest 931.1,
9,900 Hours



2015 Komatsu Forest
840TX, 8,100 Hours



2014 Hino 700 Tipper,
250,000 Kms



2013 Manitou MLT735-120,
8,900 Hours



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MANITOU 100 VJR VERTICAL MAST BOOM

Make: Manitou
Model: 100 VJR
Year of Manufacturer: 2016
Hours: 147
Product Code: VMB-162
Price: **€12,995 + Vat**
Contact: Pierce Martin
087 674 1010



VB9 MOBILE LIGHTING TOWER - ECO

Make: Generac
Model: VB9
Year of Manufacturer: 2016
Product Code: LTE-162
Price: **€7,500 + Vat**
Contact: Pierce Martin
087 674 1010



SHIFTA MATERIAL CONVEYOR 300MM X 3.2M - DEMO MODEL

Make: MACE
Model: SHIFTA 3.2m

Year of Manufacturer: 2019
Product Code: MC202 DEMO 3.2m
Price: **€2,800 + Vat**
Contact: Pierce Martin
087 674 1010



MACGEN 100 KVA RENTAL SPEC GENERATOR - FAST TOW

Make: Macgen
Model: HFW-100
Year of Manufacturer: 2017
Hours: 11755
Product Code: G100D-172
Price: **€12,950 + Vat**
Contact: Pierce Martin
087 674 1010



YANMAR 3 TONNE ZERO TAIL SWING DIGGER 'DEMO MODEL'

Make: Yanmar
Model: V1026-6
Year of Manufacturer: 2019
Hours: 714.8 (from date of last GA1 inspection)
Product Code: DIG3-191
Price: **€26,500 + Vat**
Contact: Pierce Martin
087 674 1010



BRENDAN POWERWASHERS

Make: BRENDAN
POWERWASHERS
Model: BB1000
Year of Manufacturer: 2019
Product Code: PWTB-193
Price: **€6,500 + Vat**
Contact: Pierce Martin
087 674 1010



14FT (6X3') ALUMINIUM SCAFFOLD TOWER - SINGLE WIDTH

Make: Boss
Model: Single Width
Condition: Like New
Type: Aluminium 14ft (6x3')
Product Code: 14ST-SW
Price: **€1,750 + Vat**
Contact: Pierce Martin
087 674 1010



SNORKEL S3010E MICRO SCISSOR LIFT

Make: Snorkel
Model: S3010E
Year of Manufacturer: 2017
Product Code: SL19-1610
Price: **€6,000 + Vat**
Contact: Pierce Martin
087 674 1010



SKYJACK SJ3219 ELECTRIC SCISSOR LIFT

Model: Skyjack
Model: SJ3219
Year of Manufacturer: 2016
Hours: 240
Product Code: SL19-165
Price: **€5,950 + Vat**
Contact: Pierce Martin
087 674 1010



MACGEN 8 KVA MOBILE DIESEL WELDER - 300AMP

Model: MACGEN
Model: MPM8 / 300
SS - KA
Year of Manufacturer: 2017
Product Code: WDDL-172
Price: **€4,250 + Vat**
Contact: Pierce Martin
087 674 1010



SNORKEL A38E ELECTRIC BOOM LIFT

Model: Snorkel
Model: A38E
Year of Manufacturer: 2017
Hours: 273
Product Code: Z38-171
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2 new Kubota U55-4 to HBS in Belfast from D.A Forgie.



Denver McGee with his new PC80MR-5 from WAC McCandless.



1 of 3 Hitachi ZX33U-6 - Drogheda Hire & Sales Ltd, Drogheda sold by TBF Construction Machinery.



A new Truxta B450-G for Landscape Details. From Ballyward Plant Services.



Cathal Dunne and his son Conor, Moycullen, Co. Galway with their new SK75SR-7 from McSharry TRACK.



2 x New Komatsu PC210LC-11s delivered recently to NRS Group by McHale Plant Sales Ltd.



New Augertorque X2500 Auger sold to O Kelly Demolition Limerick.



Declan Slevin from DS Refrigeration in Loughall taking delivery of his new Mantiou M125d.



Coolestone Ltd, Coalisland taking delivery of their new Manitou MT420.



New Atlas Copco XATS138 sold to Dry-Ice Ireland by WAC McCandless.



A Bobcat E27z sold to Barry Meake by Northern Excavators.



New Case 590ST supplied by Cowan Bros to Clerkin Elevation Ltd, Rostrevor.



New Merlo P40.17 sold to Rebec construction by McHale Plant Sales Ltd.



New Case SR130 supplied by Cowan Bros to Bavanmore Farms Ltd, Newry.



New VIO26 for Marley hire from Crumlin Plant Sales.



New Case CX145D supplied by Cowan Bros to Campbell Contracts Ltd, Enniskillen.



KHC Hire with their new Bobcat E10z from Northern Excavators.



Komatsu D65PXI-18 Intelligent Dozer sold to Vincent Dempsey plant by McHale Plant Sales Ltd.



New Case CX30C supplied by Cowan Bros to JBW Building Services, Doagh.



Denis O'Donoghue, Goleen, West Cork receives his new SK210LC-10 from McSharry TRACK.



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Komatsu PC360LC-11 sold to Roadbridge Ltd by McHale Plant Sales Ltd.



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A New Bobcat S550 for Parkes Hire from Northern Excavators.



New Merlo TF35.7CS sold to Leon recycling by McHale Plant Sales Ltd.



A new Giant G5000 for EOS, from Ballyward Plant services.



New Case CX130D supplied by Cowan Bros to Russell Bros, Antrim.



a new Merlo TF33.7 to Gareth Hayes, Ballymena from D.A. Forgie.



New VIO27 for Merall Contracts from Crumlin Plant Sales.



New Cast 45T sold to O Gorman Tarmacadam Ennis Co Clare..



New PC80MR-5 c/w Epiroc SB302 Breaker sold to NuLine Utilities by WAC McCandless.



RT Boyd with 2 new Bobcat S650's from Northern Excavators.



A new Truxta B450-E Electric Mini Dumper sold to KC Hire by Ballyward Plant Services.



SK85MSR-7 going to Michael Moran, Elphin, Co. Roscommon from McSharry TRACK.



New Merlo TF50.8T-CS sold to G&L Milk Services by McHale Plant Sales Ltd.



A new Giant Tendo 4548HD for Antrim Tree Service, from Ballyward Plant.



Pictured with their recently delivered new Manitou MT420 are Richard, Stephen & James Gibson of Stephen Gibson Paving.



Sam Muckle with the Manitou MRT2550 Privilege + Rotating Telehandler delivered to Porter & Co.



New Wacker Neuson RD 18.80 sold to Hire 2k Dublin.



Tony Marley of Marley hire with his new Messers dumper supplied by Crumlin Plant sales.



New PC80MR-5 recently sold to Shannon Site Solutions by WAC McCandless.



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Kubota U48-4 sold to Raymac Hardware & Hire by D.A.Forgie.



Mill Contracts collecting their new Tuffbelt Conveyor from Ballyward Plant Services.



New PC138US-11 recently sold to Nettec Environmental by WAC McCandless.



MR contracts with their new New Bobcat E27 from Northern Excavators.



SK55SRX-6 delivered to AOK Plant Hire, Tralee, Co. Kerry from McSharry TRACK.



Sean Farrell with Grandsons collecting their new PC138US-11 from WAC McCandless.



SM HIRE with his new Bobcat E27z from Northern Excavators.



SK140SRLC-5 cw R4 Rototilt going to Deane Public Works Ltd., Irvinestown, Co. Fermanagh from McSharry TRACK.



SM Hire with their new Bobcat E10z from Northern Excavators.



New Wacker Neuson RTS C3 Remote control trench roller sold to Roadform Ltd Cork..



SK230SRLC-5 going to Triur Construction, Ballinasloe, Co. Galway from McSharry TRACK.



New Case CX85D supplied by Cowan Bros to Wendell McLean. Dungannon.



New Hammer Sb 300 breaker sold to J and D Burke Civil Eng Co Meath.



New Komatsu PC210LC-11 sold to Phil Roche Plant Hire by McHale Plant Sales Ltd.



New Epiroc MB750CL sold to Johnston Construction by WAC McCandless.



New Kubota U48-4 to Raymac Hardware & Hire from D.A.Forgie.



3 of 7 new Kubota diggers to Bann Hire from D.A.Forgie.



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