

# cranes & access

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July/August 2021 Vol.23 issue 4

**Loader  
cranes**

**Scissor  
lifts**

**Vertikal  
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**Software &  
technology**



....New Tadano ATs...100t Grove tele crawler...53ft RT scissor from Sinoboom....



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## On the cover:

Loader crane manufacturer Palfinger is starting to use artificial intelligence to improve after sales support from forecasting parts usage, wear issues and repair techniques.



# C&A contents

17

Loader cranes



27

Scissor lifts



37

Vertikal Days guide



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Comment 5

News 6

New 110/120t Tadano ATs, 110t Grove tele crawler, Sinoboom to launch 53ft RT scissor, Lithium boom from Snorkel, Uplifter 'Beast', Another Potain MCT tower crane, Ritchie Bros to acquire Euro Auctions, New 70t Tadano ATs, TVH ownership change, New investor for Klubb, Discover targets access market - plus a roundup of the latest financials, acquisitions and news highlights.



Loader cranes 17

With the development and spread of knuckleboom loader cranes continuing at a relentless rate, Will North reviews some key innovations before examining how these adaptable cranes are increasingly being used to great effect within the arborist sector.



Scissor lifts 27

In our third look at scissor lifts over the past 12 months, I einh Sparrow takes a sideways look at some of the more niche sectors of the market and notes the rapidly changing production and technology trends that seem to be gathering pace.



Vertikal Days guide 37

After two postponements due to Covid-19, Vertikal Days is back and raring to go with a record number of innovations and new products making their European and UK debuts. Our comprehensive guide contains everything you need to know about the show, the exhibitors and the products they plan to showcase.



Software and technology 91



Over the past few years, the use of BIM has grown to include the various equipment used for the construction and maintenance of buildings. C&A takes a look at the adoption of BIM by the industry and the potential benefits it offers. We also sat down with Haulotte to discuss how virtual reality technology is being used to design and improve its products.

## regulars

IPAF focus 97

ALLMI focus 99

CPA focus 101

PASMA focus 103

Books & models 105

Training 107

Letters and obituaries 108

What's on/Marketplace 113

Online directory 118

## In the next C&A

Scheduled for the end of September, the next issue of Cranes & Access will include features on All Terrain cranes, mast climbers and used equipment. It will also contain the Top 30 fleet guide of leading crane, access and telehandler rental companies within the UK and Ireland. If you have any contributions or suggestions to make, or are interested in advertising in this issue, please contact us today.

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## The days of the quick fix are gone

Many parts of Europe and North America are experiencing severe skills shortages due to long term under-investment in recruitment and training, exasperated by the pandemic and a desire for jobs with more socially acceptable hours.

The UK has been hardest hit by a growing truck driver shortage, thanks in part to Brexit, which put paid to the long used bail-out solution of hiring drivers from the EU, but it has also been compounded by a lack of driver training and testing during the lockdowns. It turns out that the average age of an HGV driver in the UK is 56. Anecdotal evidence suggests that the requirement for regular Professional Competence training and red tape is also turning older drivers off.

You may wonder what immediate impact this may have on the lifting market. Well, most crane operators hold HGV licences, and with supermarket chains offering generous signing on fees, high pay and fewer hours, a good many are already taking the bait, while others are naturally using it as a bargaining chip for more money.

The UK government has refused to issue more visas for foreign drivers, saying that the industry needs to recruit more British drivers. That's all very well but it's a long term solution to a short term problem. And let's not forget this is just one example of a much larger skills shortage problems faced by the industry throughout many western countries.

The industry must start investing seriously to recruit long term trainees and apprentices because the quick fix/stop gap measures are drying up. Years of saying "something must be done" has yielded nothing, and action is now urgently required if we hope to pass on lifetimes of hard earned experience and knowledge to a younger generation.

I remain optimistic however, having been a judge for this year's CPA Stars of the Future Awards, which aims to find apprentices in the equipment industry most likely to become industry leaders. The judges were reminded that they were not looking for the best apprentice, so college assessments and ratings were secondary. Our focus was spotting that extra spark – the 'X factor' if you like, no easy task.

The high calibre of the young apprentices and their enthusiasm for the industry was heart-warming (although the lack of applicants for the Lifting Technician Award, disappointing). The overall experience brought to mind the number of 'industry characters' that we lost this summer. People who were 'stars' of the crane and aerial lift market. I wonder if the next generation will generate its own 'characters'?

Perhaps in a more mature, more regulated, more data driven and litigious industry, 'characters', who were in many ways pioneers, are simply not required or wanted? If so, this brilliant, people orientated industry will have lost a very special ingredient.

This is our largest issue since 2019 as it contains the guide to Vertikal Days - where you will be sure to find a good many characters.

I hope to see you there.

Leigh Sparrow

*Comment and feedback is most welcome via post, email, fax or phone stating if we may publish them or not: editor@vertikal.net*

# Vertikal Press

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The upgraded 110 tonne Tadano AC 4.110-1 and 120 tonne AC 5.120-1

## Tadano upgrades ATs

Tadano has announced the upgrade of its four and five axle cranes in the 100 to 120 tonne class and updated the model names to reflect the company's latest Tadano/Demag nomenclature.

Its four axle 100 tonne ATF-100-4.1 now becomes the 110 tonne AC 4.110-1 without requiring any changes to its overall weight, thanks to a new stronger boom design. The same boom has also been installed on the five axle 120 tonne ATF-120-5.1 - now the AC 5.120-1 - which can be configured with 10 tonne axle loads.

Both models can manage 10 tonnes on the fully extended 60 metre boom at a four metre radius, a 37 percent increase over its predecessors, while offering a larger working envelope. The cranes retain the short minimum radius, thanks to an 84.7 degree maximum boom angle, making both cranes handy for work on tighter sites or at greater heights.

The upgraded models also benefit from an improved 10.1 to 17.4 metre bi-fold swingaway extension which can be extended to 31.9 metres to offer a 91.5 metre tip height. Up to 60 degrees of manual or hydraulic offset is available, as is a short 'runner' option. The new models retain Tadano's twin engine layout and use Mercedes Stage V diesels. The carrier engine drives through a ZF TraXon transmission with all wheel steer and four axle drive option. Overall dimensions remain the same.



The new cranes are well suited to tight job sites

The GHC110 offers variable asymmetrical track widths and a tilting cab



## New Grove tele crawler

Grove has launched an all new 100tonne/110 ton long boomed telescopic crawler crane for the Americas with the GHC110.

The new crane is built in Germany by Sennebogen and joins a growing line up of Sennebogen built Grove telescopic crawler cranes with lifting capacities from 30 to 127 tonnes. This model is unusual in that the Grove version has been launched before the Sennebogen equivalent.

The new crane features a five section 46.8 metre main boom plus an eight to 15 metre bi-fold swingaway extension for a maximum tip height of 64.2 metres. It has load charts for 0.6, 1.5 or four degree slopes and its 900mm wide variable width tracks offer asymmetrical widths of 3.58, 4.3 and 5.1 metres. The crane can also pick & carry its entire load chart.

With its full 28 tonnes of superstructure counterweight and 17 tonnes of carbody ballast, the crane weighs 107.6 tonnes in full working configuration. This is reduced to 61.9 tonnes with the counterweight removed and just 42.5 tonnes without its tracks.

Power comes from a Cummins QSB6.7 Tier 4 Final diesel, matched to a single variable displacement load sensing piston pump driving all crane and drive functions. The engine noise levels have also been reduced thanks to the addition of extra sound insulation in the engine bay. The cab is the latest from the German manufacturer, with masses of glass for unobstructed views, top level operator comforts and the ability to tilt up to 20 degrees.

The GHC110 will be launched at the Utility Expo in Louisville, Kentucky, on September 28th, with deliveries due to begin during the third quarter.

A Sennebogen version for other markets is expected early next year.



The new Grove GHC110 telescopic crawler crane



## New Sinoboom electric RT scissor lift

Chinese manufacturer Sinoboom will launch a brand new 53ft Rough Terrain scissor lift this autumn. The new lift is available as the diesel powered 1623RD or the battery electric 1623RE. Europe will only see the battery powered model as Sinoboom Europe has taken the decision to only offer electric powered machines, feeling that with diesel powered products already winding down, it makes no sense to start bringing them in now.

The full size Rough Terrain scissor lift, which will be known as the 5389E in the USA, offers an 18 metre working height with a 680kg/four person platform capacity. The base platform has an overall length of 3.96 metres which can be extended to 6.66 metres with twin roll out deck extensions, one of which is 1.5 metres and the other 1.2 metres.

Drive comes from four AC electric wheel motors, offering better traction and torque than the diesel alternatives.

The overall width is 2.28 metres, with an overall length of 4.88 metres and a stowed height of 2.44 metres with the guardrails folded. Four self-levelling jacks are available as an option - total weight without them is 9,250kg. We understand that it can also drive at full height. To see how this new machine stacks up in the market, check out the scissor lift feature later in the issue.



The Sinoboom 1623RE has an 18 metre working height

## Lithium boom from Snorkel

Snorkel will unveil a lithium battery powered version of its 46ft A46RT articulated boom lift at Vertical Days. Essentially a battery powered version of the diesel model, the new machine features a new lithium-ion battery pack with battery management system that constantly monitors each cell and works with the charger and the rest of the machine to achieve maximum efficiency. If it detects the temperature of any individual cell rising, it will channel the demand elsewhere while it cools a little. The smart charger will also sense which mains power output is available and adapt the charging programme to maximise it.

The battery pack powers a 20kw AC motor which in turn drives two hydraulic pumps. After that the machine is almost identical to the 18KW diesel model, but is more powerful. Snorkel says that in testing the battery pack delivered around three days of heavy usage between recharges, five to seven days at medium demand and seven to 10 days with light usage. The company believes that, while the machine carries a premium sticker price, it has a fast payback from a lower cost of ownership and annual fuel savings in the region of €1,250 a year, with substantially lower service and maintenance costs.

The battery pack is built in North East England using Nissan technology and is expected to have an efficient working life in the region of 10 years, at the end of which it can be returned for a new one. The battery manufacturer will then use it for domestic power supply and finally recycle it, recovering all of the base materials for reuse.

We will run an update on this machine once it has been launched.

*The lithium battery powered Snorkel A46 has the same features as the diesel, with lower cost of ownership, emissions and noise*



## New Liebherr flat top

Liebherr has added to its EC-B flat top tower crane range with the introduction of the 10 tonne 205 EC-B 10. The first units have been sold in France and Italy.

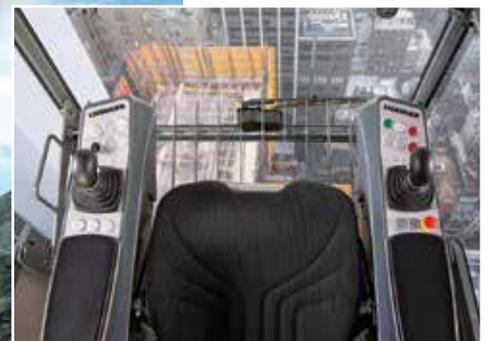
Slotting in between the company's eight tonne 172 EC-B 8 and 10 tonne 220 EC-B 10, the 205 EC-B 10 has a maximum jib length of 65 metres and a maximum hook height of 68.2 metres. It can handle its maximum capacity at a radius of 18 metres and has a jib tip capacity of 2.1 tonnes.

Features include a 45kW hoist offering lift speeds of up to 139 metres a minute, sliding pins for connecting the slewing platform with the jib and counter jib, and Liebherr's LiCAB cab. As of November, models will also be fitted with Liebherr's TC-OS multi-touch display, currently used in its 125 K self-erecting tower cranes.

The company says that the entire slewing section together with full jib and top ballast can be shipped with just four transport vehicles, with capacity remaining for tower sections or base ballast.



The 205 EC-B 10 has a jib length of 65 metres and a 2.5 tonne jib tip capacity





Potain's new flat top tower crane joins the company's Chinese built MCT range

## Another MCT for Potain

Potain has added another flat top tower crane to its Chinese built MCT range with the introduction of the MCT 135. The new crane is available with a maximum capacity of six or eight tonnes - the H6 and H8 - and offers jib lengths from 30 to 60 metres with under hook heights of 50.9 metres. With its 15.2 metre counter jib and 60 metre jib installed, the H6 can take its maximum capacity to 19.3 metres, while the H8 manages 15.3 metres - or 17.9 metres with a 40 metre jib. Both models offer jib tip capacities of 1.5 tonnes, while a shorter 12.6 metre counter jib allows the H6 to handle two tonnes at 55 metres and the H8 1.9 tonnes at 55 metres.

The H8 is fitted with the same 40 LVFC 20-1 Optima hoist as the company's recently launched MCT 185 and can lift one tonne with speeds of up to 98 metres a minute, or four tonnes at 40.5 metres a minute. The H6 features a 22kW 33 LVF 15 Optima hoist and can lift 750kg at 102 metres a minute or three tonnes at 36 metres a minute.

The crane can be installed on Potain's existing 1.6 metre L46 tower sections which uses pinned joints for faster installation. The company claims on a well prepared site it can be erected in a day and half while the entire upper works can be shipped in just five container loads. The MCT 135 will be available in Asia, Africa, the Middle East, Latin America, Australia and New Zealand.

## HVO diesel on the rise

Liebherr is the latest company and one of the first crane manufacturers to announce a full switch over to pure Hydrogenated Vegetable Oils (HVO) fuels for its mobile and crawler cranes. The fuel is produced with renewable energy and complies with EN 15940..

All cranes leaving the plant will be filled with the fuel, while all Liebherr engines up to 560KW are now approved for operation with the latest HVO fuel, which is manufactured mainly from vegetable and animal oil and fat waste from the food industry and converted into hydrocarbons by adding hydrogen. This means that the engines are essentially "CO2-neutral" according to Liebherr.

The company is now looking to work in partnership with its HVO suppliers and manufacturers to ensure that no foodstuffs, particularly palm oil, are used in the production of the fuel it uses or recommends.



Liebherr refuelling



The GW 1125 can lift glass panels weighing up to 1,125kg

## The Uplifter 'Beast'

German glass handling equipment manufacturer Uplifter has launched the 1,125kg Glassworker GW 1125, its largest pedestrian controlled glazing robot to date.

Dubbed the 'Beast', the GW 1125 provides almost double the capacity of the company's previous largest robot, the 625kg GW 625. It can handle its full capacity at a radius of 320mm and take it to a height of 2.4 metres. With its short front hydraulic stabilisers deployed it can handle 330kg at its maximum outreach of 2.32 metres and at its maximum height of 4.55 metres.

Offering an all up weight of 1.4 tonnes, it has an overall length of 2.28 metres and a width of 952mm with its vacuum cross removed. Featuring 12 suction plates, the vacuum cross weighs just 150kg and offers maximum dimensions of 1.27 metres by just over three metres with 90 degrees of articulation - taking glass from vertical to horizontal - and 120mm of side to side movement and can be individually configured. Power comes from four 12 volt batteries which are said to offer up to eight hours operation depending on the application.

Features include radio remote controls with a LCD panel, non-marking tyres and an 'anti-fall' system that automatically detects steps and curbs and prevents further forward movement. A quick release system allows the vacuum cross to be removed and replaced with optional attachments which include a tilting bracket, an electric cable winch and forklift forks. A special adapter can also be used to allow for the company's GW 625 attachments to be used.



It can also be fitted with a number of attachments

# LGMG boom lift launch

Chinese manufacturer LGMG has launched its new 72ft T22J dual capacity telescopic boom lift. The new machine features a rising boom pivot point and a three section telescopic boom topped by an articulating jib for a working height of 23.8 metres and a maximum outreach of 17.5 metres with a 300kg unrestricted platform capacity. Maximum platform capacity is 450kg with a three person outdoor rating.

The T22J is equipped with a large 2.44 metre wide by 900mm deep platform with a triple entrance design. The machine offers an overall width of 2.49 metres and a stowed length of 10.6 metres and a height of 2.79 metres.

The boom lift is powered by a Deutz Stage V/Tier 4 Final diesel with variable engine speed in order to reduce noise and fuel consumption. Four wheel drive and an oscillating axle are standard with 45 percent gradeability. Total weight is 12,300kg.

The T22J shares componentry and design concept with the company's other booms, including the CAN bus electronic control system with full on board diagnostics screen. Options include a generator, glass panel bracket, non-marking solid tyres, secondary guarding, and full telematics suite.

The standard product complies with the new ANSI A92, European EN280, Australian AS 1418.10, EAC and JIS standards.



The new 72ft LGMG T22J

# Electric RTs from Snorkel

Snorkel has begun production of its new five model 'RTE' range of battery powered compact Rough Terrain scissor lifts, the 22ft S2255RTE and 27ft S2755RTE, plus the wider 27ft S2770RTE, 33ft S3370RTE and 39ft S3970RTE.

All models are equipped with two lithium-ion battery packs and a built-in battery management systems which the company claims delivers at least eight hours operation on a single charge, and up to a week between charges. An optional third battery pack can be ordered or retrofitted. An AC motor powers its hydraulic four wheel drive system, while the drive train includes an oscillating axle and non-marking rough terrain tyres. The new models will be offered alongside the company's existing 'RT' diesel and 'BE' bi-energy models.



Snorkel's new lithium battery powered compact Rough Terrain scissor lifts are now in production

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The AC 4.070(L)-1 features the same 52.1m six section boom as the ATF 70G-4L

## New 70t Tadano ATs

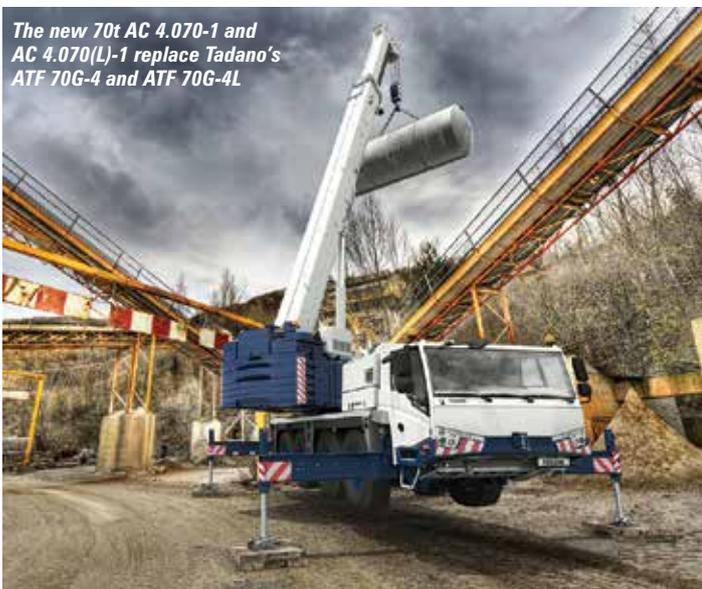
Tadano has launched its new four axle 70 tonne AC 4.070-1 and longer boomed AC 4.070(L)-1 All Terrain cranes, replacing its Stage IV powered ATF 70G-4 and ATF 70G-4L models.

Using the merged Tadano and Demag nomenclature system, the new Stage V models are essentially upgrades of the ATF models. The AC 4.070(L)-1 features a 52.1 metre six section boom, the AC 4.070-1 offers a shorter 44 metre five section boom, while both have load telescope capacities. The optional nine to 16 metre bi-fold swingaway extension offers up to 40 degrees of offset and can be ordered as a manual offset or with hydraulic luffing. Maximum tip height for both cranes is 71 metres.

The 16.5 tonne maximum counterweight remains the same, but with more variations, providing greater flexibility in terms of axle load configurations. For example, with 4.4 tonnes of counterweight and no extension the cranes can meet 10 tonne axle load limits, or they can carry up to 12.2 tonnes of counterweight within 12 tonne axle limits.

The two models also adopt the latest Tadano carrier cab, common to its Stage V powered models, and retains the dual engine concept, both of them Mercedes. The carrier engine is linked to a new ZF TraXon transmission, with rock-free and hill start assist functions. The standard drive steer configuration is 8x6x8 with optional all-wheel 8x8x8 drive/steer.

The new AML-F crane control system provides quick setup times and asymmetrical variable outrigger setting, as well as automatic monitoring and load chart configuration which maximises the capacity for the actual outrigger and counterweight configuration selected. Overall dimensions remain pretty much the same, with a length of 12.56 metres, a width of 2.55 metres with standard tyres and an overall height of 3.85 metres.



The new 70t AC 4.070-1 and AC 4.070(L)-1 replace Tadano's ATF 70G-4 and ATF 70G-4L

## TVH ownership changes

The Vanhalst family (the VH in TVH) has sold its 40 percent stake in TVH Parts to publicly listed Belgian conglomerate D'Ieteren Group, which owns multi-franchise car dealer D'Ieteren Automotive, car glass supplier Belron, notebook manufacturer Moleskine and a real estate business. The Thermote family (the T in TVH) will retain the majority 60 percent holding.



The Vanhalst family has sold its stake in TVH Parts to D'Ieteren Group

The move was prompted last year when the two families decided to go their own ways rather than face the complexities of handing the business on to a third generation. As a result, the group was divided into two separate entities - TVH Parts and the rental business Mateco.

The Vanhalsts agreed to sell their stake in TVH Parts and take 100 percent of the Mateco equity. Thus, the need to find a new minority partner for TVH Parts that fitted with the particular outlook and philosophy as the current owners. D'Ieteren paid somewhere in the region of €1.17 billion, valuing TVH Parts at around €3.65 billion.

A statement from the Thermote family said: "We are very grateful for having partnered with the Vanhalst family for the past 50 years and are proud of what we have built together. In D'Ieteren we have found a long term partner with a strong family history and a good cultural fit."

## Ritchie Bros to acquire Euro Auctions

Equipment auctioneers Ritchie Bros is to acquire Euro Auctions in an all share purchase deal that values the company at £775 million.

Euro Auctions was founded by Derek Keys and his brothers in Dromore, Northern Ireland in 1998. In 2020 the company conducted 60 auctions, selling 90,000 items for £484 million across its nine locations in the UK, Northern Ireland, Germany, Spain, the UAE, Australia, and the USA.

Ritchie says it will retain the Euro Auctions brand and employees including founder and chief executive Derek Keys, who will remain on board for at least three years.

Euro Auctions founder Derek Keys said: "Dave Ritchie and his brothers were a big inspiration for my brothers and I in the creation of Euro Auctions. Bringing us together will drive value for customers, as we provide more equipment, solutions, and services to the many industries and regions in which we operate."



# Private equity investor for Klubb

Private equity firm Andera Partners has acquired a substantial minority stake in French vehicle mounted lift manufacturer Klubb.

Klubb says the increased financial support will help consolidate its position in the European market by expanding geographically and building a broader product range, through organic growth and strategic acquisitions. The move also provides an opportunity for the wider management team to acquire a stake in the business.

Klubb's current line up runs to around 60 models and variants including vans and truck mounted lifts, along with specialist fire and insulated platforms. It has five assembly sites and has been adding services, such as long term rental and proactive product support.

Chief executive Julien Bourrellis said: "I am convinced that Andera is the right partner to accelerate our development, as its organisation and investment philosophies are fully in line with our international ambitions."



Julien Bourrellis  
of Klubb



# Discover targets access

Canadian battery manufacturer Discover Battery has introduced a Dry Cell Resilience range of maintenance free AGM batteries for the powered access industry.

Available in a range of sizes to suit most platform types, the batteries feature hydro polymer technology which the company claims provides 'exceptional resilience' to battery dry-out. They also features increased electrolyte saturation levels, an absorbent separator and improved battery charge acceptance. The batteries are said to deliver 15 percent more capacity and more consistent runtimes, even when nearing their end of life, or subjected to sub-optimal working and charging conditions.

Vice president of product and business development, Jimmy Au, said: "Used on large or remote sites, sometimes with limited access to power, battery charging can be intermittent and incomplete.

Our Dry Cell Resilience range looks to provide users and equipment owners with a more robust battery, designed to withstand and protect against the common battery challenges all too often encountered in the access industry."

The company also claims the batteries deliver higher operating voltages, longer runtimes and the ability to withstand deeper discharges compared to standard AGM batteries.



Discover's Dry Cell Resilience range has been designed specifically for the powered access industry

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# Financials round-up

Equipment auctioneers **Ritchie Bros** is to acquire Northern Ireland's **Euro Auctions** in an all share purchase deal that values the company at £775 million - just over a \$1 billion.



German telehandler manufacturer **Wacker Neuson** achieved six month revenues of €928.3 million, an increase of 16.5%. Pre-tax profits were €97 million, two and a half times what it was a year ago.

US based sales and rental company **H&E Equipment Services** reported half year revenues of \$594.2 million, up five percent on last year. Pre-tax profit for the period was \$27.4 million, compared to a loss of \$39.7 million last year.



**Tadano** achieved first quarter sales of ¥42.3 billion (\$382.8 million), marginally below the same period in 2020. Pre-tax profits were ¥735 million (\$6.65 million) compared to a loss of ¥825 million (\$7.5 million) last year.



International rental company **Mateco** has acquired Dutch aerial lift rental company **Debru Hoogwerker Verhuur**.

**Palfinger** has reported total first half revenues of €884.1 million, close to the company's half year record of €893 million set in 2019. Pre-tax profits almost tripled to €87.5 and were 20% higher than in 2019.



**Manitou**'s first half sales increased 27% to €970 million, while operating profit almost tripled to €85 million.

Six month revenues at **Genie** were \$1.07 billion, up 16% on last year, with an operating profit of \$91.8 million, compared to a loss for the same period last year of \$10.9 million. The backlog/order book at the end of June was \$1.44 billion, compared to \$509 million.



Nine month revenues at **JLG** increased 17% to \$2.23 billion, with higher aerial lift sales, but lower telehandler revenues. Operating profit improved 26% to \$218.4 million and the order book at the end of June was more than triple last year's levels at \$1.75 billion.



**Hiab** first half sales increased 11% to €603 million, while order intake jumped 80% to €933 million, leaving an order book at the end of June of €831 million, 65% up on the year. Operating profit increased 58% to 73.2 million. The company also announced the acquisition of US demountable truck body hoist manufacturer **Galfab**.



Sales at sister company **Kalmar** slipped seven percent to €705 million, although order intake jumped 80% to €1.13 billion. Operating profit more than quadrupled to €46.1 million.

France's **Kiloutou** has acquired **Salmat Location** and **Jean-Bart Location** in north west France, and **Diaz-Miquelez** in Spain.



**Konecranes** reported flat half year revenues of €1.46 billion, with order intake up 19% to €1.57 billion. Pre-tax profits increased 16% to €67.8 million.

Germany's **Hagedorn group** has acquired German crane and heavy haulage specialist **Wasel**.



US based **Herc Rentals** increased first half revenues by 17.5% to \$944.7 million, with a pre-tax profit of \$102.9 million, compared to a loss last year of \$2.5 million. The company also announced the acquisition of **CBS Rentals** in Texas.



**Alimak** first half sales declined five percent to Sk1.8 billion (€175.8 million), while pre-tax profits jumped 60% to Sk188.4 million (€18.4 million). The company has also acquired UK based façade access specialist **Cento Engineering Group**.



UK based **Ainscough Crane Hire** saw revenues for the year to the end of September drop around 17% percent to £74.53 million, generating a £7.53 million loss compared to a small profit the previous year.



Private equity firm **Andera Partners** has acquired a "significant" but minority stake in French vehicle mounted lift manufacturer **Klubb**.



US based **Acme Lift** is selling its aerial lift fleet to **United Rentals** and expanding its Hitachi earthmoving fleet.



**Manitex** has reported first half revenues of \$107.2 million, up 25% on last year, while pre-tax profit came in at \$5.2 million, compared to a \$9.7 million loss in the first half of 2020. The order book/backlog increased 64% to \$111.2 million.



**Snorkel**'s first half revenues improved 19% to \$71.7 million, helping cut net losses by more than half.

German crane and heavy transport specialist **Wiesbauer** has acquired the crane business of transport and heavy recovery company **Florian Herbold**.



UK based rental company **One Stop Hire** has acquired **Lord Hire Centres**.



**Manitowoc** is to acquire the crane business of its long time distributor **H&E Equipment Services**. It will also acquire the assets of **Aspen Equipment**, a crane dealer and truck body installer in Minnesota, for around \$51 million.



**TVH** and **Mateco** split. The Vanhalst family has sold its 40% stake in **TVH Parts** to publicly listed Belgian conglomerate **D'leteren Group**, in order to focus on its rental business **Mateco**.



Brazilian rental company **Mills** has reported total revenues of R326 million (\$62 million) for the six months to the end of June, up 46% on the same period last year, while pre-tax profit came in at R39.7 million (\$7.5 million) compared to a loss of R19.7 million (\$3.7 million) last year. The company has also confirmed its plans to spend \$63.2 million on 1,290 new aerial work platforms and confirmed the acquisitions of **SK Rental Locação Equipamentos** and **Nest Locação e Revenda de Máquinas**.

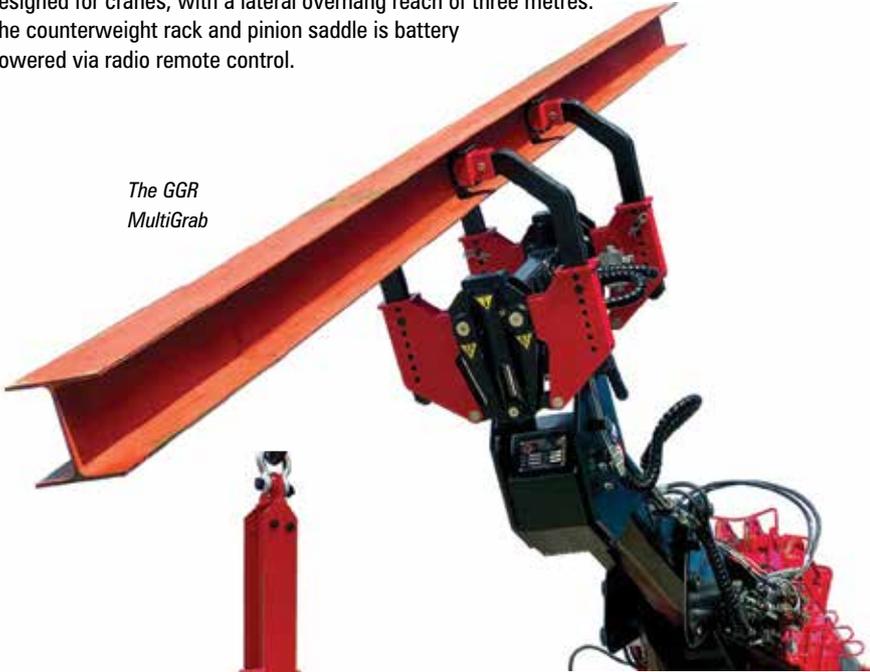
For the full reports on all these stories check out [Vertikal.net](http://Vertikal.net)

# New lifting attachments

UK based crane and glass handling supplier GGR held an open day at its southern headquarters in Haddenham, Buckinghamshire in late July. New products on show included the remote controlled MultiGrab hydraulic lifting clamp attachment for spider cranes, glass handling robots and telehandlers. A wide range of interface attachments allow it to precisely manipulate pipes, beams or panels weighing up to 750kg, with actions imitating the human hand and wrist.

Another new product is the Libro 20000, a 20 tonne capacity overhang/cantilever lifting beam designed for cranes, with a lateral overhang reach of three metres. The counterweight rack and pinion saddle is battery powered via radio remote control.

The GGR  
MultiGrab



The 20 tonne overhang/  
cantilever beam

# New windfarm guidance

The International Crane Stakeholders Assembly (ICSA) has released a new guidance document entitled 'Mobile Crane Ground Preparation for Wind Farm Construction'.

The guidance focuses on two main areas:

- 1) The construction of all types of access roads and routes, including ground bearing pressures for crane weight on the road, route paths, including information such as swept path analysis to assist the determination of dimensional and clearance requirements for the crane route.
- 2) The construction of crane working areas, including suggestions on hardstand construction, ground bearing pressures for different lifting configurations, and ground level requirements for crane working areas.

The guide does not address road construction for transport of wind turbine components however. The introduction, says: "Since most of the vehicles used for wind farm applications are special purpose vehicles or vehicles with heavy loads, the requirements and design standards of access roads and working areas should be specified by the controlling entity during the planning stage to ensure all construction activities can be conducted safely."

This is the fourth document published by the ICSA, all of which can be downloaded free of charge from ICSA and member websites. The organisation also has two further documents in the pipeline: 'Working with Mobile Cranes on Floating Barges' and 'Using Mobile Cranes for Pile Driving/Extraction Work'.



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- UK's **King Lifting** is taking nine new Liebherr All Terrain cranes
- ELS Lift** has appointed **Coron Access** as Benelux distributor
- Charles Wilson Engineers** joint founder **David Wilson** has died
- Germany's **AVL** has taken a 46ft **Haulotte** Sigma 16 Pro boom lift
- Poland's **Baran** has ordered 10 **Tadano** AT and crawler cranes
- Germany's **Wiesbauer** has acquired the crane business of **Florian Herbold**
- Hiab** is to acquire US demountables manufacturer **Galfab**
- Felbermayr** has moved into new headquarters in Austria
- Herc Rentals** is to acquire Texas based **CBS Rentals**
- UK's **NMT** has taken a 230t **Liebherr** LTM 1230-5.1 AT crane
- IPAF** has appointed **Martin Wraith** as IPAF Rental+ manager
- UK's **Speedy** has opened two regional service centres in Scotland
- Germany's **Rentem** has added 50 **Snorkel** platforms
- Australian crane veteran **John Gillespie** has died
- LGMG** has launched the 72ft T22J telescopic boom lift
- UK's **Merritts** has added an electric **JMG** MC 160 crane
- Hiap Heng** has taken a second 220t **Tadano** ATF 220G-5
- France's **Transconvoi** has taken a 70t **Sennebogen** 673 E crawler
- Paradiso** of Italy has taken a second 750t **Liebherr** LG 1750
- Manitowoc** is to acquire Minnesota's **Aspen Equipment**
- Germany's **KVS** has taken a **Demag** AC 45 City
- ELS Lift** has appointed **SNM Lift** as its low level distributor in France
- Alan Dotts** has joined US stock picker distributor **ePicker**
- The **LEEA** has formed a regional council for Australia and New Zealand
- UK's **Speedy Powered Access** is moving to HVO fuel
- Brazil's **Mills** is to invest \$63 million in new equipment
- Ritchie Bros** is to acquire **Euro Auctions**
- WernerCo** is building a new UK distribution centre
- Germany's **BSI** has taken several big **Genie** boom lifts
- UK's **Eagle Platforms** has invested £3m in **Haulotte** platforms
- Swedish access industry veteran **Alf Odrell** has died
- UK's **ICLS** has taken a 130t **Liebherr** LTM 1130-5.1 AT
- Zoomlion** has appointed **AJ Access** as UK powered access distributor
- Liebherr** delivered its 2,000th 34 K self-erecting tower crane
- LGMG North America** has hired **Eric Liner** as SVP national accounts
- Germany's **Rehm Arbeitsbühnen** has taken a **JLG** 860SJ HC3 boom lift
- Germany's **Autokrane Neu** has taken a 45t **Demag** AC45 City
- The UK's **HSE** has reported a rise in workplace fatalities
- Irish revenue officers discovered heroin worth €12.3m hidden in boom lift
- Mika Vehviläinen** of **Cargotec** will lead the merged **Cargotec/Konecranes** business while **Konecranes** CEO **Rob Smith** will leave the company
- Loxam Italy** has purchased four **Easy Lift** spider lifts
- Manitowoc** has reported a strong pick up in orders, sales and profitability
- UK's **Quick Reach** has ordered 270 new platforms, telehandlers and fork lifts
- US **Select Crane Sales** has opened a third location



**Charles Wilson**



**Martin Wraith**



**John Gillespie**



**Alan Dotts**



**Alf Odrell**



**Eric Liner**



**Mika Vehviläinen**



**Rob Smith**

- IPAF** has created an international safety committee
- MSG Krandienst** has taken a third 40t **Tadano** HK40 truck crane
- Germany's **Beyer Mietservice** has taken 30 **Ruthmann** TBR and TB truck mounts
- UK's **Rope and Sling Specialists (RSS)** has promoted **Tony Teeder** to regional account director
- Germany's **Power-Lift Deutschland** has changed its name to **Arbeitsbühnen-Zentrum Deutschland**
- Liebherr** has appointed **Kai Friedrich** as joint MD at **Liebherr USA**
- Spain's **Mainsa** has taken 30 **Haulotte** aerial work platforms
- Germany's **Ulferts & Wittrock** is to leave rental association **System Lift**
- Boels** is taking delivery of 32 **Easy Lift** spider lifts
- UK based **City Lifting** has added three **Hoeflon** spider cranes
- Sinoboom** has appointed **Jolene Pariso** as marketing & business development director
- Mateco** has acquired **Debru Hoogwerker Verhuur**
- Germany's **Wocken Industriepartner** has taken two **Europelift** trailer lifts
- France's **Chausson Matériaux** has ordered 300 **Hiab** loader cranes
- Germany's **Bruns** has taken a 70t **Liebherr** LTM 1070-4.2
- Palazzani** has appointed **Lift24** as distributor for Poland
- Simon Meester** has been appointed president of **Genie**
- Dutch company **Kuiphuis** has taken a **Speringer** eLift SK1265-AT6
- CTE** has appointed **Glendun Plant Sales** as dealer for Ireland
- Germany's **GE Gräser-Eschbach** has taken a 120t **Tadano** ATF 120-5.1
- France's **Huet Location** has taken several **ATN** tracked mast booms
- Mark Casey**, executive VP of **Alimak's** BMU division, is to leave
- Kiloutou** has acquired **Salmat Location** and **Jean-Bart Location** in France and **Diaz-Miquelez** in Spain
- O'Hagan Crane Hire** of Ireland has taken the country's first 110t **Liebherr** LTM 1110-5.1
- Ireland's **Allen Mobile Cranes** has taken a 220t **Demag** AC 220-5
- LoxamHune** has taken four 180ft **Genie** SX-180 boom lifts
- Chief Marine Group** of Florida has taken an 80t **Link-Belt** RTC-8090 RT crane
- Craig Morelli** of the **LEEA** has died
- Spain's **Grúas Estación** has taken a 104m **Bronto** S104HLA truck mount
- Snorkel** has appointed **Arslift** as distributor in Russia
- UK's **Cadman Cranes** has taken a fourth 60t **Liebherr** LTM 1060
- Germany's **Meier Kran** has taken a 45t **Demag** AC 45 City crane
- Spain's **GAM** has acquired forklift specialist **Recamasa**
- Chi Deh** has taken the first 102m **Palfinger** P 1000 truck mount in Taiwan
- Australian aerial lift veteran **David Single** has died
- UK's **Platform Hire** has taken first two lithium-ion **Snorkel** S397ORTE scissor lifts
- UK based **Hird** has taken an 8t **Valla** V80R crane
- Germany's **Luibl Rental & Sales** has taken 15 **Magni** 360° telehandlers
- Jekko** has delivered an **SPX1280** spider crane to the **Belgian armed forces**
- Poland's **Pekabex** has purchased a 180t **Liebherr** LTM 1160-5.2
- Mateco Spain** opened branches in Malaga and Navarra



**Tony Teeder**



**Jolene Pariso**



**Simon Meester**



**Mark Casey**



**Craig Morelli**



**David Single**

- Manitowoc** is to acquire the crane business of **H&E Equipment Services**
- Raimondi** has appointed **Diego Borgna** as acting CEO, replacing **Domenico Ciano**
- Germany's **Gigalift** has taken **Ruthmann's** 15,000th platform
- Korean shipbuilder **Daewoo** has ordered a 2,600t **Huisman** crane
- UK's **One Stop Hire** has acquired company **Lord Hire Centres**
- Germany's **R. Moll** has taken a 100t **Tadano** ATF 100G-4 AT
- UK's **SWAT Access** has taken 10 **Sinoboom** scissor lifts
- UK's **Facelift** has ordered Europe's first **Aspen** A-62 underbridge inspection platform
- Link-Belt Cranes** has appointed **Rebecca Havlicek** as marketing promotions manager
- Sinoboom** has appointed **Andy Verich** as market development director Russia/CIS
- Scotland's **AB2K** has taken a 60t **Liebherr** crane
- Sinoboom North America** has appointed **Jim Moxey** as regional manager Canada
- UK's **Oliver Connell & Sons** has taken a 23t/m **Palfinger** on a **Scania** Hybrid chassis
- Huisman** has tested a 350t crane hook created by a 3D printer
- Saudi Arabia's **Dayim Equipment Rental** has ordered 10 **Genie** ZX-135/70 boom lifts
- German rental association **Partnerlift** has appointed **Ralf Gärtner** as network manager
- Germany's **Niessen Kran-Service** has taken a 45t **Demag** AC 45 City crane
- LGMG** has appointed **Matthias Lundell** as service manager in the Netherlands
- US **Maxim Crane Works** has ordered 51 **Grove** cranes and two **Manitowoc** crawlers
- Germany's **K&W Autokrane** has ordered three **Liebherr** AT cranes
- MEC Aerial Work Platforms** has appointed **Barry Lawson** as marketing manager
- UK's **Wavetrade** has taken its first spider crane, a 4t **Hoeflon** C10
- Genie** has appointed **ICOM** as its partner for North West Africa
- A-Plant/Sunbelt** service engineer **Brian Symcox** celebrated 50 years with the company
- Terex Cranes** has appointed **Urcan Makina** as its RT crane distributor in Turkey
- Liebherr** has shipped the 1,300th maritime crane to be produced at its Rostock facility
- Terex Cranes** has appointed **Cheryl Landis** as aftermarket parts sales rep for North America
- UK's **Mainline Access** has taken two **Dingli** electric boom lifts
- Germany's **Hagedorn** group has acquired crane and haulage specialist **Wasel**
- Haulotte** has added a new service centre in Wuhan, China
- Germany's **Rhenus Midgard** has taken a **Liebherr** LHM 420 mobile harbour crane
- Italy's **Riminigr** has taken a second 43m **Palazzani** XTJ 43+ spider lift
- Germany's **W. Schnitger** has purchased two 70m **Bronto** S70XR
- Acme Lift** is selling its aerial lift fleet to **United Rentals**
- EnerMech** has appointed **James Phu Nguyen** as Asia director
- UK's **McGovern Crane Hire** has taken a 230t **Liebherr** LTM 1230-5.1
- US based **EFI** has taken the first **Haulotte** Pulseo RT scissor in N.America
- Germany's **Hüffermann** has ordered 70 **Liebherr** cranes for a new tower crane division



**Diego Borgna**



**Andy Verich**



**Jim Moxey**



**Ralf Gärtner**



**Barry Lawson**



**Cheryl Landis**



**Phu Nguyen**

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# Constant evolution

**C&A** knuckle booms and loaders

While the lockdown era may have cut opportunities to see new loader and knuckle boom cranes 'in the iron', development continues relentlessly. We take a brief look at some key innovations before delving into a specific application for these adaptable and increasingly popular lifting machines.



*Effer 1000 - big up and over reach*

On the corporate side, the biggest news in the sector has been the planned merger between Hiab /Effer owner Cargotec and Konecranes. The combined business will have sales of around €7 billion and a role in every step of the manufacturing economy, from manufacturing and raw materials such as timber and steel with forestry and overhead cranes, to port and marine cranes, loader cranes, demountable fork lifts and tail lifts used for transport and deliveries, and finally waste collection. The merger will complete in the new year

## Long, light, and heavy

Effer has a reputation for innovation at the heavier end of the market, its latest crane, the 90 tonne/metre Effer 1000, features a long 10 section boom, and seven section jib – the first crane of this size to feature nine boom extensions and six in the jib. Yet the overall crane weight is 9,300kg, which it says is low enough to be installed on a compact 32 tonne GVW chassis. The company says it will be a strong competitor for lifting heavy loads

in urban environments. Maximum capacity is 25.8 tonnes at three metres, or 2,300kg at 26 metres outreach at an up & over height of 26 metres, while the maximum tip height is 38.4 metres or 42.8 metres with manual fly.

"The Effer 1000 is a heavy loader crane with the reach and lifting capacity of a super heavy crane without needing the bigger truck, providing the flexibility to work in tight urban spaces and save money," says global product development director Marcel Boxem.

## Automatic tip control

While small to medium knuckle boom cranes are often described as 'loaders' their real benefit is unloading. The challenge is rarely getting a palette of bricks onto the truck, at the supplier's yard, while unloading at a customer's premises and placing it where they want it is. One exception to this is waste collection, involving loading large recycling bins or tanks, where operators need to hook on to a top mounted lifting lug. Making this both quick and safe is vital in these days of driver shortages.

Palfinger is targeting the issue with its new Smart Control system. Conventional controls require several lever movements to reach the load. Palfinger's new system allows the operator to control multiple functions with a single lever, to move quickly and smoothly to the target. The logic of the movements is processed in the Paltronic control unit which independently calculates the direction of each function in conjunction with the HPSC-Plus Load system, which also compensates for chassis inclination and boom deflection. The Flow Sharing electronic oil distribution system constantly adjusts the hydraulic actuators to guarantee smooth, precise and efficient function movements. The Smart Control can be switched off or overridden when not needed.

## East of Italy

The loader crane market has traditionally been split between Europe with articulated and Asia with straight booms, while the USA is completely different again. Italian manufacturer Fassi is targeting the Asian market with the new XR710 telescopic boom loader crane, developed for its Fassi Asia Pacific division, based in Nilai, near Kuala Lumpur, Malaysia. The new crane combines a telescopic design, popular in the region, with the manufacturer's high end control systems.

The crane has a maximum capacity of seven tonnes and is available in two versions, the XR714 with four section 13 metre boom and the XR716 with a six section 19 metre



*Palfinger's Smart Control system allows the control of multiple functions with a single lever*

boom – the final digit is the number of boom sections. Most lifting with telescopic loader cranes involves the use of a winch. So the XR710's winch is neatly built into the slewing column/post, just below the boom pivot point.

The crane has a choice of control positions, the high seat mounted on the turret post, or ground controls more typical on articulated cranes. Features include Fassi's FX200 load limiter with acoustic and visual warnings, dual motor slew drive, a winch limit switch system, and two halogen work lights.



*The new Effer 1000 - big crane capacity and reach on a smaller chassis*



*Fassi's new XR710 telescopic*

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# Early adopter

What do you do when you can see a new way of working, but no-one can sell you the right tool for the job? That was the challenge Alistair Magee faced when he looked to bring a safe way of mechanised tree felling to the UK. Will North spoke to him, and his eventual supplier, Mac's Trucks.

Often, in the equipment industry, innovation comes when someone spots a profitable niche and develops a new tool to service it. That was certainly part of Magee's motivation to commission a large knuckleboom designed to work with a grapple saw, but it wasn't the main one. "I don't care about money. You can always make more money. But you can't make a new person, once you've hurt or killed them," he says.

Working as a subcontractor, largely on his own, it's Magee's life and livelihood on the line any time he climbs a tree. For a long time, he was prepared to take on those risks. That willingness, along with his skills at climbing and felling trees, let him work wherever he wanted.

"I've climbed trees all around the world. You can go anywhere you like climbing trees and felling them because there's so much demand. But people can get very, very, very forgetful and complacent with the risks that they're taking. Me included. I've done some crazy,

crazy stuff over the years in different environments, in different countries as well, because over the years I have lived in Sweden, Italy, and Holland, all the time felling trees."

Eventually though those risks begin to play on your mind. Magee says: "It's only when you start getting older that you start evaluating the risks properly. People have families, they start getting serious responsibilities, like mortgages, or they've got other employees and the risk taking doesn't actually look quite as acceptable."

So Magee began thinking about new ways of working: "I remember making the decision five or six years ago that I wasn't going to be somebody who was going to end up with a broken back."

### Inspiration

He had already seen the sort of equipment he wanted to work with. "I first saw it back in about 2006, when working in Sweden. It was used in a different context, but it was very much the same principle. And this guy kept his cards really close to his chest and didn't show

## C&A knuckle booms and loaders



*Despite its compact chassis, the vehicle has plenty of space for other equipment*



anybody. About 10 years later the same type of equipment appeared in America. When I first saw it, I thought that's really smart. Really quite clever. Definitely a massive improvement on climbing trees and taking lots and lots of unnecessary risk."

Magee knew what he needed. He wanted to be able to reach in from distances as far as 35 metres and

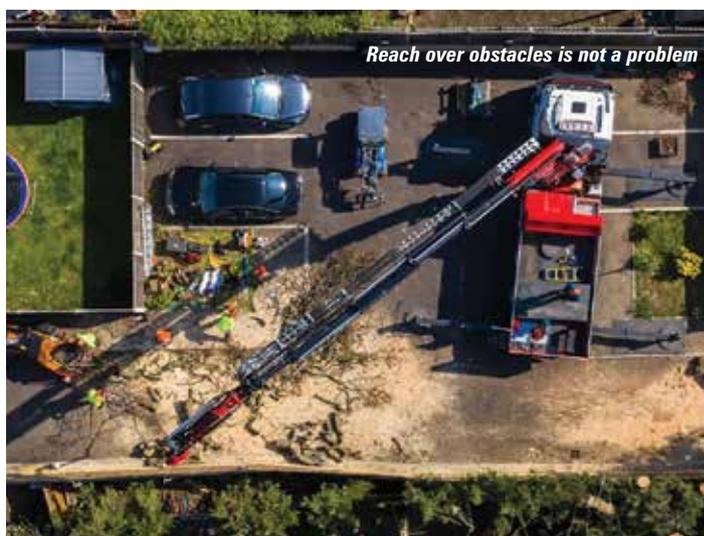
lift loads of up to 500kg. To do that safely, he needed to work to a two to one factor of safety after allowing for the weight of the grapple saw attachment.

What he didn't want to do - because it is unsafe, and illegal - was to work on the override key.

But it's something he says is happening with other contractors. He explains that, while he rates



*Testing the new crane with Mac's Truck*



*Reach over obstacles is not a problem*

## knuckle booms and loaders **C&a**

360 degree telehandlers as base machines, they aren't the right tool for this job. "While they have the reach and maximum capacity, they overload it with a head that is not suitable. A machine like this might have 30 metres of outreach, but they're putting a 1,500kg implement on it, like a grapple saw or tree shears. And then inputting a false value into the overload control and bring load down on the override switch."

He took his idea to a number of UK truck bodybuilders. One, he says, seemed quite happy to sell him a machine that - looking back - he realises now would have been illegal to use. Others wanted to sell him a product they thought he needed, without understanding the job.

### Bringing vision to reality

It was only when he came to Mac's Trucks in West Yorkshire that he found a supplier who could bring his vision to life. "Mac's Trucks are on a different level, in my opinion. It's actually really nice to have someone like that in your corner because nothing's too much trouble for them. Even if you change your mind, they'll just go with it and sort it out."

After looking at his requirements, Mac's proposed a 70.23 tonne/metre Fassi F820RA2.27 as the base crane which lifts 3,270kg at its maximum reach. An L426 jib extends the crane's reach to the 30 metre Magee needed, while leaving enough capacity for the Mecanil SG280 grapple saw, the anticipated 500kg loads, and the required 2:1 safety factor. The saw replaces the final jib section, with a rotating knuckle to allow a full range of movement. An additional V20 winch allows Magee to lift larger loads, for example when removing trees from back gardens.

The crane was mounted on an 8x4 Volvo FMX460 chassis. Andy Hall,

technical director at Mac's, said: "We built it on a super short 8x4 platform. It is basically the same sort of size platform as an 8x4 tractor. It's nimble, will go into a tight spot and has decent off-road capability." A front stabiliser jack allows Magee to work at full capacity through 360 degrees. The chassis has plenty of storage space for saws, ground mats, and other equipment.

That took care of the basics of lifting these loads and getting to site. But Magee and Mac's weren't done. A lot of Magee's work takes place overnight. Network Rail, one of his regular clients, might need a tree removed from alongside a train line. That can't be done during the day, without line closures. So, Magee spent almost £20,000 on lighting, to illuminate the working area around the crane. Mac's also added two cameras, on the saw and boom.

The final step was to tie everything together through the stability system and remote controller. Hall points out that many cranes are used right at their limits. That was not possible here, because of the difficulty of assessing loads, dynamic loading, and the risks associated with picking loads at height.

"You've got to allow for that potential overload," Hall says. "The machine is way beyond, from top to bottom. The crane works way under its actual potential. Most of the time, he's working at 50 percent capacity. I designed the stability of the vehicle around 60 to 70 percent above the actual overload capacity of the crane, to make it absolutely sound and solid on the ground. We have a special type of subframe that we use on some of the really big cranes. We used a version of that, but more compact, which makes it even more stable."

The control system for the crane was reprogrammed from scratch.

*The lights on the crane allow safe work at night*



*The crane can work in restricted spaces*

Hall designed the control system so that the saw was controlled from the crane controls. "It was a little bit tricky to do, but it works. There are no wires to get caught, just five hydraulic lines, and it's purely remote control. On the grapple itself, you've got the ability to rotate, tilt, grab, and the ability to saw. So, he's actually got four functions. It's very, very dexterous."

"There are three extra buttons for the saw on the remote, so if you just operate the grab, it simply grabs and releases. If you press one button and grab, it makes it tilt up and down. And then if you press another button and pull the grab, it operates the saw. So, it works like a deadman, so you can't accidentally set the saw running, or accidentally tilt. It's quite a simple but effective way of working. And once you've used it for an hour it becomes completely second nature."

Training Magee to operate the crane and grapple saw, for which

he is now ALLMI certified, and checking its performance, took Mac's out into the woods, letting them see first hand how it works. It's an impressive sight. As well as being a skilled tree surgeon, and innovative specifier of lifting equipment, Magee makes adept use of social media to promote this new way working: his Instagram feed 'a.mtreesurgeons' and similarly named LinkedIn account document his work.

Anyone who has ever arrived hungry at an Italian restaurant and worked their way through a stack of breadsticks will recognise how Magee takes down a group of trees: taking the ends off, a manageable piece at a time, and transferring them neatly to the ground. But his videos also show the wide range of uses the crane can manage, often in restricted environments.

His investment looks to have paid off. Since commissioning the crane a year ago, he has been constantly busy taking on work day and night.

*A close-up of the saw at work*





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# COMPELLINGLY VERSATILE.

## THE NEW AC 4.110-1 AND AC 5.120-1

The heart of both cranes is a reinforced 60-m main boom compared to the predecessors that provides extraordinary lifting capacities, particularly when fully extended. A tight minimum radius, greater lifting height, and 82° boom angle make it possible to work closer to the crane. This makes both crane models even better suited to work sites where space is at a premium, as well as to work at large heights. As a compact four-axle unit, the AC 4.110-1 is maneuverable on tight roads and work sites. As a light five-axle crane, the AC 5.120-1 is ideal for routes where staying under specific axle load limits is crucial. Thanks to their shared superstructure, 80% of the counterweights are fully interchangeable between both cranes – this applies to the boom extensions as well, with one of them being a new extension with reduced complexity.

# Safety balance

**Grapple saws attached to knuckleboom cranes can help avoid many of the risks arborists face. But they present a whole new set of risks. A group of industry associations are working to develop guidance for cranes - and other equipment - to be used safely for this application, Will North reports.**

Arborists are beginning to discover that by mounting a grapple saw on a knuckleboom crane, equipped with remote controls, they can work from the ground, removing the risks of using a chainsaw at height. The device grabs the section to be removed, and the saw then cuts it, avoiding the need to tie it off to the tree prior to cutting. The use of this equipment poses a series of new risks though. On the crane side, there is concern about the unknown weight and balance of the load and how suddenly taking the weight at height affects the working of the rated capacity indicator. On the forestry side, experts also warn of risks associated with the saw itself.

## Dieback demand

Recent years have seen the spread of a new fungus, *Hymenoscyphus fraxineus*, which causes Ash Dieback. The fungus originated in Asia where local varieties of ash trees have a resistance to the disease. The past 30 years have seen it spread through Europe where varieties have little or no resistance. The UK is the latest country to see it, with the first cases



Ash Dieback is spreading

recorded in 2012. According to the Woodland Trust some 80 percent of ash trees are likely to die from the disease in the coming years.

Trees killed by Ash Dieback will often need to be removed, particularly when they are close to roads and railways. This drives demand for the skills of tree surgeons. But cutting down dead trees manually can be risky.

Gillian Clark, chief executive of FISA, the Forestry Industry Safety Accord, explains: "Dead ash, particularly the longer it's been affected by disease, becomes incredibly challenging to fell. The felling of dead and dying Ash in effect makes an already hazardous operation much more dangerous: the tree can snap off; the tree can explode when it hits the ground and bits of branch fly everywhere. It is essential that every effort is made to fell these sites mechanically and keep chainsaw operations to an absolute minimum."

Simon Richmond, of the Arboricultural Association (AA), highlights a recent tree felling incident. He said: "The tree fell sideways and crushed the tree worker. Experienced operators know how to fell trees. So, this was highly unusual and is one of the reasons why more arborists are looking at using tree shears or grapple saws, because they say, 'the best way to avoid hurting myself is to get out of the way and mechanise it'."

As the disease spreads, large numbers of trees that are close to roads and railways will need to be removed, and ideally without closures. Crane based solutions could be ideal for this work, but they do pose their own risks.



Grapple saws, like this GMT TTC (Total Tree Care), can be safely used when attached to telehandlers and other equipment. But it is important to make sure the equipment has the capacity for saw, load, and a 2:1 safety factor

## A warning too late

One of the most devastating ways a crane can fail is through overloading and tipping. There are two ways to avoid that happening, the first step is to know the load you are lifting and the capacity of the crane. The second is to use an overload device. But with tree removal work you cannot be sure how much a section weighs until it has been cut and is on the 'hook', and then it's too late. Dynamic loadings as the weight transfers suddenly from the tree to crane can also be a factor. The overload device may then cause a cut out, which leaves the crane in a perilous situation.

On tree work, neither of the mitigating steps are straightforward. Alan Johnson, chairman of ALLMI, the UK Association for Lorry Loader Manufacturers and Importers, points out: "There are no means of assessing the weight when you are attaching a load of this nature. In normal lifting operations, the stability warning device will tell you whether it's stable or not and the Rated Capacity Limiter will tell you whether you're overloaded

and prevent it. But this type of application carries the risk of both those devices being defeated. If you're suddenly lowering uncontrollably at a rate of knots, no stability protection system on earth will stop you from tipping over in that scenario."

Trees also grow unpredictably. A steel erector can look at a beam and - knowing its dimensions - make a very close estimate of its weight, usually he will already know the exact weight. An experienced tree surgeon can only make a well informed guess.

When a tree surgeon uses a grapple saw to remove the top of a dead or dying tree, the rated capacity limiter's warning offers no real protection. The alarm may sound, but with the crane suddenly taking on a load, as high as 30 metres above the ground, if it is too heavy there is little the operator can do. The crane will follow the load. Anyone in the way, or working from the crane, risks fatal or life changing injuries.

Chainsaws have their own risks, which will only be immediately



**A Mecanil SG280 saw, similar to that used by Alistair Magee (see profile) in action**

apparent to those in the tree sector. This is known as 'chain shot'. Clark explains: "It's caused by high velocity separation, basically ejection, of a piece of the cutting chain when chains break. The whip effect which occurs as the broken chain passes the ends of the saw bar accelerates small pieces of broken chain to ballistic speeds. It's like being shot by a bullet." And current safety screens cannot fully protect against this.

A report by Washington State's Department of Labor and Industries, highlights the risks chain shot poses. A forestry worker, 47, was removing trees using a mechanical harvester. After felling a tree, he began cutting it into smaller pieces. As he did so, the saw attachment on his Timberland harvester failed. Three pieces of chain hit the cab. Harvesting machines typically use thick polycarbonate windows such as Lexan's Margard to protect against this risk. It offers around 250 times the impact strength of glass, and 30 times that of acrylic.

One piece of chain penetrated the 17mm polycarbonate screen and was still moving at speed when it struck the operator in the neck. He was able to call a co-worker for

help, who contacted emergency services, however by the time they arrived, he was dead.

Imagine working with these risks in an urban environment, felling dead ash along a busy motorway or train line, or on a high street or school playground? How do you decide the best method of work - manual operations that might see an operator fall from height? Or mechanised operations that may send pieces of chain or exploding lumps of dead ash flying at ballistic speeds towards members of the public?

Some grapple saws are designed to work at lower chain speeds which do not produce the potential for chain shot, provided they are used at the recommended hydraulic pressure. Others are fitted with chain shot protection measures to control the risk. However, as the required risk exclusion zones are extensive to protect bystanders from chain shot, there is concern that using these attachments in populated areas will introduce unacceptable risk.

### Alerting the industry

The first public warning of these risks came in April of this year, when FISA and the Arboricultural Association issued a safety alert 'Tree Shears and Grapple Saws' warning of the risks of chainshot and gave advice on equipment selection and risk zones. It also, significantly, pointed out that lifting equipment with grapple saw attachment is engaged in lifting operations. Therefore, regulations like LOLER (Lifting Operations and Lifting Equipment Regulations 1998) apply. There remain concerns over the suitability of the types of base machines (such as excavators, telehandlers and lorry loaders) selected for such operations due to potential instability.

On the crane side, many manufacturers and installers have taken the decision not to fit grapple saws. One such is Palfinger UK, the Austrian manufacturer's independent UK distributor where ALLMI's Johnson works, and Mac's Trucks, who built the crane featured in this issue's profile.

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While they are confident Magee's crane could serve as a model for this equipment configuration, they won't be building more until the guidance is complete.

UK safety regulator, the HSE, also played a part in preparing the FISA/AA safety alert. Along with ALLMI, and others, they are helping FISA and AA develop a new best practice guide, which was entering the final stages of review as we went to press. An HSE spokesman told Cranes & Access: "Both the forestry and arboriculture sectors have one of the highest workplace injury rates, with a rate of fatal injury some 18 times as high as the average across all industries. The use of machinery based felling aids such as grapple saws, which can reduce risk by the removal of the need for motor manual (chainsaw) work, is currently being worked on by an FISA working group which will shortly produce industry guidance in the form of a FISA Guide which is currently in final draft."

"This is particularly important, not only because of the work at height risk but also because of the need to deal with ash dieback which can result in brittle and unstable trees. However, the introduction of these machines, which are interchangeable equipment mounted on a variety of base machines (cranes, excavators and telescopic handlers etc.), are not without risks hence the need for the new FISA Guide.

"The key issues are selection of a suitably stable and adequately protected base machine CE

marking to the forestry standards, provision of manufacturer's safety information on use including safe lifting capacities, risk zones for both operators and members of the public and potential chain shot and associated risk zones which can be up to 90 metres. The last issue is particularly important as these machines are often used in urban environments increasing the number of people who are potentially at risk."

### Dual skills

Safe working using these machines requires two key sets of skills. The operator should be competent to plan safe operation and a safe site. They must also prepare a lift plan which risk assesses the likely load of the tree or section of it to ensure it is within the lift capacity of the base machine. Typically, that would require expertise in both tree work and competence in lift planning equivalent to that of an Appointed Person (AP).

Clark notes though that while a trained AP may be considered competent for lift planning under LOLER, that doesn't mean they are competent to assess all the risks of this work. "The traditional risk element checks: steep banks, not putting a leg through a gas main etc... are still required, but I don't think people are aware how much more involved the tree shear or grapple saw is, as opposed

to a range of other heads and attachments they may use on a given base machine."

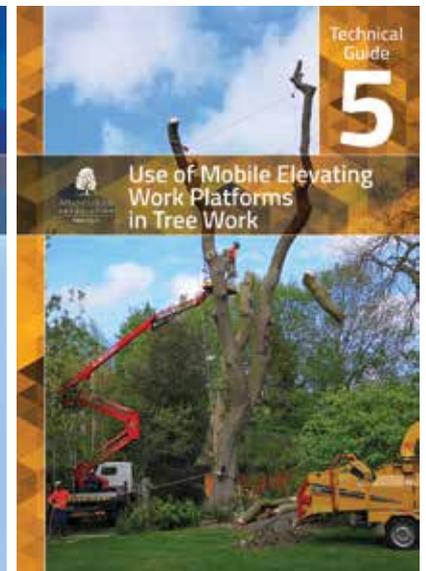
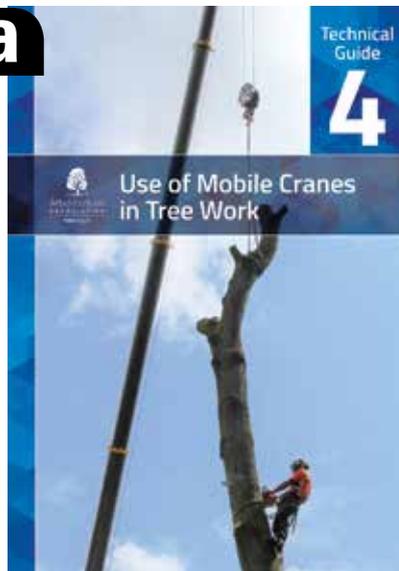
"Even though they may legally be the Appointed Person under BS 7121, if they have never had anything to do with one of these heads before they should really question their own competency to act in that position eg: assessment of sectional timber weights and drop/risk zones etc... They clearly wouldn't have the competency to do so."

Few tree surgeons will have all the skills needed to work as an AP. The Arb Association's Richmond says: "I think in many cases, they wouldn't necessarily have an appointed person as part of their team. But they'll be absolutely aware that that's what's required in order to carry out the work."

Few APs will have all the expertise needed to assess the risks of working with a grapple saw. The

FISA/AA alert offers one approach, saying: "Due to the significant hazards and risks posed by tree felling operations a generic (lift) plan may be produced, however the plan will need to be reviewed on a site by site basis, following the carrying out of a risk assessment, to ensure that it remains relevant and, where necessary, additional controls are put in place."

What most clearly shouldn't be happening is general construction companies buying grapple saw attachments, fixing them to otherwise unmodified excavators, and sending their operators out to clear dead ash trees from a job site. But, speaking to experts for this article, it's clear to me that in some cases this is happening. If a fatal accident occurs as a result, the equipment owner is likely to find themselves in court, with a death on their conscience and with no legal defence.



The Arboricultural Association has produced technical guidance on the use of cranes and access equipment in tree work.



BIK Hydraulics' PM crane with Mecanil grapple saw in action





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# knuckle booms and loaders **C&a**

## A rule of thumb

One of the questions being considered by FISA, the Arb Association and HSE as they work together on the upcoming safety guidance is the use of a 'rule of thumb' to help operators or supervisors to predict the load of cut tree sections.

Clark says: "We've put a rule of thumb into the new draft guidance; but some are unhappy at it being in there. At the moment, it's still in and I'm hoping it will stay in. I just want people to understand that it is very difficult to guesstimate the unique loading of timber/cut tree sections. The rule of thumb is certainly not thorough, so if it remains in the guidance, would have quite a strong caveat to say that."

Ultimately, whether a rule like this is defined in the guide or not, operators will need to in some way assess the load to be lifted. ALLMI's Johnson says: "If there is such a rule of thumb guide that states 'if it's x metres long and y metres diameter, therefore it weighs x', which is the logical way of doing it, then, I imagine there will also then

be a need to build a safety factor of e.g. two to one. So, if you assess the weight at 500kg, you'll have to use a crane that is capable of doing at least a tonne at that radius."

## What can you do?

The requirement is likely to grow substantially as Ash Dieback spreads. Many tree surgeons who are used to working manually are considering equipment to help them take on the expected workload, general construction companies may be considering including ash removal in the services they offer; and equipment suppliers should be considering how to offer mechanised tools for this work.

If you want to take on this work, start with the FISA/AA alert, and then make the right equipment selection, ideally a machine that can reach over obstacles, such as a knuckle boom, the right attachment for the job, with the necessary protective measures installed, including operator protection and remote controls to see the load from the best location. On top of that you'll need skilled



Sennebogen offers a range of material handlers suitable for use with grapple saws. Germany's Schumacher Garten & Landschaftspflege use this 718 E.

staff that can assess all of the risks, including the weight of loads and the risks associated with the specialised attachments. That may

require employing or contracting experienced tree surgeons, who have been thoroughly trained to use both a crane and a grapple saw.

## Resources

Tree Shears and Grapple Saws safety alert  
[www.ukfisa.com/Safety/Safety-Alerts/tree-shearsgrapple-saws](http://www.ukfisa.com/Safety/Safety-Alerts/tree-shearsgrapple-saws)

Arboricultural Association guidance:

Use of mobile cranes in tree work  
[www.trees.org.uk/Book-Shop/Products/Technical-Guide-4-Use-of-Mobile-Cranes-in-Tree-Work](http://www.trees.org.uk/Book-Shop/Products/Technical-Guide-4-Use-of-Mobile-Cranes-in-Tree-Work)

Use of mobile elevated work platforms in tree work  
[www.trees.org.uk/Book-Shop/Products/Technical-Guide-5-Use-of-Mobile-Elevating-Work-Platforms-in-Tree-Work](http://www.trees.org.uk/Book-Shop/Products/Technical-Guide-5-Use-of-Mobile-Elevating-Work-Platforms-in-Tree-Work)

Timber Harvester Operator Killed Following a Chain Shot Incident  
[www.cdc.gov/niosh/face/pdfs/10WA048.pdf](http://www.cdc.gov/niosh/face/pdfs/10WA048.pdf)

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# Clash of the titans

In our third look at the self-propelled scissor lift market over the past 12 months, Leigh Sparrow examines some of the more niche sectors of the market and notes the rapidly changing production and technology trends that seem to be gathering pace.

Of all the things I learned at junior school, one lesson - or more accurately one fact from the lesson - has remained deeply embedded in my memory. Not only have I never forgotten this fact, but it is one that has regularly come to mind over the years. Strangely I have no idea what the lesson was about, but the young teacher Miss Dawes told us about how China had ordered all of its citizens to go out and destroy any fly they encountered in a bid to rid the country of its persistently pesky fly population. Apparently it worked, virtually wiping them out as a species in the country.



I must have been seven at the time, but it made a huge impression on my young mind and the thought that if everyone worked together on the same task almost anything was possible captured my imagination. This simple message has stayed with me over the years, the thought that a determined and persistent focus on achieving a specific task, will eventually achieve something big, that might that otherwise have seemed impossible. No, I was not a precocious swat, I am sure I never thought of the information quite in those terms back then, but it did catch my imagination and has stayed with me. Before I continue make no mistake – I do not always succeed in practicing what I preach.

### Focus on perfection or innovation?

In many ways this combined clear sighted focus on a task or process is similar to the attitude one finds in Japanese, and many German companies, of making constant improvements and refinements to a product, no matter how small, resulting in supremely reliable products. A fanatical dedication to a specific goal. There are problems with this idea however, in recent months I have heard several dealers and employees of Japanese



C&A

scissor lifts



manufacturers lamenting at how slow product development can be, especially for new models. At the risk of committing a massive generalisation and falling for stereotypes, Italian - and sometimes the British - are extremely innovative when it comes to engineering, new ideas and concepts, but have not always been good at converting them into ultra-reliable or profitable products.

改善

*Kaizen Japan's fanatical continuous improvement has resulted in supremely reliable products*

Both points involve a longer term outlook and focus, compared to the short term gratification/profit that so many companies - or politicians - in many western countries tend to focus on. With some very noticeable exceptions of course.

### Shifting production centres

While looking at the scissor lift market I was surprised at just how dramatically and quickly it is changing, in terms of suppliers and major production sources. It was not so long ago that almost all scissor lifts were designed and built in the USA. Few European companies could generate the volume required to build them cost effectively or invest in the engineering and tooling required to compete etc...



*An increasingly large percentage of scissor lift are now built in China*



The Americans had the advantage of having 'invented' the self-propelled scissor lift, and thus having a head start, while also benefiting from a far greater openness in their home market to the adoption of new working methods.

It now looks as though China has become, or is rapidly becoming, the predominant production base for scissor lifts. Amazing when you consider that 15 years ago there was almost no local market or demand for such machines.

The change has been driven in part by a few increasingly successful Chinese manufacturers and by the number of American and European manufacturers shifting scissor lift production to their new Chinese, while others have succeeded by having branded products made by Chinese manufacturers to sell as their own. This is especially true of small slab electric scissor lifts, for example if you are looking at a 14ft micro scissor and do not want it to come from China, you have very little choice. This in turn has led to Genie and JLG teaming up to form the Coalition of American Manufacturers of Mobile Access Equipment - of which they are the only members - and petition the United States International Trade Commission to investigate their claim that US manufacturers are being harmed by Chinese manufacturers 'unfair' pricing practices, assisted by state subsidies or support.

**More big scissor lift players**

The growth in Chinese produced machines on the world stage is not new, but over the past 12 months it has taken on a new and surprising turn, with European and North American buyers now beginning to take larger models. The received



*Chinese manufacturers are moving into the large scissor lift market*

wisdom has always been that western buyers were prepared to 'take a punt' with a \$6,000 micro scissor lift but would never consider risking a larger single unit investment on a Chinese built platform - or crane for that matter. Now however not only are Chinese Rough Terrain scissors becoming increasingly popular in both Europe and the USA, but manufacturers such as Dingli are making substantial inroads into the big heavy duty narrow aisle scissor lift market, traditionally dominated by Dutch and German manufacturers. With prices in the €100,000 to €150,000 range per unit, the likelihood of a European rental company selecting a Chinese supplier for such big machines was close to zero. That is changing, particularly in the UK where Dingli has probably taken market leadership, in what has become a rapidly growing market for 'ultra scissors'.

The change has probably been spurred on by traditionally long lead times from the market leaders, coupled with the spike in demand. This spike has been fuelled in part by the growth in the construction of high stack warehouses, driven by



*Dingli is leading the charge in the 'ultra scissor' lift market*

the rapid shift towards online shopping during the pandemic, not to mention border and shipping challenges. Over the following few pages, we will look at this market along with other new products, from the smallest to the largest.

Oh, and by the way - I now know that China's 'fly initiative' was actually part of its 'Four Pests Campaign' in Chairman Mao's first Great Leap Forward from 1958 to 1962. The four pests to be eliminated were rats, flies, mosquitoes, and... sparrows. Maybe the inclusion of sparrows caused it to stick in my mind all these years? I think I would have remembered that though, but no, I

just remember the flies. Interestingly, the sparrows were dropped from the initiative in 1960 having been driven towards extinction. This was after their absence as a predator led to plagues of locusts the following year, which in turn contributed to the great famine. Their place was taken by bed bugs. And as for Miss Dawes another of her lessons that stayed with me included her extolling the virtues of Los Angeles: "Imagine this is a city built for the motor car, with roads in the sky. It is the future." Barely a decade later the increasingly heavy smog made her pronouncement a less attractive vision of the future.



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# Dingli braves the high and narrow



Dingli has had a strong reception for its two 66ft heavy duty scissor lifts since last year's launch



The 66ft Dingli JCPT2223DC Rough Terrain

Last spring, leading Chinese manufacturer Dingli launched two 66ft heavy duty battery powered scissor lifts. The 2.3 metre wide JCPT2223DC is an electric version of the classic diesel RT model but with a tight narrow scissor stack. This allowed it to be used on the 1.25 metre wide slab electric JCPT2212DC narrow aisle version. As a result, Dingli is possibly the first manufacturer outside of the Netherlands or Germany to enter this ultra-niche corner of the scissor lift market.

The decision has clearly been a good one with the company already shipping a couple of hundred units during the first year of production. There has also been a 50/50 split between classic wide RT and the narrow aisle model, which is surprising given the niche nature of the heavy duty high narrow scissor market. To put in perspective the total annual production of such narrow monster machines is typically in the 400 to 450 unit range.

Given the success of its 22 metre models, the company has now ventured further with the launch of two new heavy duty narrow aisle electric models, the 86ft JCPT2814DC and 99ft JCPT3214DC, which offer working heights of 28 and 32 metres respectively. The two machines share most of the same componentry but feature different scissor stacks, with the JCPT3214 gaining its extra height from slightly longer arms, rather than the addition of another stack. Both share an overall width of 1.39 metres, with a maximum unrestricted platform capacity of 600kg, rated for two people.

One difference between the two

machines, aside from platform height, is the overall length – a by-product of the longer scissor stack on the larger machine. The JCPT2814 is 5.69 metres long, while the JCPT3214 is 6.41 metres. Dingli has also installed a longer deck on the 32 metre unit, in order to cover the longer scissor pack. That may seem obvious, but it has not always been the case. The retracted deck lengths are 5.08 metres on the JCPT2814 and 5.85 metres on the JCPT3214. Both offer the same 1.9 metre roll out extension with no capacity restrictions or limitations. The overall weight of each machine is 18,060kg and 22,200kg respectively, and the stowed height with the guardrails folded is 3.17 metres. The fact that they are the same in this respect is another benefit of the longer scissor arm solution.

### Direct electric drive & lithium differentiation

The new machines share the 4x4 AC electric wheel motor drive, as well as four wheel steer, standard levelling jacks and the ability to drive at full height. However make no mistake, as with all other products of this type, these are slab machines – not Rough Terrain, in spite of the 4x4 drive. The



The new 86ft Dingli JCPT2814DC

new models use an 80 volt/520Ah lithium-ion battery pack, rather than the 48 volt/620Ah full traction lead acid battery pack on the company's 22 metre models. The pack is said to be good for a full shift and then some. Gradeability is 25 percent, and the units need to be within one percent of level in order to elevate the platform.

The new Dinglis compete directly with Holland Lift's market leading HL-285 E13 4WDS/N and HL-330 E14 4WDS/N models which offer similar working heights, overall widths, and weights. The Holland Lift HL285 has a 750kg platform capacity however, while the HL330 offers 600kg. The Holland Lifts also have slightly longer

deck extensions at 2.2 metres, but other than that, they are surprisingly similar, at least on paper.

One major difference though is the drive train, Holland Lift prefers to stay with full traction lead acid battery packs and hydraulic wheel motors. The company says that the power draw required by the four electric wheel motors on such a heavy machine – they weigh more than 20 tonnes – can cause complications and battery life issues, thus the need for lithium batteries and 80 volt system. The lithium battery pack is also much lighter and requires additional counterweight to compensate, but this can be added at the lowest point of the machine, which might have some centre of gravity benefits? Holland Lift and some other manufacturers, such as Snorkel, cite the additional



The Holland Lift 285 E13 4W

challenges that can be involved for service engineers dealing with the higher voltages, with anything under 60 volts falling into the less onerous low voltage category.

### A widening market

Until now the main market for this type of machine has been in the Netherlands and Germany – where Dingli also markets its lifts under the Magni brand. In the past year or so demand for high narrow scissors has also been growing in the UK, which has taken a good number of the 65ft/22 metre models. North American rental companies are also beginning to take a keen interest in larger scissor lifts, with 53ft having traditionally been the highest machines built locally and therefore sold. The interest in larger models is almost certainly due to the number of high rise warehouses being built or planned, which is also the case in the UK. In the USA this demand is already reflected in the recent introduction of several 60ft plus Rough Terrain machines from North American manufacturers, including Skyjack's all new 64ft SJ9664 RT, Snorkel's new 70ft S9070RT-HC - currently

the largest scissor lift built in the USA - and the older MEC 6092RT Ultra Deck. GMG is breaking the mould with its new 6094-ERT, which also happens to be lithium battery powered with AC wheel motor drive. Expect to see a battery electric version of Skyjacks new 64ft machine in the not too distant future.

The first units of Dingli's new narrow machines have already left the factory for European destinations and will be available for sale in the fourth quarter. The following charts show how the new models stack up against the existing products.

Skyjacks 64ft  
SJ9664RT



### 28m Narrow Aisle models

Make Model	Dingli JCPT2814 DC	Holland HL-285 E13 4WDS/N	AB S 280-12 E4WDS AC	PB S275-18ES 4X4
Work height	28m	28.2m	28m	27.5m
Platform capacity	600kg	750kg	600kg	900kg
Platform length - base	5.1m	5.21m	5.1m	6.15m
Platform extension	1.9m	2.2m	1.9m	2.25m
Platform length - extended	7.0m	7.41m	7.0m	8.4m
Drive height	Full ht	Full ht*	Full ht	Full ht
O/A width	1.39m	1.32m	1.25m	1.8m
O/A length	5.69m	5.6m	5.55m	6.6m
O/A height stowed	4.16m	4.1m	4.2m	4.22m
O/A height - rails down	3.17m	3.21m	3.2m	3.27m
Gross weight	18,060kg	19,370kg	15,950kg	23,000kg

### 32m Narrow Aisle models

Make Model	Dingli JCPT3214 DC	Holland HL-330 E13 4WDS/N	AB S 320-12 E4WDS AC	PB S320-18ES 4X4
Work height	32m	33.05m	32.4m	32.14m
Platform capacity	600kg	600kg	600kg	750kg
Platform length – base	5.85m	5.21m	5.48m	6.15m
Platform extension	1.9m	2.2m	1.9m	2.25m
Platform length - extended	7.75m	7.41m	7.35m	2.25m
Drive height	Full ht	Full ht*	Full ht	Full ht
O/A width	1.39m	1.4m	1.39m	1.8m
O/A length	6.4m	6.6m	6.42m	6.6m
O/A height stowed	4.16m	4.1m	4.2m	4.33m
O/A height - rails down	3.17m	3.21m	3.2m	3.32m
Gross weight	22,200kg	23,950kg	21,500kg	24,220kg

\*Optional



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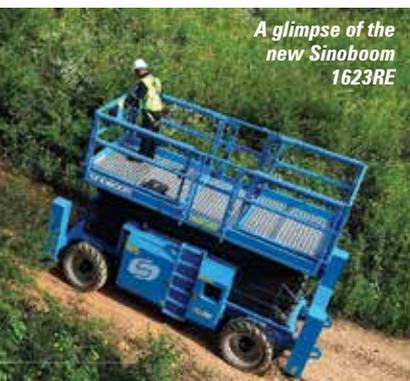
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# New product round up

This year has seen several additions to the full size Rough Terrain scissor lift market, some of them all electric, such as Haulotte's new Pulseo and GMG's 60ft 6094ERT, which we covered in the January issue. We will now take a brief look at other new models to have hit the market since then.

## 53ft Sinoboorm RT on the water

China's Sinoboorm is planning to launch an all new 53ft 1623 full size Rough Terrain scissor lift this autumn, with a choice if either 'RD' diesel or 'RE' battery electric power. The new machine features an 18 metre working height with 680kg/ four persons platform capacity and 4x4 AC electric wheel motor drive. Details of the new machine have not yet been released, but we do have the basic specifications. The chart below compares the new machine with the some of the leading Rough Terrains already on the market.



A glimpse of the new Sinoboorm 1623RE

## New Holland Lifts

Holland Lift has been working on a number of new models and adding updates to its range. The company may unveil some of these at Vertikal Days, along with a new distributor, but is keeping tight lipped about them. One thing it has stressed however is that it will maintain its current electro/hydraulic drive train on at least its larger models. On the new development front, it mentioned electric versions of its 65ft/2.5 metre wide Rough Terrain model, which becomes the HL-220 E25 4WD/P/N with 750kg platform capacity, and the 82ft HL-275 E25 4WD/P/N with 1,000kg platform capacity.



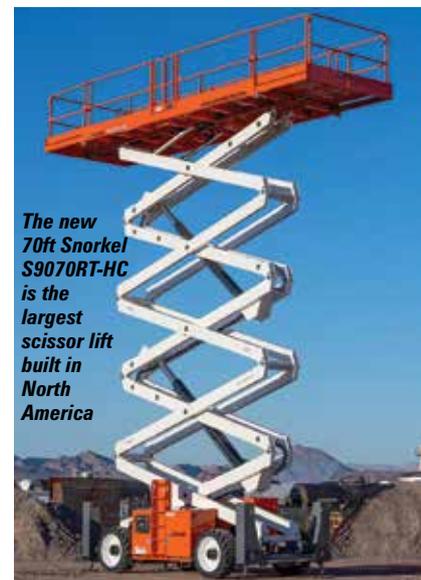
The new HL-220 E25 4WD/P/N from Holland Lift



Imer IM17220E

## Snorkel's mega machines

Snorkel unveiled prototypes of two new top of the range full size plus Rough Terrain scissor lifts at Conexpo last year, the 56ft S9056RT-HC and the 70ft S9070RT-HC with high platform capacities. The S9056 offers a platform capacity of 1,134kg and a working height of 19.1 metres, while its 70ft big brother has a generous 907kg with a working height of 23.3 metres. Not only do these new machines offer big capacities, but the dual deck option provides an extended platform of 8.23 metres. Despite this, the big units have stowed dimensions that are not too dissimilar to the regular 53ft machines, with an overall length of 4.87 metres, an overall width of 2.28 metres and an overall height of 3.09 metres folding to 2.1 metres. Maximum drive height is 13.1 metres, but they are of course considerably heavier - you cannot escape physics - at 9,030kg and 11,600kg respectively. The units have a very high standard specification and are now ready for delivery.



The new 70ft Snorkel S9070RT-HC is the largest scissor lift built in North America

## And its new lithium range

Snorkel has also started manufacturing its new lithium Rough Terrain scissor lifts, seen as prototypes at Conexpo last year. The new RTE models include the 1.4 metre wide 22ft S2255RTE and 27ft S2755RTE scissor lifts, plus the 1.8 metre wide 27ft S2770RTE, 33ft S3370RTE and 39ft S3970RTE. The machines join the two lithium battery powered Speed Levels unveiled at Bauma 2019. The new machines feature two 5.75kWh lithium-ion battery packs, with built-in battery management systems, which the company claims delivers at least eight hours operation on a single charge, and up to a week between charges for lighter usage. An third optional 5.75kWh battery pack can also be easily retrofitted thanks to spare space within the battery cabinets. 4X4 direct electric wheel motor drive, and oscillating axle, automatic levelling jacks and non-marking tyres are all standard.

## How do the new 53ft models stack up?

Make Model	Sinoboorm 1623E/D	Haulotte HS18EPro	Skyjack SJ9253RT	JLG RT5394	LGMG SR1623D	Zoomlion ZS1623RT	Genie GS-5390
Work height	18.2m	19m	18.15m	18.15m	17.9m	18m	17.95m
Platform capacity	680kg	750kg	680kg	680kg	680kg	680kg	680kg
Platform length	3.96m	4.94m*	4.36m	3.8m	3.98m	3.98m	3.98m
Platform extensions	1.5m+1.2m	1.28m x2	1.52m x2	1.22m x2	1.45+1.14m	1.3m x2	1.52+1.22m
Platform length - ext.	6.66m	7.5m*	8.3m	6.2m	6.57m	6.58m	7.38m*
Drive height	Full ht	13m	10.06m	9.75m	8.5m	9m	9.14m
O/A width	2.28m	2.3m	2.3m	2.31m	2.3m	2.3m	2.29m
O/A length	4.88m	4.4m	4.42m	4.9m	4.9m	4.88m	4.88m
O/A height stowed	3.21m	3.25m	3.19m	3.07m	3.18m	3.16m	3.15m
O/A height - rails down	2.44m	2.36m	2.4m	2.36m	2.5m	2.47m	2.47m
Power	Electric or Diesel	Electric	Diesel	Diesel	Diesel	Diesel	Diesel
Gross weight	9,250kg#	8,048kg	8,100kg	7,712kg	8,100kg	8,650kg	7,926

#Without outrigger option \*XL/Superdeck platform option



### The opposite end of the market

From the sublime to the ridiculous perhaps? We take a brief look at an all new entrant to the low level market, the Italian built AxoLift, which goes head to head with JLG's Pecolift/Ecolift products. OK it is not a scissor lift, but most type lifts along with scissors simply go up and down, so whether the lift has a scissor stack, a sigma lift mechanism or a mast, it does exactly the same job.



Axolift's new Manulift

AxoLift is the brand adopted by well established northern Italian fabrication company Gromet. The family owned company has traditionally made fabrications for others and as such is equipped with the latest cutting, bending, and robot welding equipment, allowing it to produce a high percentage of its new lifts in house – a distinct advantage in these times of supply issue challenges. The company has set up a dedicated assembly and testing facility for the AxoLift products on the other side of its home town of Veneto, northern Italy and is now launching the first two models, the manually operated Manulift and battery powered push around eLift.



The Manulift has a 4m working height

At first glance you might think 'Power Towers Pecolift/Ecolift copy!' does that mean patent or copyright issues? This is not the case, the Manulift uses a different internal lift mechanism that does not involve a gas spring, just a few more turns of the crank. In fact, the company has taken out two of its own patents on the new products, with further models planned. Here is how these two compare with the JLG equivalents.



The Axolift Elift has battery powered lift to almost 5m

### How does the AxoLift models stack up?

Brand Model	AxoLift Manulift	JLG/Power Towers PecoLift	JLG Ecolift 70	AxoLift Elift 350	JLG/Power Towers 830P
Working ht.	4.0m	3.5m	4.2m	4.95m	4.3m
Platform cap.	110kg	150kg	150kg	180kg	150kg
Stowed ht.	1.67m	1.55m	1.93m	1.74m	1.56m
O/A width	770mm	700mm	700mm	750mm	750mm
O/A length	1.16m	990mm	1.28m	1.16m	1.19m
Weight	249kg	180kg	305kg	355kg	285kg

Spec for spec they offer an interesting alternative. Perhaps with long lead times for the JLG models, the company's timing may well be ideal?

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# Vertikal days

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The Vertikal guide  
for buyers and  
users of lifting  
equipment

22nd-23rd  
September 2021



Cranes, Access  
Platforms,  
Telehandlers...  
and everything  
in between



# READY FOR THE BIG EVENT

Vertikal Days is back on the calendar and raring to go on 22nd and 23rd September at its new venue, the East of England Arena & Showground in Peterborough.

**Almost 30 months after the last event was held, the excitement is almost palpable as the lifting industry is finally able to safely come together to see the latest products and developments, with rental companies, major contractors, utility companies, and all manner of end users registered to attend.**

After the Covid-19 outbreak forced Vertikal Days and other major exhibitions to be postponed or cancelled, this year's show is set to play host to the largest, most diverse collection of lifting equipment to be on public display since Conexpo last March. So prepare to see a large number of brand new products and innovations making their European or UK debuts, while meeting new people and discussing all the changes that have occurred in the past couple of years.

#### **Covid considerations**

By the time the show opens nearly 90 percent of the adult population

in the UK will be fully vaccinated, however the show organisers are taking a cautious approach. The move to the East of England Showground in Peterborough has proven to be a lucky choice, given that it has gained a huge amount of experience through successfully holding large live events during the pandemic last summer, and having also worked within the Covid-19 restrictions as a partner with Public Health England, which has a major testing station on site.

The venue also benefits from having a larger open area showground than previous locations, making it far easier to maintain a decent social distance, while also retaining an open, friendly atmosphere that visitors have come to expect from Vertikal Days. An atmosphere in which visitors have the time and space to talk with exhibitors and discover the latest products on offer from more than 150 manufacturers and suppliers.

Add to this the fact that almost every visitor shares a common interest and the opportunities for networking will hopefully go some way to make up for the challenges of the past 18 months.

#### **Show times and details**

As in previous years everything during the day is complimentary for visitors, including parking, admission, the various refreshments and lunch. Located centrally within the showground, the Marketplace Pavilion is almost a show within a show and will include an even more comprehensive mix of companies displaying the very latest in ancillary products, technology and services related to the lifting industry. It will also feature the main café serving coffee and tea all day – a great place to network or simply sit for 10 minutes to digest, not only the complimentary pastries, but the host of equipment and services on offer. Lunch will be served as usual each day from 12:30-14:30 in the

Catering Pavilion, located at the top of the showground. Our popular free range hog roast (and vegetarian alternatives) will once again be a star attraction, alongside the barbecue and sandwich bar.

#### **Networking and hotels**

The Networking event (ticket required) will be held at the Catering Pavilion and immediate outside area on Wednesday evening from 18.00- 20.30, with exhibitors and guests able to catch up, discuss the show with great music, food and cocktails. The event has been kindly sponsored this year by Access Platform Sales and partners Hinowa, LGMG and Boss.

Hotel rooms within a five mile radius are plentiful, although we would recommend you book now if you have not already done so.

So, without further ado, the following guide provides a round-up of every exhibitor, brand and the equipment that will be on display.





**Lunch Menu**

- Slow roasted hog roast
- Quorn pulled pork (v)
- Sage and onion stuffing
- Homemade apple sauce
- Crisp country salad (v)
- Luxury deli style coleslaw (v)
- Rustic new potato salad (v)
- Spierings' artisan cheese board

**Plus -**

- Barbeque – Burgers & Sausages
- Sandwich station
- Refreshments

**Show Information**

**Venue:** East of England Arena and Events Centre, Peterborough, PE2 6XE, UK

**Show times and dates:**

Wednesday 22nd September 10:00 to 17.30

Thursday 23rd September 10:00 to 16.00

**How to register**

- Pre-register: [www.vertikaldays.net/visitor](http://www.vertikaldays.net/visitor) and print visitor badge
- Queue in line and register upon arrival

**Networking event** (ticket required)

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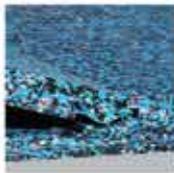
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## Access Equipment & Telehandlers

### Access Platform Sales (APS): Stand 400

This will be the first show for APS since it took on the LGMG distribution, and as such it will launch LGMG's new range of scissor and boom lifts. It will also have a number of Hinowa spider lifts on show, including the company's flagship 33 metre Hinowa 33.17. Be sure to check out the launch of the new BoSS PA-lift - set to replace the BoSS X3 and BoSS X3X push around lifts - as well as its Wienold material lift range.

### Access Sales International (ASI): Stand 408

Ruthmann truck mounted lift distributor ASI will showcase the recently redesigned 30 metre T 300 XS truck mounted platform, which is said to be the most compact model on a 7.5 tonne chassis. It will also have the 51 metre T 510 HF on the stand, offering one of the best height working heights on an 18 tonne chassis. The model will also be fitted with a material handling/

APS will exhibit a range of products alongside Hinowa spiders



lifting attachment.

### Ad Astra Equipment: Stand 408

See: Access Sales International

### AFI UpLift: Stand 509

See: AJ Access Platforms

### AJ Access Platforms: Stand 509

New and used equipment sales company AJ Access has been appointed as the UK distributor for Zoomlion Access. It will launch the full range of Zoomlion slab electric scissor lifts, ranging from a 15ft ultra compact to a 45ft 1.2 metre wide model. The company will also



Ruthmann's 'Xtra Short' T 300 XS



AJ Access is now the UK distributor for Zoomlion



Alfa will showcase the heavy duty Omega 612TS tracked scissor lift

talk about the boom lift range, due to arrive in 2022, and highlight its after sales services.

**Alfa Access Services:**  
Stand 403-5

Alfa will display a number of all new products on its stand, including the all new 19ft EL19 all electric scissor lift from Turkish manufacturer ELS Lift and Teupen's 39 metre Leo 39GT spider lift, which is making its UK debut. From Dutch platform specialist Omega Solutions, it will feature the 27ft 612TS tracked scissor lift which offers a 10.2 metre working height, a 7.2 dual deck platform length and a 1,250kg capacity. Finally, the company

will feature Almac's MultiLoader 6.0 and its Jibbi 1670 Evo tracked boom as well as announcing a new partnership with Turkish electric vehicles manufacturer Pilotcar.

**Alimak:** Stand 604

Alimak will showcase its Scando 650 XL construction hoist, which offers a number of large car sizes and capacities up to 3,000kg. This will also be shown alongside its MC 450 mastclimber work platform and TPL 500 transport lift.

**Almac:** Stand 501

After setting up its UK subsidiary Almac Atlantic earlier this year, the company is excited for the world



The world premiere of Almac's B1890 Spiderboom

premiere of its 18 metre B1890 EVO Quick-Pro Billennium Spiderboom. This will be on show next to the new ultra-light 43ft Jibbi U-1570 tracked boom lift, which combines a Multitel boom with Almac's bi-levelling undercarriage. It is also expanding its MultiLoader range with the addition of an all new three tonne ML 3.0 FX tracked carrier.



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CLM will have a number of Maber hoists on show

**Avant UK:** Stand 216

Avant will have two new spider lifts on show in the form of the 13.4 metre Leguan 135 Neo and the newly updated 19 metre Leguan 190, which is now available for the European market. It will also have an all electric 900kg/2.8 metre e6 wheel loader which is powered by a 48 volt lithium-ion battery pack said to fully charge in just an hour.

**Bizzocchi:** Stand 101

See: CTE UK

**Bluelift:** Stand 104-5

See: Snorkel UK

**Böcker UK:** Stand 111

Be sure to check out a number of Böcker's trailer mounted inclined lifts alongside its growing range of aluminium boomed truck, tracked and trailer cranes - details of which can be found in the cranes and lifting section of the guide.

**BoSS:** Stand 400

See: APS

**Bravi Platforms:** Stand 401

Italian aerial lift manufacturer Bravi will have its newly upgraded ANSI A92.20 compliant 10ft Leonardo HD mast lift. Weighing just 560kg, it offers a working height of 4.9 metres with a 180kg platform capacity. New features include a telematics system, full CAN bus connectivity and an oil-leak protection system.

**Briggs Equipment:** 410

See: Hitec Lift Trucks

**Bronto Skylift:** Stand 607

Bronto Skylift will have three truck mounted platforms on display at

the show. The smallest is its 35 metre S35EM 'Baby Bronto', which has been mounted on an 18 tonne chassis to offer a 29 metre outreach and a maximum platform capacity of 500kg. The unit will be joined by a 47 metre S47XR, which has been fitted with an extendable platform basket and a 150kg material handling attachment, as well as a 70 metre S70XR.

**Cela:** Stand 409

See: Euraccess

**CLM:** Stand 503

CLM will have two of its most popular Maber rack and pinion hoists on show with its MB C 2000 and MB C 2300. The MB C 2000 can lift loads up to 2,000kg on a single mast, while a fully opening C-Door allows for the loading of large building components at ground level.

**CMC:** Stand 311

See: Tracked Spider Sales

**CPL:** Stand 504-5

Subsidiary of French van mounted manufacturer Klubb, CPL will demonstrate the new lightweight KT range of telescopic booms available on a 3.5 tonne van chassis. It will also be debuting several new designs and features on its fully type approved Renault Master van mounted lifts and, as the distributor of Palfinger's full range of truck mounted platforms, will also showcase the 13 metre Palfinger P130 on an Isuzu and Toyota chassis.

**CTE UK:** Stand 101

CTE UK plans on keeping its 'powder dry' until the show but expect a



CPL will showcase its Palfinger P130 on a pick up chassis



surprise or two, including the possible UK debut of a new model which will feature alongside its range of truck mounted and spider lifts.

**Dingli:** Stand 602

Dingli could well take the award for most new products on its stand, with both diesel and electric versions of its new telescopic and articulated boom lift range, as well as its new full sized Rough Terrain and narrow aisle scissor lifts.

**Easy Lift:** Stand 213

See: Independent Access Sales

The battery powered 65ft JCPT2223DC RT scissor lift from Dingli



Alfa will auction off a special ELS 5.5 SP with 25 percent going to charity

**Electroelsa:** Stand 402  
First time exhibitor, Italian mast climber and hoist manufacturer Electroelsa will showcase its one tonne ELSA PM10 and two tonne ELSA PM20 hoists, alongside its ELSA P40 mast climber platform and its A03 tower crane lift.

**ELS Lift:** Stand 403-5  
See: Alfa Access Services

**Euraccess:** Stand 409  
The UK distributor of Cela truck and spider lifts will be on hand with a number of its models, but it will also be announcing its new distribution partnership with Holland Lift.

**Faresin GGR:** Stand 201-2  
GGR has taken a second stand to display the range of Faresin telehandlers. This will include the new all electric 6.26, which is proving highly



Check out the all electric Faresin 6.26 telehandler on the Faresin GGR stand

**GSR's B220PXE with end mounted basket is well suited for roofers**



Genie will have its new GS-1432m and GS1932m micro scissors



popular since its arrival in the UK. It will also have a number of diesel models offering lift heights of six, 14 and 17 metres.

**Geda:** Stand 502

See: Mace Industries

**Genie UK:** Stand 206/306

Genie is another company with a host of new models, including the 14ft GS-1432m and 19ft GS-1932m micro scissor lifts launched this year, and the narrower 40ft GS-4046 slab electric scissor lift. All three come equipped with Genie's new AC direct electric E-Drive system which is said to delivery up increased run times and reduced maintenance costs.

**GSR:** Stand 600

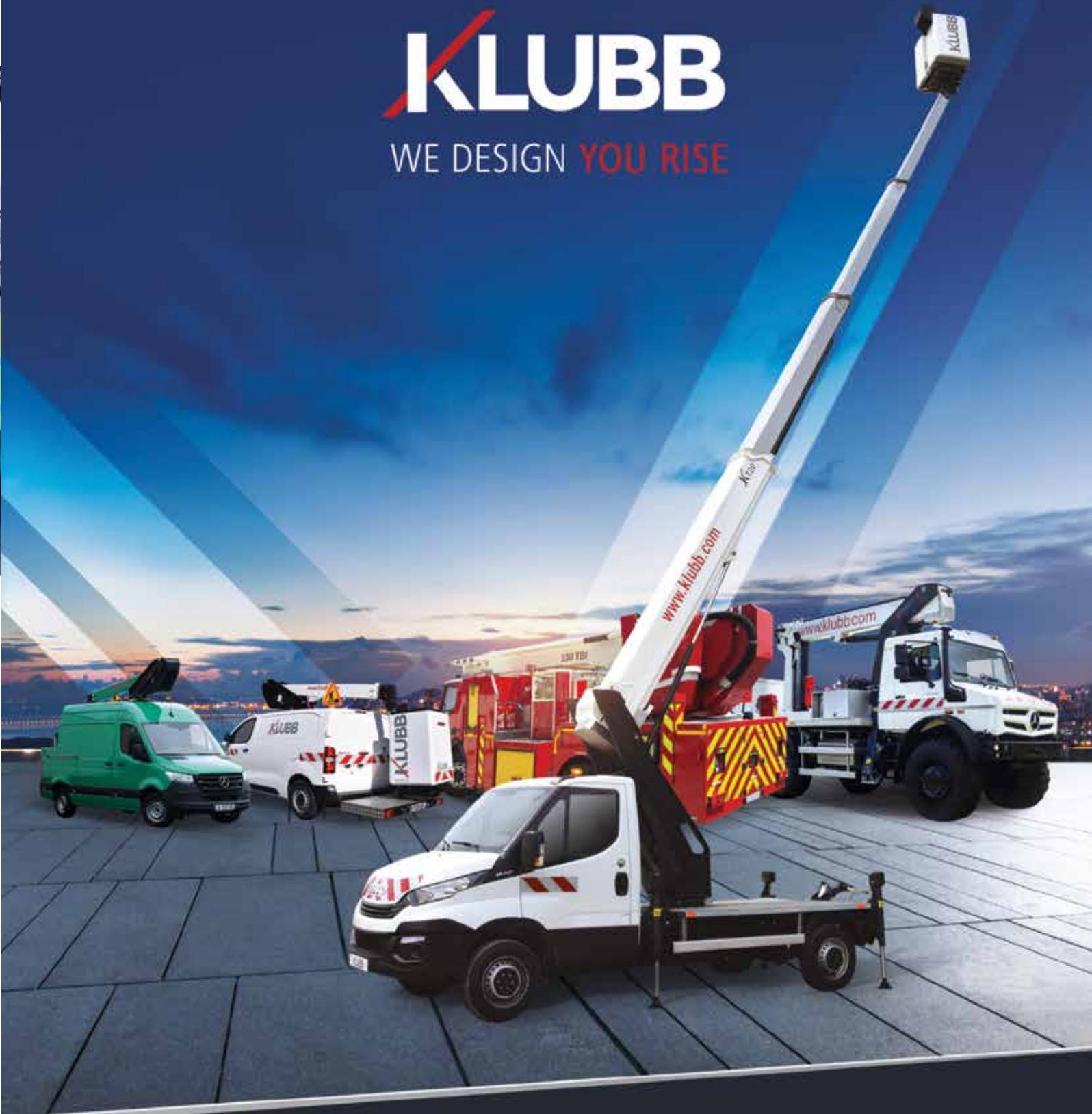
Models making their debuts on the GSR stand include its 21 metre B210PXJ articulated truck mount on a 3.5 tonne Mercedes Sprinter chassis, its 22 metre B220TJ telescopic truck mount that now features an articulated jib and its newly updated PX/PXE range, which includes the 22 metre B220PXE with an end mounted basket.

**Haulotte:** Stand 102

Haulotte will be another stand brimming with new products, the latest being its all new Pulseo HS18E-Pro electric Rough Terrain scissor lift and its all electric 46ft

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*Haulotte's all electric 46ft Sigma16 Pro is making its UK debut*

Sigma16 Pro articulated boom lift - both of which will be making their UK debuts. It will also be showcasing its full range of Activ' technologies as well as its Sherpal telematics system.

**Hinowa:** Stand 500

The market leading spider lift manufacturer partners with APS in the UK, but will have its own stand dedicated to its latest models including the top of the line 33 metre Hinowa 33.17

**Hird:** Stand 304-5

After being named Oil&Steel distributor last year, Hird will look to

reintroduce the brand back in to the UK after being absent for a number of years. It plans on exhibiting a 20 metre Snake 2010 H Plus and a 19.9 metre Scorpion 2013 truck mounted platforms both on 3.5 tonne Iveco chassis. It will also have a number of Manitex Valla pick and carry cranes and Winlet vacuum robots on show.

**Hitec Lift Trucks:** 410

As well as being the distributor of Hyster forklifts and material handling devices, Hitec Lift Trucks offers a wide range of cleaning equipment, specialist warehouse products,



*Hird to reintroduce the Oil&Steel brand in the UK after being absent for a number of years*

access equipment for rent or sale as well as product support services from its location in Wellingborough.

**Holland Lift:** Stand 409

Holland Lift will relaunch its heavy duty mega scissor lift range in the UK with newly appointed distributor Euraccess, headed by Richard Onslow.

**Imer:** Stand 301

Imer is set to have a busy stand with models from its mini and slab electric scissor lift range. These include its 10.5ft Easy Up 5 SP, 19ft IM 5980 MC - with side deck



*The 19ft Imer IM 5980 MC with side deck extension*

extension - its 39ft IM 12090 and fleet topping 45ft IM 14122 models, offering 5.2, 7.8, 14, and 15.9 metre working heights respectively. It will also have a number of its spider lifts on show, including its 19 metre diesel IM R19 SA and its latest 15 metre lithium-ion IM R15 DA, which is the company's first spider to feature a dual sigma type riser.

**Independent Access Sales:** Stand 213

Newly appointed Easy Lift distributor, I A Sales will bring a selection of spider lifts from across its range. These will include the compact 13 metre R130, which weighs just 1.7 tonne, the 18 metre RA180 and the 31 metre RA31. The company has also been working



*Hinowa will have its range topping 33 metre 33.17 spider lift*

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The all new JCB 555-210R  
360 degree telehandler

with Multitel UK to introduce the first large Multitel to arrive in the UK in a number of years. Located on the Multitel stand, the 45 metre MJ 450 has been built specifically with the UK market in mind.

**IPAF:** Stand 619

The International Powered Access Federation (IPAF) will look to highlight the main causes of serious injuries and fatalities when using powered access following the recent publishing of its Global Safety Report.

**Isoli:** Stand 400

See: Access Platform Sales

**JCB:** Stand 406/506

Be sure not to miss JCB's stand which will have not one but two telehandlers making their world debuts! The first is its all new fully electric 2.5 tonne/six metre 525-60E compact telehandler, which will sit alongside its all new 5.5 tonne/20.5 metre 555-210R 360 degree model. It will also be showcasing five of its electric scissor lifts plus a number of its power pack options.

**Klubb:** Stand 504-5

See: CPL

**Leguan Lifts:** Stand 216

See: Avant UK

**LGMG:** Stand 200/300

LGMG is now working with APS but also has its own presence and will display a range of models from its



LGMG will have its full line up of scissor lifts and a number of boom lifts

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Magni's new six tonne/10 metre TH 6.10 telehandler

full line, including slab electric scissors, heavy duty and Rough Terrain scissors and boom lifts which it has only recently started delivering to customers in the UK.

**Maber:** Stand 503

See: CLM

**Mace Industries:** Stand 502

Portable conveyor supplier and Geda distributor, Mace will be demonstrating a wide range of Gedahoists. These will range from the lightweight 200Z material hoist right up to the heavy duty Multilift P12 material and passenger hoist which can handle up to 1,500kg to heights of 150 metres. It will also have

its 2 PK tower crane hoist on show next to a Bumpa roof tile hoist.

**Magni UK:** Stand 601

Never one to disappoint, Magni will debut its heavy duty six tonne/10 metre TH 6.10 fixed frame telehandler - announced at the start of the year - that features the same technology as its 360 degree telehandlers. From this range it plans to bring one of its larger models in the form of its six tonne/39 metre RTH 6.39.

**Multitel Pagliero:** Stand 606

Showcasing its 3.5 tonne range of truck mounted platforms, Multitel will exhibit its 19.9 metre HX 200 EX, 21.1

*Multitel will introduce the first large truck mount to the UK for many years*



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*Niftylift's battery powered HR17N will make its UK debut*

metre MJ 201, 25.1 metre MZ 250 models. It will also have one of its larger truck mounted platforms on show, a 45 metre MJ 450 specified for the UK market. Mounted on a 26 tonne chassis, it offers a maximum outreach of 32.3 metre with a platform capacity of 120 kg, 30.3 metres with 300kg and 26.7 metres with its maximum 500kg capacity.

**Nagano:** Stand 215

See: *Vertimac*

**Niftylift:** Stand 312

Niftylift will highlight its range of Stage V Hybrid and all electric

articulating boom lifts, with a particular focus on its latest technology, including telematics and lithium battery power and electric drive – all highlighted on the new 50ft HR17N.

**Oil&Steel:** Stand 304-5

See: *Hird*

**Omega Solutions:** Stand 403-5

See: *Alfa Access Services*

**Ommelift:** Stand 400

See: *APS*

**Palfinger Platforms:** Stand 504-5

See: *CPL*



*The 35ft RX12CS tracked telescopic boom lift from Rhinox*



*Sinoboom's 1932ME scissor lift is proving popular in the UK*

**Platform Basket:** Stand 407

See: *Promax Access*

**Pop-Up:** Stand 104-5

See: *Snorkel UK*

**Promax Access:** Stand 407

Platform Basket's UK distributor will be looking to demonstrate the latest addition to the manufacturer's 'Rail Boom' range with the all new 25ft RR 9/200 articulated tracked boom lift. This will be shown alongside a number of its traditional spider lifts, including a 20 metre Spider 20.95 Hybrid and a 33 metre Spider 33.15 with a 250kg material handling attachment. There is also a chance that it will bring the company's fleet topping 43 metre Spider 43T.

**Rhinox:** Stand 203

Established last year, Dutch manufacturer Rhinox will be looking to attend Vertikal Days for

the first time with its 35ft Rhinox RX12CS tracked telescopic boom lift. Weighing 5,500kg, it offers a working height of 12.6 metres, an outreach of 8.4 metres and an unrestricted platform capacity of 330kg. It can travel/operate on side slopes of up to five degrees, while features include a heavy duty three section octagonal boom, 360 degrees continuous slew and a secondary guarding system.

**Ruthmann:** Stand 408

See: *Access Sales International*

**Ruthmann Bluelift:** Stand 104-5

See: *Snorkel UK*

**Sinoboom:** Stand 605

After setting up a new European subsidiary in 2020 and then appointing UK's Pinnacle Platforms earlier this year, the company will have a wide selection of its of



*Platform Basket's RR9/200 tracked 'rail boom' will be on the Promax stand*

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electric scissors on show. This will include the company's 19ft 1932ME slab electric scissor lifts which has enjoyed a lot of success in the UK since its introduction. The company will also have an all-electric articulated boom lift on show alongside an electric mast boom.

**Sky Aces:** Stand 504-5

See: CPL

**Skyjack:** Stand 100

Skyjack will need every inch of its stand to accommodate its latest products. This will include the new 14ft SJ3014 micro scissor lift as well as its all new and updated articulating and telescopic boom lifts launched earlier this year. It will also have its new full size SJ9233/43/53 and SJ9664 RT Rough Terrain scissor lifts, which have recently replaced its 88 series to offer increased platform heights and increased capacities.



Snorkel's 27ft S2755RTE and 39ft S3970BE Rough Terrain scissor lifts will be on show

**Snorkel UK:** Stand 104-5

Vertikal Days will see the launch of Snorkel's new range of lithium-ion powered aerial work platforms and telehandlers, including at least one world and European premiere. These include the 27ft S2755RTE and 39ft S3970BE Rough Terrain scissor lifts, alongside the battery powered SL30RTE Speed Level. It is also a good opportunity to ask about other all electric models it is working on, as well as about the new 210ft S100SJ boom lift, now entering production.

**Socage:** Stand 508

Italian aerial lift manufacturer Socage continues to upgrade its range of truck mounted platforms with the addition of its Speed automatic levelling system. Two models showcasing this technology include its 19.3 metre articulated forSte 20D Speed and its 19.7 metre telescopic 20TJ Speed. Both models will be mounted on 3.5 tonne Iveco Daily chassis.

**Spider Ops:** Stand 510

First time exhibitor, Spider Ops was appointed the official distributor of Teupen spider lifts within the UK this year. As well as offering parts,

servicing and thorough examination/ LOLER requirements, the company also provides experienced spider lift operators and drivers to rental companies and end users throughout the UK.

**Teupen:** Stand 510 & 403-5

See: Alfa Access Services

See: Spider Ops

**Tracked Spider Sales (TSS):** Stand 311

Since being appointed the UK distributor of CMC spider lifts in 2019, TSS has grown from strength to strength. The event will

see a number of new spider lifts, including the fully hydraulic S18F, the 23 metre S23 and the heavy duty 22 metre S22HD which has been designed specifically with arborists in mind. The company is also planning to make a big announcement at the show – so be sure to visit to discover more.

**Versalift UK:** Stand 411/2

Versalift will be launching its all new 13.5 metre VTA-135 pick-up on Toyota Hilux and Isuzu D-Max chassis. It will also exhibit a range of van mounts, including the



Skyjack will have a host of new products including its 14ft SJ3014 micro scissor



CMC's 22 metre S22HD is ideal for tree surgeons and arborists



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**ALIMAK**



*Versalift's type approved VTL-136 is available on a Ford Transit chassis*

*Vertimac will showcase the ultra compact Nagano 09AC tracked boom*

new National Small Series Type Approved VTL-135 Ford Transit and an all new hybrid model that will be unveiled on the day.

**Vertimac:** Stand 215

Vertimac will use Vertikal Days to

demonstrate the latest self-propelled tracked boom lift from Nagano, the 22ft ultra compact 09AC. It offers a working height of 8.8 metres and up to 4.5 metres of outreach at an up and over height of almost four metres. Maximum platform capacity

is 150kg. The company will also be highlighting its growing replacement parts and used equipment business.

**Wienold Lift:** Stand 400

See: APS

**Xtreme:** Stand 104-5

See: Snorkel UK

**Youngman:** Stand 400

See: APS

**Zoomlion:** Stand 509

See: AJ Access

**Cranes & Lifting Equipment**

**AL-Lift:** Stand 503

See: CLM

**Arcomet:** Stand 108

See: Uperio UK

**Artic Crane:** Stand 611

See: City Lifting

**BG Lift:** Stand 511-12

See: GGR Rent

**Böcker UK:** Stand 111

Böcker UK will exhibit its largest aluminium truck crane, the 12 tonne AK 52 mounted on a four axle chassis. This will sit alongside its RK 36/2400 tracked/spider crane which offers a maximum boom length of 35 metres and a maximum lift capacity of 2,400kg. Finally it will bring several of its trailer mounted inclined ladder hoists and construction lifts to the show.

**City Lifting:** Stand 611

UK crane sales and rental

*Böcker UK plans to exhibit its largest aluminium truck crane, the 12t AK 52*



company City Lifting will exhibit the recently upgraded five tonne Raptor 85 articulated tower crane from Artic Cranes. Offering a tiny 3.9 metre out

of service radius, features include high working speeds and low energy consumption. It will also have the 2.5 tonne compact City Lifter mini saddle

jib tower crane, which can be rigged with jib lengths of six, eight and 10 metres. With plenty of mounting possibilities, it offers extremely light

The Raptor 85 has an industry leading out of service radius of just 3.9 metres



**C&A**

**vertikal days**

loadings and up to 120 metre hook heights on two rope layers with its standard hoist drum.

**Comansa:** Stand 611

See: *City Lifting*

**Coppard Plant Hire:** Stand 610

Be sure to visit Coppard's stand to see its unique 30 tonne Cormach 240000AX loader crane which doubles up as an articulated spider crane with a maximum tip height of 50 metres and a radius of 45 metres with a 900kg capacity. The rental company also offers a range of spider lifts, boom lifts, access scaffold towers and low level

access, as well as telehandlers and spider cranes.

**Cormidi:** Stand 511-12

See: *GGR*

**CPA:** Stand 614

The Construction Plant-hire Association (CPA) has more than 1,800 members, who together account for 85 percent of the crane and construction equipment rental market in the UK. The association will be on hand during the event to hear from you and offer advice and guidance on upcoming changes, such as the law on the use of red diesel, the current shortage



Coppard's Cormach loader crane doubles up as a spider crane

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of skilled operators and drivers, zero-emission initiatives and the changing aviation notification requirements. It will also be ready to offer an update on apprenticeships, skills and training, as well as its Stars of the Future awards.

**Crowland Cranes:** Stand 109

Crowland Cranes will have two Rough Terrain cranes on display in the form of the 80 tonne Terex RT1080L and Grove's 45 tonne RT550E. The stand will also have a wide array of crane related products and services on show, including the Rim Wizard wheel removal tool, a wireless windspeed system and its latest ranges of Power-Pad outrigger



Crowland – RT5501



Foster will have the colossal 58 tonne JMG MC 580S pick & carry on show

mats and crane storage solutions.

**Demag:** Stand 114-116

See: *Tadano Demag UK*

**Falcon Tower Crane Services:** Stand 612-13

Falcon is the largest tower crane supplier in the UK with over 430

tower cranes ranging from the two tonne Potain HD16 self erector to the 64 tonne Jaso J780PA.64 luffing jib crane. Over the past six months, Falcon has been working with different manufacturers to develop two new tower cranes specifically designed for the UK. Be sure to visit

the stand to discover more.

**Foster Cranes:** Stand 103

As the newly appointed distributor of JMG pick and carry cranes, Foster Cranes will exhibit four models from its all electric range. These include the cableless 2.5 tonne MC 25S, 4.5 tonne MC 45S and 10

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**GGR will have a number of Unic spider cranes, including its ECO models**

tonne MC 100S models as well as the colossal 58 tonne MC 580S. The company also represents Dutch spider crane manufacturer Hoeflon, of which it will be showcasing its compact three tonne C6e and four tonne C10 spider cranes alongside its TC1 tracked carrier.

**Galizia:** Stand 511-12

See: GGR

**GGR:** Stand 511-12

As usual, GGR will have a busy stand with its range of Unic spider cranes, including the latest ECO battery powered models. It also represents Sunward mini crawler cranes and Galizia pick & carry cranes and will have at least one new model on display. They also plan to squeeze in one or two unexpected brands as well as its wide range of vacuum lifting and rigging equipment. The company will also announce the launch of its new access rental division.

**Grove:** Stand 106-7

See: Manitowoc

**Hird:** Stand 304-5

UK sales and rental company Hird will look to promote Valla's latest generation of all electric,

remote controlled pick & carry cranes. It plans on bringing its 3.6 tonne V36R and the larger eight tonne V80R, however is hoping a much larger model will be making its first ever appearance. A number of Winlet vacuum robots will once again be present on the stand.

**Hitachi Sumitomo (now HSC):** Stand 112

See: NRC Plant

**Hoeflon:** Stand 103

See: Foster Cranes

**HSC Cranes:** Stand 112

See: NRC Plant

**Jaso:** Stand 612-3

See: Falcon Tower Crane Services

**Jekko:** Stand 207-8

See: JT Crane Services

**JMG Cranes:** Stand 103

See: Foster Cranes

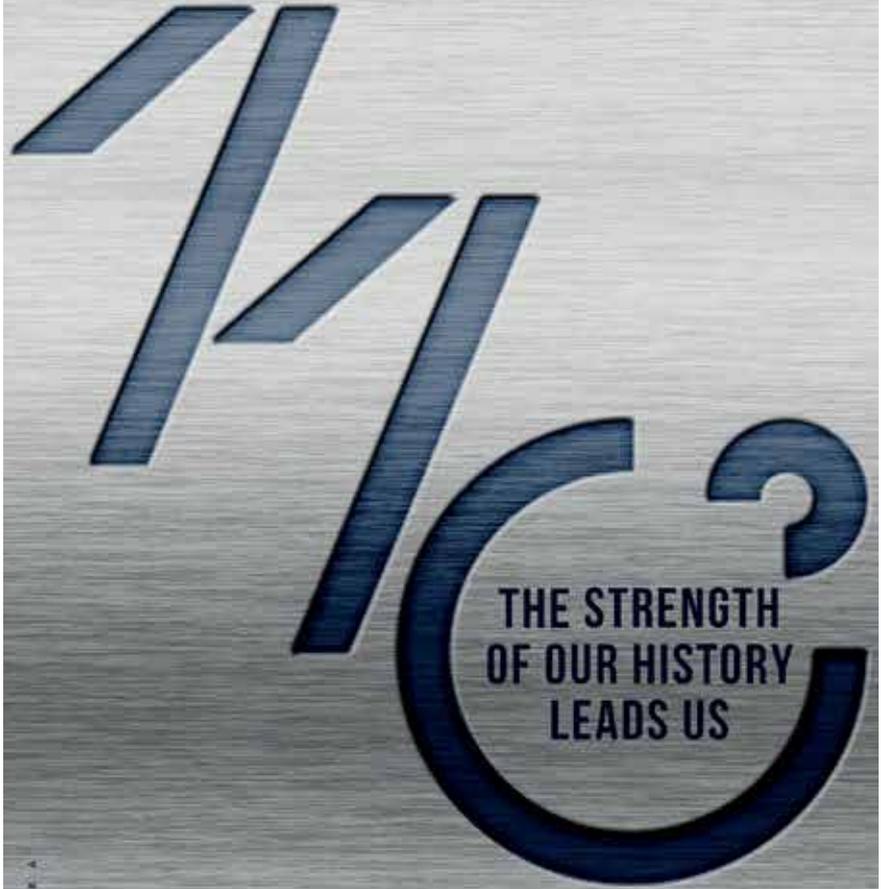
**JT Crane Services:** Stand 207-8

Jekko distributor JT Cranes will have the recently launched lithium powered five tonne SPX650 spider crane on show alongside the 600kg MPK06 battery powered mini pick & carry crane/glass handler. Other models to make an appearance include the 3.2 tonne



**Hird's V80R is the first of a number of units on order from Valla's new range**

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SPX 532 and the 15.5 tonne JF545, which combines a Fassi articulated loader crane boom with a Jekko tracked chassis.

**Kato:** Stand 211-2/307-8

See: Rivertek Services

**Klaas:** Stand 608-9

See: Kranlyft UK

**Kobelco Cranes Europe:** Stand 113

Kobelco will have its latest 100 tonne Stage V compliant CKE900G-3 lattice boom crawler crane on show. It will also be launching its latest Used Cranes Services to assist buyers and sellers of used crawler cranes, while members from its sales, service and spare parts departments will be on hand to discuss any requirements and technical queries.

**Kranlyft UK:** Stand 608-9

As the master distributor of Maeda, Kranlyft plans on showcasing a number of its spider cranes - including the new all electric Maeda MC285CB-3 - as well as a number of its mini crawler cranes. The show will also be the first chance to see the new six tonne Klaas K1100 RHX truck mounted aluminium crane alongside other Klass models as well as the heavy duty Uplifter GW1125 glass handler which has a lifting capacity of 1,125kg. Finally, it will have a couple of fixed and 360

degree Magni telehandlers on the stand offering lift capacities of six tonnes and lift heights of 20 and 30 metres respectively.

**Ladybird Cranes:**

Trade Stand 13-4

Montalift and Potain distributor Ladybird Cranes will have the 1.8 tonne Montalift M21 mobile self-erecting tower crane which features a Potain tower crane superstructure mounted on a compact all wheel drive and steer chassis, complete with

*The newly launched lithium-ion powered Jekko SPX650*



*The Montalift M21 combines a Potain tower crane on an all wheel drive chassis*



*Kobelco's 100 tonne Stage V compliant CKE900G-3 lattice boom crawler crane*



*The Uplifter GW1125 glass handler has a 1,125kg capacity*



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its own generator. Offering set up times of less than 10 minutes, the company claims the M21 is the ideal alternative to a telehandler.

**Liebherr:** Stand 615-18

Making a global debut at the show is Liebherr's 150 tonne LTM 1150-5.3 All Terrain crane, set to replace the manufacturer's popular 130 tonne LTM 1130-5.1. It will also have its 110 tonne LTM 1110, 230 tonne LTM 1230 and 60 tonne LTM 1060 All Terrain cranes on show, while its team will on hand to discuss the latest products and innovations the company has to offer.

**Link-Belt:** Stand 112

See: NRC Plant

**Maeda:** Stand 608-9

See: Kranlyft UK

**Manitowoc:** Stand 106-7

Manitowoc plans to showcase the 150 tonne Grove GMK5150L-1 All Terrain crane, which features the all new Cab 2020 carrier and a new heavy counterweight system that allows it to carry 30.9 tonne with 16.6 tonne axle loads. From the Potain range it plans on bringing its

10 tonne Potain MRH 175 hydraulic luffing jib tower crane, launched last year, and its popular four tonne Hup 40-30 self-erecting tower crane.

**Montarent:** Trade Stand 13-4

See: Ladybird Cranes

**NRC Plant:** Stand 112

NRC distributes both Link-Belt and HSC (formerly Hitachi Sumitomo) telescopic and lattice crawler cranes. The latest HSC SCX-550-3 50t Stage V Compliant model will be showcased together with a new Link-Belt telescopic crawler model making it's UK debut. In addition,

Liebherr will debut its 150 tonne LTM 1150-5.3 All Terrain crane



Grove's 150 tonne GMK5150L-1 will feature its new Cab 2020 carrier



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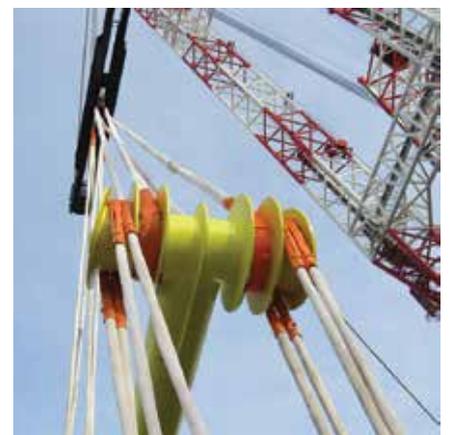
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NRC -Link Belt



Rivertek will have a 13 and 25 tonne Kato crane city type crane on its stand

NRC will also be keen to discuss its range of crawler crane rental services.

**Potain:** Stands 106-7 / 108 / TS 13-4

See: Maniowoc

See: Ladybird Cranes

See: Skyline Arcomet

**Reedyk:** Stand 407

See: Promax Access

**Rivertek:** Stand 211-2/307-8

As the European distributor of Kato, Rivertek will showcase the 13 tonne CR-130Rf and 25 tonne CR-250Rv city type cranes. Both cranes feature a hydraulic luffing jib, a searcher hook, and two winches

as standard.

**Skyline Arcomet:** Stand 108

See: Uperio UK

**Spierings:** Stand 110

The show will be the first chance for many to see Spierings' new zero emission eLift self-erecting mobile tower cranes up close. The seven tonne SK597-AT4 and 10 tonne SK1265-AT6 operate using an AC power source which works in conjunction with its lithium-ion battery pack. In the case where grid connection is not available, the crane can also work in a 'hybrid mode' combining its batteries with a small three cylinder Stage V diesel engine.



Vertikal Days will be the first times for many to see Spierings' zero emissions eLift cranes

Continued on Page 68

## Holland Lift, Green in every way



Vertikal  
days

Visit us at Vertikal Days  
Stand No. 109

A Holland Lift can be used inside and out, and complies with the most stringent environmental and OHS regulations. Whether you need an electrical, hybrid or a diesel lift, all our power units are low to zero emission. Not only can you do every job with a Holland Lift, but working with a Holland Lift is an unmatched experience in comfort, safety and ease of operation.

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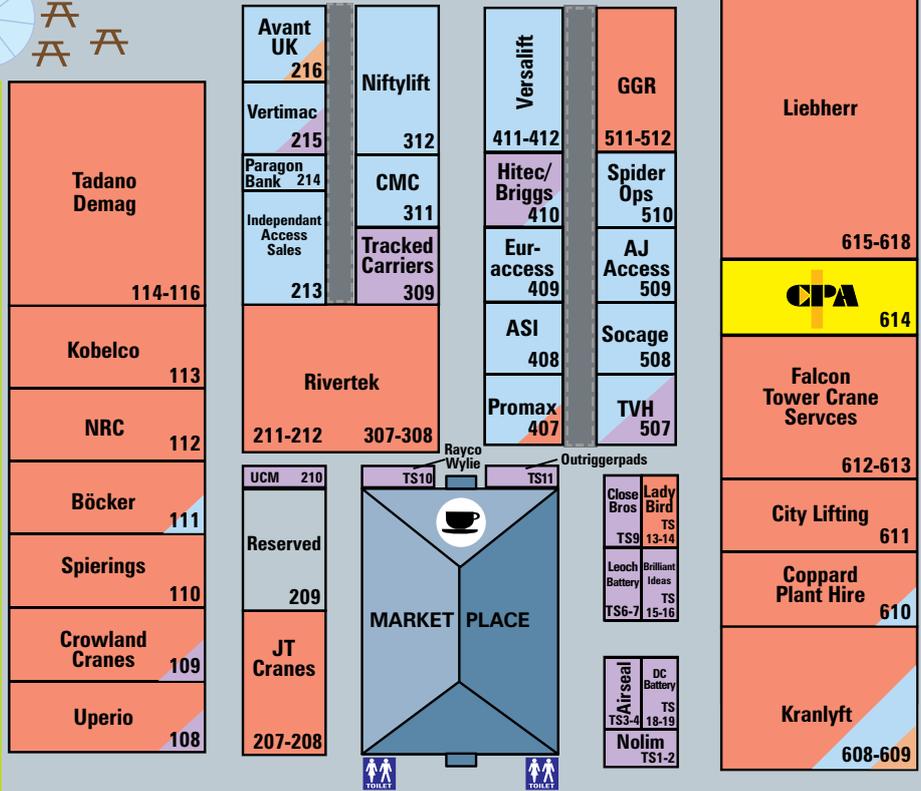
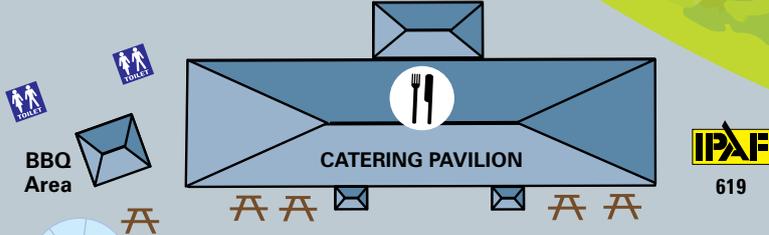
The following list includes all exhibitors and the brands that they represent attending this year's event.



Exhibitor & Brand list					
Access Platform Sales (APS)	Stand 400	Hammer	Market Place 48	Paragon Bank	Stand 214
Access Sales International (ASI)	Stand 408	Haulotte	Stand 102	Platform Basket	Stand 407
Ad Astra Equipment	Stand 408	Heyn Engineering Solutions	Market Place 32	Platform Controls	TS6-7
AFI UpLift	Stand 509	Highsparks TCS	Stand 108	Platinum International	Market Place 17
Ainscough Training Services	Market Place 29	Hinowa	Stand 500	Point of Rental	Market Place 9
Air-Seal Products	Trade Stand 3-4	Hird	Stand 304-5	Pop-Up	Stand 104-5
AJ Access Platforms	Stand 509	Hitachi Sumitomo (now HSC)	Stand 112	Potain	Stand106-7/108/TS13-4
Alfa Access Services	Stand 403-5	Hitec Lift Trucks	Stand 410	Promax Access	Stand 407
Alimak	Stand 604	Hoeflon	Stand 103	PSR	Stand 206/306
Alimats	Trade Stand 15-6	Holland Lift	Stand 409	RaycoWylie Systems	Trade Stand 10
AL-Lift	Stand 503	HSC Cranes	Stand 112	RB Components	Market Place 31
Almac	Stand 501	Imer	Stand 301	Reedyk	Stand 407
AMCS Technologies	Market Place 39/41	Independent Access Sales	Stand 213	RELiON	TS6-7
Arcomet	Stand 108	Industrial Training International UK	Market Place 27	RHC Lifting	Market Place 26
Aresta	Market Place 47	inspHire	Market Place 23	Rhinox	Stand 203
Artic Cranes	Stand 611	IPAF	Stand 619	Rim Wizard	Stand 109
Autec	Market Place 26	IPS	Stand 507	Rivertek	Stand 211-2/307-8
Avant UK	Stand 216	Irdeco	Market Place 5	Rolls Battery UK	Market Place 46
Battery Service Hub	Market Place 3	Isoli	Stand 400	RUD	Market Place 15
BG Lift	Stand 511-12	Jaso	Stand 612-13	Ruthmann	Stand 408
Bizzocchi	Stand 101	JCB	Stand 406/506	Ruthmann Bluelift	Stand 104-5
Bluelift	Stand 104-5	Jekko	Stand 207-8	SafetyLiftinGear	Market Place 48
Böcker UK	Stand 111	JMG Cranes	Stand 103	Scarlet Tech	Stand 108
BoSS	Stand 400	JSC IT Sistemas	Market Place 11	Serious Labs	Stand 619
Bravi Platforms	Stand 401	JT Crane Services	Stand 207-8	Shield Batteries	Market Place 22
Briggs Equipment	Stand 410	Kato	Stand 211-2/307-8	Sinoboom	Stand 605
Brilliant Ideas	Trade Stand 15-6	Klaas	Stand 608-9	Sky Aces	Stand 504-5
Bronto Skylift	Stand 607	Klubb	Stand 504-5	Skyjack	Stand 100
Capja	Market Place 12	Kobelco Cranes Europe	Stand 113	Skyline Arcomet	Stand 108
Carl Stahl Evita	Market Place 15	Kran & Bühne	Market Place 40	SMIE UK	Market Place 30
Cela	Stand 409	Kranlyft UK	Stand 608-9	Snorkel UK	Stand 104-5
City Lifting	Stand 611	Kuzar	Market Place 48	Socage	Stand 508
CLM	Stand 503	Ladybird Cranes	Trade Stand 13-4	Spider Ops	Stand 510
Close Brothers Asset Finance	Trade Stand 9	Latch & Batchelor	Market Place 43	Spierings	Stand 110
CMC	Stand 311	Leguan Lifts	Stand 216	Sterling GP	Stand 603
Comansa	Stand 611	Leoch Battery UK	Trade Stand 6-7	Sunward	Stand 511-12
Coppard Plant Hire	Stand 610	LGMG	Stand 200/300	Syrinx	Market Place 9
Cormidi	Stand 211-2	Liebherr	Stand 615-18	Tackle Store	Market Place 48
CPA	Stand 614	Liebherr Training	Stand 615-18	Tadano Demag UK	Stand 114-16
CPL	Stand 504-5	Lifting Gear UK	Market Place 37	Tecnomagnete	Market Place 15
Cranes & Access	Market Place 40	Lift-Tex Industrie	Market Place 44	Tensology	Market Place 19
Cranesafe	Market Place 30	Link-Belt	Stand 112	Terex Cranes	Stands 108 & 109
Cranes Today	Market Place 21	Load Monitoring Systems	Market Place 36	Teupen	Stands 510 & 403-5
Crowland Cranes	Stand 109	Maber	Stand 503	Thermoil	Stand 507
Crown Batteries	Market Place 22	Mace Industries	Stand 502	Top Service	Market Place 14
CTE UK	Stand 101	Maeda	Stand 608-9	Torquer	Market Place 16
DC Battery Technologies	Trade Stand 18-9	Magnetek	Market Place 24	Towergate Insurance	Market Place 18
Demag	Stand 114-116	Magni UK	Stand 601	Tracked Carriers	Stand 309
Dingli	Stand 602	Manitowoc	Stand 106-7	Tracked Spider Sales (TSS)	Stand 311
Durham Lifting	Market Place 42	Mantis Tadano	Stand 114-6	Trackunit UK	Market Place 38
Dynaset	Market Place 1	MCS Global	Market Place 35	Trojan Batteries	Market Place 17
Dyneema	Market Place 44	Mentor Training Solutions	Market Place 25	TVH	Stand 507
Easy Lift	Stand 213	Modulift	Market Place 34	TVH University	Market Place 20
Ecobat Battery	Market Place 46	Montarent	Trade Stand 13-4	Unic	Stand 511-12
Electroelsa	Stand 402	Multitel Pagliero	Stand 606	Universal Crane Mats	Stand 210
ELS Lift	Stand 403-5	Myerscough College	Market Place 8	Uperio UK	Stand 108
Euraccess	Stand 409	Nagano	Stand 215	Valla	Stand 304-5
Falcon Training Services	Stand 612-13	Niftylift	Stand 312	Verope	Market Place 36 & 32
Faresin	Stand 201-2	No Falls Foundation	Market Place 7	Versalift UK	Stand 411-12
Faraone	Stand 407	Nolim	Trade Stand 1-2	Vertical Press	Market Place 40
Foster Cranes	Stand 103	NRC Plant	Stand 112	Vertimac	Stand 215
Galizia	Stand 511-12	OEM Automatic	Market Place 4	vWork	Market Place 6
Geda	Stand 502	Oil&Steel	Stand 304-5	Wienold	Stand 400
Genie UK	Stand 206/306	Omega Solutions	Stand 403-5	Winlet	Stand 304-5
GGR	Stand 511-12	Ommelift	Stand 400	Xenith Heights	Market Place 47
Glasboy	Stand 211-2	Orlaco	Market Place 4	Xtreme	Stand 104-5
Gorbel	Market Place 15	OTR Wheel Engineering	Market Place 10	Youngman	Stand 400
Grove	Stand 106-7	Outriggerpads	Trade Stand 11	Zoomlion	Stand 509
GSR	Stand 600	Palfinger Platforms	Stand 504-5		

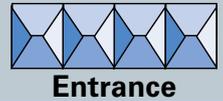
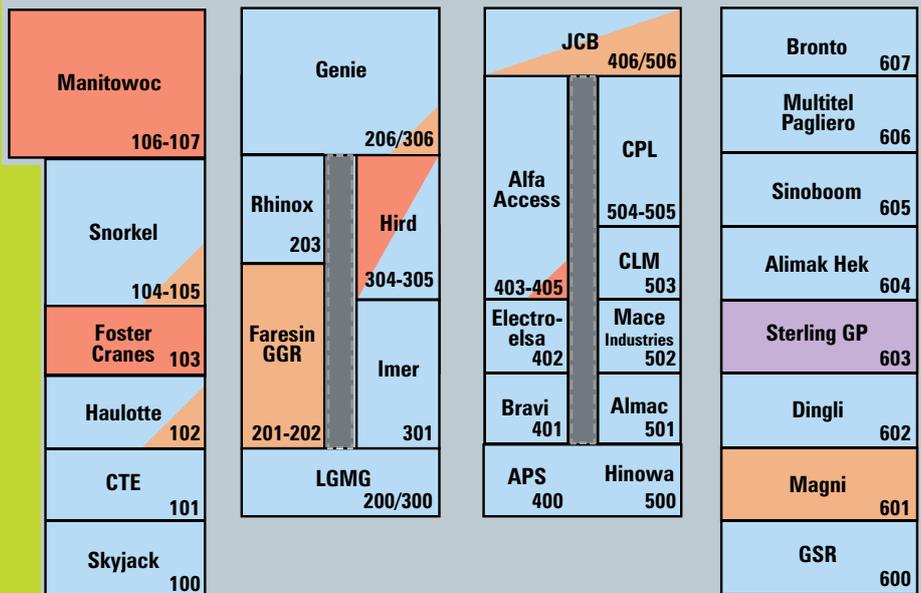
# Outdoor Site Plan

# Vertikal days



Organisers Office/Operations Room

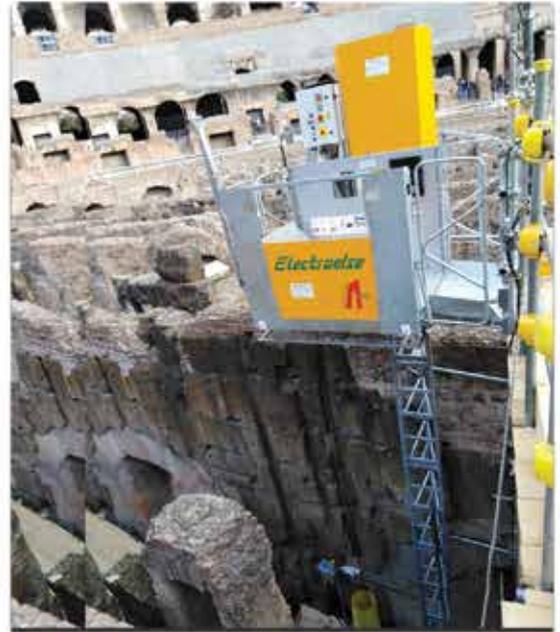
Exhibitor Parking



**KEY**

- ACCESS
- CRANES
- TELEHANDLERS
- COMPONENTS/ELECTRONICS/OTHER

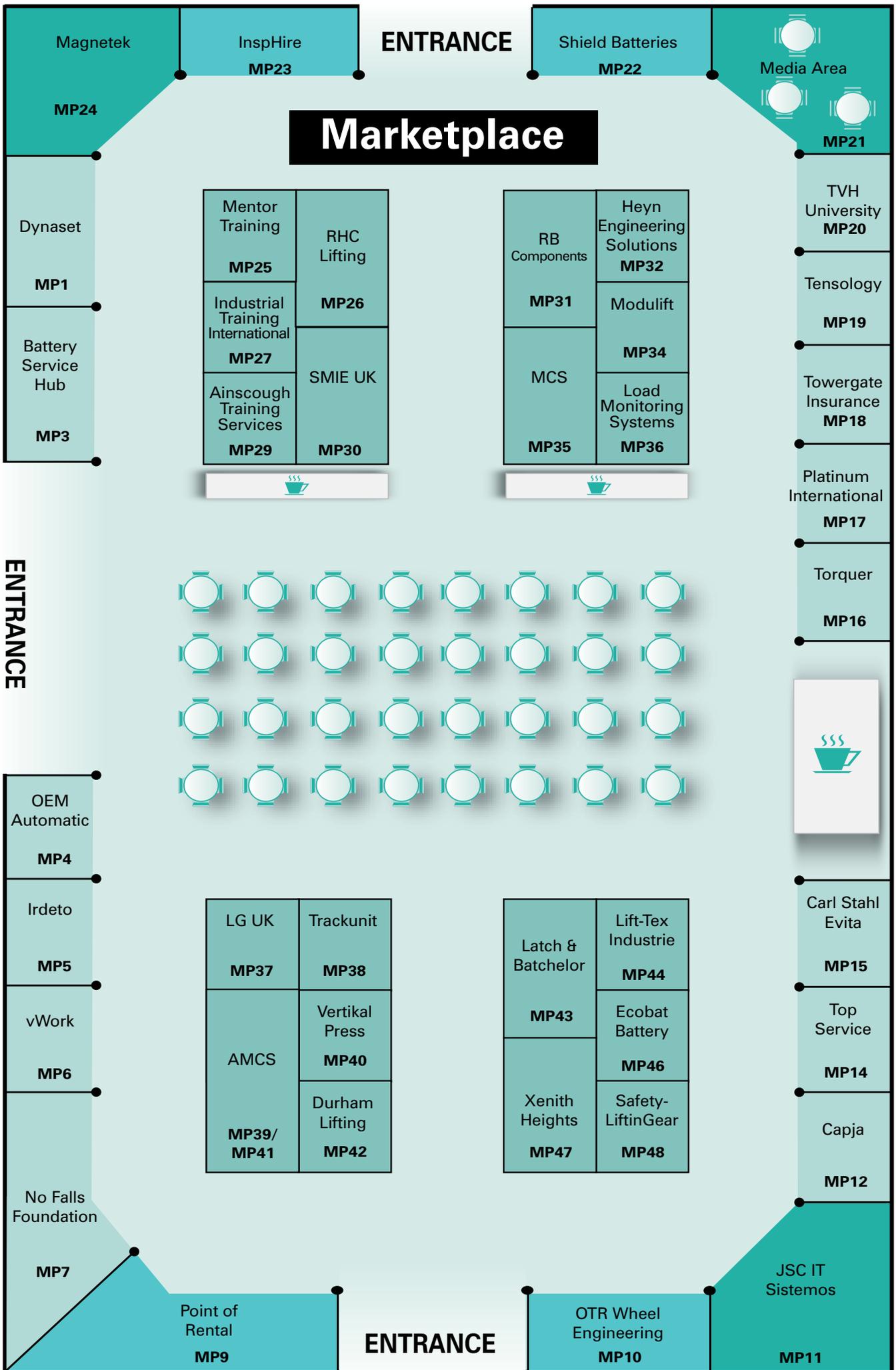
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- Under 3ton weight (TC22N)
- Available engines: Diesel, Lithium-ion and Bi-energy

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Cranes & Lifting Equipment *continued*

**Sunward:** Stand 511-12

See: *GGR*

**Tadano Demag UK:** Stand 114-6

Tadano Demag has yet to confirm precisely which models it will have on the stand, but it has a good selection of brand new All Terrain, truck and Rough Terrain cranes to choose from. A key element of its display will be the launch of the new merged branding and model designations.

**Terex Cranes:**

Stand 108 & 109

See: *Crowland Cranes*

See: *Uperio UK*

**Unic:** Stand 511-12

See: *GGR*

**Uperio UK:** Stand 108

Uperio will bring two new self-erecting tower cranes to the show, the first being a 4.4 tonne Terex CSE 32, boasting a 32 metre jib and a jib tip capacity of 1,150kg. It will also launch the company's own 1.5 tonne Opti tower crane. Manufactured at the Arcomet factory in Belgium, the Opti offers a jib length of 14.5 metres with a maximum 360kg jib tip capacity. The company will also exhibit a number of accessories, including the latest camera systems from Scarlet.

**Valla:** Stand 304-5 See: *Hird*

**Wienold:** Stand 400 See: *APS*

**Winlet:** Stand 304-5 See: *Hird*



Uperio will launch its 1.5 tonne Opti self-erecting tower crane

Other equipment and services etc...

**Ainscough Training Services:**

MP 29

As one of the largest independent providers of specialist training in the UK, Ainscough offers a full suite of lifting related training for construction, manufacturing, engineering, transportation, aerospace, renewable energy and utility sectors as well as for the MoD. It is also a CPCS/NOCN, CSkills and NPORS accredited test centre and runs National Vocational Qualifications assessments.

**Air-Seal Products:** TS 3-4

Punctures? Slow air leaks? Rim or bead leaks? Air-Seal Products offers a range of tyre sealants suitable for heavy construction equipment, such as mobile cranes, that can prevent up to 95 percent of all punctures up to 30mm. They are also suitable for use on trucks, vans and trailers.

**Alimats:** TS 15-6

See: *Brilliant Ideas*

**AMCS Technologies:** MP 39/41

French safety device manufacturer AMCS Technologies produces anti-collision and zoning products for lifting equipment. The company will launch its new DCS 61-S anti-collision system for both tower and mobile cranes working together on the same site - something for which there has been a demand for



AMCS' new anti-collision device works for tower and mobile cranes on site

some time. It will also have other new products on show, including its job site supervisor dashboard, windspeed indicators, day and night aircraft warning lights and cameras.

**Aresta:** MP 47

See: *Xenith Heights*

**Autec:** MP 26

See: *RHC Lifting*

**Battery Service Hub:** MP 3

Battery Service Hub is a leading supplier of deep cycle traction and motive batteries, chargers and fast

charge solutions for aerial work platforms, forklifts and cleaning machines.

**Brilliant Ideas:** TS 15-6

The company will highlight its Alimats range of interlocking



*The Slapp clamp for lifting palletised materials from Brilliant Ideas*

aluminium outrigger mat system, as well as its new cover mats used to create a rapid temporary cover over holes on construction sites or industrial environments. It also offers a safety net recovery system, levelling shims and a lightweight Slapp clamp for safely lifting palletised materials, such as bricks, by crane.

**Capja:** MP 12

Capja specialises in replacing manual paper based processes with digital solutions. Its user friendly mobile apps can digitise any type of form, including timesheets, daily/weekly checks, site visit forms and RAMS.

**Carl Stahl Evita:** MP 15

Carl Stahl plans to launch two Gorbelt intelligent lifting devices

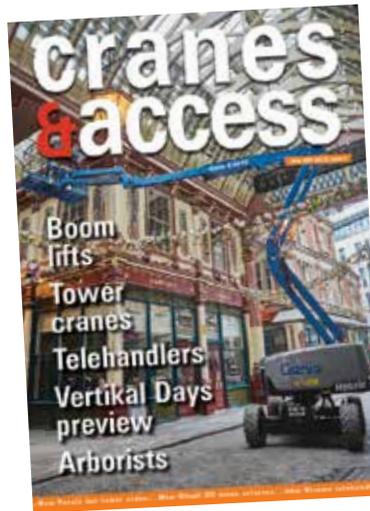
*The Poweroad Infinity offered by DC Battery provides battery details via a mobile app*



at the show in the form of the G-Force and Easy Arm. Filling the gap between traditional lifting devices and fully automated robotic systems, the devices offer precision lifting and control with increased speeds. The company also offers RUD lifting and lashing equipment, Technomagnete lifting magnets and Condorlift hoists.

**Close Brothers Asset Finance:** TS 9

Leading asset finance company, Close Brothers provides bespoke finance for businesses looking to buy new or used equipment. Its team will be on hand to discuss its hire purchase, lease and refinances packages, as well as provide ongoing assistance throughout the life of the finance contract.



**Cranes & Access:** MP 40

There will be copies of the industry's leading Cranes & Access magazine available around the show. Published by the show organiser Vertikal Press, each issue is packed full of insightful features, stories and news relating specifically to the lifting industry.

**Cranesafe:** MP 30

See: *SMIE UK*

**Crown Batteries:** MP 22

See: *Shield Batteries*

**DC Battery Technologies:** TS 18-9

As a distributor of Trojan Battery in the UK, DC Battery will present a number of its flooded and AGM batteries alongside its own DC Power brand. Perhaps of most interest will be the 100Ah Poweroad Infinity lithium-ion battery with a built-in bluetooth facility that provides users with information on the health and state of charge of the battery via a mobile app.

**Durham Lifting:** MP 42

Durham Lifting is the supplier of Multi-Sec lifting and spreader beams and frames with lifting capacities up to the 250 tonnes. Designed and manufactured in the UK, the Multi-Sec offers a range of fixed, modular or adjustable products.

**Dynaset:** MP 1

Hydraulic equipment manufacturer Dynaset specialises in converting the hydraulic power of a wide range of construction equipment into electricity, high pressure water, compressed air, magnet power and vibration. It plans on bringing its hydraulic generator, compressor and high pressure water pump to the show.

**Dyneema:** MP 44

See: *Lift-Tex Industrie*

**Ecobat Battery:** MP 46

Ecobat will showcase a wide selection of batteries from leading brands such as Rolls, Victron, Tab, SPE and Fronious.

**Glasboy:** Stand 511-12

See: *GGR Group*

**Gorbelt:** MP 15

See: *Carl Stahl Evita*

**Hammer:** MP 48

See: *SafetyLiftinGear*

**Heyn Engineering Solutions:** MP 32

Heyn offers a comprehensive range of material handling solutions to the industrial, manufacturing, and warehousing sectors throughout the UK and Ireland. The company also distributes Verope premium wire rope in Ireland, with its range of



*Dynaset offers a range of hydraulically powered equipment*

wire ropes widely used by mobile, crawler, tower, and luffing cranes as well as foundation equipment and truck cranes. If required, it can also provide end-stops as well as replace or repair existing equipment.

**Industrial Training International UK:** MP 27

ITI UK will offer demonstrations on its virtual reality (VR) crane simulator with visitors able to operate tower, crawler, Rough Terrain, truck, pick & carry and overhead gantry cranes. It will also showcase its virtual hazard identification assessment module which provides training on ten key areas of risk commonly found on construction sites.

**inspHire:** MP 23

Vertikal Days will be the first opportunity for rental management software provider inspHire to demonstrate its latest OnRent system. Aimed at small to medium sized businesses, the cloud-based solution allows users to fully manage their rental sales, service and invoicing while on the go.



Heyn offers socketing end stops for mobile and crawler cranes

**IPS:** Stand 507

See: TVH

**Irdeto:** MP 5

Digital platform security company Irdeto will launch its Imperto system which, it claims, is the world's first contactless rental platform. Imperto Access allows powered access operators to use their smartphones to unlock and use platforms, while its Imperto SiteShare provides contractors



ITI will showcase its VR simulator with its crane and hazard identification training programmes

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and end users visibility of available equipment on a jobsite.

**JSC IT Sistemas:** MP 11

IT Sistemas has developed a construction hoist fleet management system. Using a controller with inbuilt WiFi, the system automatically selects and sends the goods or passenger hoist with the shortest distance to travel to the required floor. An online dashboard also provides information on the location of the hoists as well as details on usage, maintenance and safety.

**Kran & Bühne:** MP 40

The German speaking publication from the Vertikal team will be available to pick up from various points around the show.

**Kuzar:** MP 48

See: *SafetyLiftinGear*

**Latch & Batchelor:** MP 43

Latch and Batchelor supplies Verope premium wire ropes to crane companies, port authorities, mining and construction sites across the UK, Ireland and overseas. It has more than 500 tonnes of rope in stock for same day or next day

delivery, while its engineers are certified to fit end stops on mobile cranes either at its Birmingham site or on a customers' site depending on the type of end termination.

**Leoch Battery UK:** TS 6-7

Leoch supplies a range of batteries suitable for aerial work platforms. These include its flooded DT series for maximum performance and durability, and the LDC range of maintenance free AGM batteries. Its RELiON Insight series uses lithium technology, providing battery packs that are both lighter and longer lasting in terms of both overall life and time between charges, compared to lead acid batteries.

**Liebherr Training:** Stand 615-18

See: *Liebherr GB*

Liebherr Training has one of the best equipped and extensive training operations in the UK for crane operators, technicians and installers.

**Lift-Tex Industrie:** MP 44

Dutch fibre sling manufacturer Lift-Tex specialises in the production of round and webbed slings, protections and lashing systems



*Lift-Tex specialises in round and webbed slings, protections and lashing systems*

with capacities up to 8,000 tonnes. With a focus on sustainability, the company introduced its Extreema brand of products with bio-based Dyneema that claims to be 15 times stronger than steel at the same weight as well as offering 90 percent carbon footprint reduction compared with standard HMPE products.

**Lifting Gear UK:** MP 37

LGUK is a global provider of lifting and handling equipment. Its Lifting Projects division specialises in contract lift work, lifting solutions and fabrications, while offering heavy lifting equipment for sale or rental. The company also provides LOLER, repair and maintenance services as well as a range of training courses.

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Load Monitoring is launching the world's first digital pad eye tester



**Load Monitoring Systems:** MP 36

Load Monitoring Systems specialises in the design and manufacture of lifting equipment and load measurement products used throughout the world by the marine, subsea, oil and gas, construction, mining and energy sectors. It will be exhibiting the latest in load cell technology, including the world's first digital pad eye tester.

**Magnetek:** MP 24

Magnetek will display its full line of wireless radio controls for lifting equipment, including the Flex Pro proportional control transmitter, MHR radio controller and Flex VUE transmitter with graphic display. The controllers can be customised for a variety of applications, reducing internal engineering and

manufacturing costs, improving time to market and enhancing equipment performance.

**MCS Global:** MP 35

Rental software provider MCS will showcase its latest timesheet mobile app, designed to give users the ability to digitise shift allocation, timesheet creation and submission, and finalise customer invoicing for hours worked. It will also be demonstrating its fully integrated MCS resource planner tool.

**Media Area:** MP 21

A selection of trade magazines will be available for visitors to take including Cranes & Access, Kran & Bühne, Cranes Today, Plant and Civil, Green Energy Publishing, Movicago and ManuMag



Magnetek will display its full line of wireless radio controls



MCS will showcase its latest timesheet mobile app

**Mentor Training Solutions:** MP 25

Mentor Training Solutions provides training and associated services for material handling, access and mobile construction equipment. Approved by IPAF and PASMA,

courses can be delivered on sites or at one of its training centres. The company also offers an experienced PASMA instructor and approved tower systems anywhere throughout the UK as part of its 'PASMA Van' service.

**BATTERY A**  
Flat Plate  
700 CYCLES TO 80% D.O.D.  
1 YEAR WARRANTY

VERTIKAL DAYS  
**STAND MP3**

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FLAT Plate or TUBULAR Plate

Modulift offers a range of customised lifting frames



OEM offers camera and monitoring systems for lifting equipment



**Modulift:** MP 34

Modulift specialises in the manufacture and supply of 'below the hook' lifting equipment, including load monitoring spreader frames, lifting beams and modular spreader beams with capacities up to 5,000 tonnes and spans up to 100 metres. It also offers technical expertise and often designs custom lifting equipment for specific applications and job sites.

**Nolim:** TS 1-2

Nolim is one of the largest suppliers of outrigger and road mats in Europe. It will show a range of outrigger mats/pads, outrigger shoes, temporary ground protection/road pats and stowage boxes - all made from lightweight HMPE 500 regenerated plastic. It will also launch its latest sleeper system for concrete pumps.

**OEM Automatic:** MP 4

As the UK sales partner of Orloco camera and monitoring systems, OEM Automatic will exhibit its LoadView and WinchView systems that have been designed to provide crane operators with uninterrupted visibility over the lifting hook and load as well as the winches and any riggers/linesmen. Also on display will be its SideEye turn assist system, which alerts crane or delivery drivers of any cyclists, pedestrians or road users that might be positioned in their blind spot.

**No Falls Foundation:** MP 7

The No Falls Foundation is a UK charity dedicated to preventing falls from height and helping people affected by the life-changing consequences of a fall. Supported by the Access Industry Forum (AIF), the goal of the Foundation is to raise awareness of the risks associated with working at height, research the causes of falls and provide advice and support to those affected by a fall.

**Orlaco:** MP 4

See: OEM Automatic

**OTR Wheel Engineering:** MP 10

OTR manufactures and supplies wheels and tyres that are suitable for the majority of aerial work platforms from every manufacturer. With demand for hybrid and electric platforms growing it will highlight its new range of non-marking tyres, including its largest tyre to date, the 445/50D710NM.

**Outriggerpads:** TS 11

Outriggerpads will display its latest product introductions, including lightweight testing ramps designed to assist service engineers and technicians with oscillating axle testing as well as for carrying out general maintenance. It will also show a selection of high visibility outrigger mats alongside its large Premium crane pads/mats and the new Eco Stak Plus range of stackable jacking/cribbing blocks.

**Paragon Bank:** Stand 214

With more than 35 years' experience in asset finance, Paragon Bank offers UK businesses a range of finance, from one off sales to comprehensive funding programmes. It also offers the full range of standard hire purchase and leasing products along with regular



The 445/50D710NM from OTR is its largest non-marking tyre to date



The i4300 crane monitoring system from RaycoWylie

payment plans, flexible terms and bespoke solutions.

**Platinum International:** MP 17

Established in 2002, Platinum

International is one of the UK's largest battery and lubricants distributors. It will likely have an array of its own deep cycle batteries as well as a number from Trojan Batteries.

**Point of Rental:** MP 9

With locations in the UK, US, Australia, South Africa and mostly recently Germany, Point of Rental provides its rental and inventory management software to customers worldwide. This year it will demonstrate the benefits of its rental software, while also focusing on its latest Elite and Syrinx products as well as its e-commerce product RentItOnline.

**PSR:** Stand 206/306

See: Genie UK

**RaycoWylie Systems:** TS 10

RaycoWylie provides wired and wireless crane monitoring systems for the retrofit market. Products on display will include its i4500 and i4300 systems, which feature a 4.3 inch full colour screen plus USB connectivity that can be used to transfer calibration files, load charts, software and more.

**RB Components:** MP 31

RB Components offers a huge supply of spare and replacement parts for a plethora of aerial work platform, telehandler, forklift and other equipment manufacturers and types. It also offers parts for engines as well as a range of batteries and chargers.



New testing ramps from Outriggerpads help with oscillating axle testing



The PJB controller from Autec features a 4.3 inch display



**RHC Lifting:** MP 26

Overhead gantry crane specialist and UK distributor of Autec, RHC will have the complete Autec range of customisable radio remote controls for lifting, hydraulic and mobile machinery applications on display. These will include the Dynamic+ and Dynamic+P models, alongside the Compact, Link and Curve transmitting units. Its PJM and PJB radio remote controls are equipped with 4.3 inch displays and are available with the new Autec Vision System (AVS) cameras.



**Rim Wizard:** Stand 109

See: *Crowland Cranes*

**Rolls Battery UK:** MP 46

See: *Ecobat*

**RUD:** MP 15

See: *Carl Stahl Evita*

**SafetyLiftinGear:** MP 48

Operating from 10 locations across the UK, SafetyLiftinGear supplies lifting equipment, materials handling and fall protection products. It also offers maintenance,

inspections, and testing services, as well as permanent safety lines installation. It will be displaying its Hammer material lifts and its latest fall protection products.

**Scarlet Tech:** Stand 108

See: *Uperio UK*

**Shield Batteries:** MP 22

Shield Batteries is the UK distributor of leading deep cycle battery manufacturer Crown Batteries as well as for Sterling's AGM and lithium batteries. It offers a wide range of batteries for powered access, lifting equipment and telehandlers, while also offering fleet owners a replacement battery service.

**NEW**

**SJ9664 RT**

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Skyjack's new SJ9664 Full Size Rough Terrain has a working height of 21.51 m. With one of the largest work areas on the market, even more work can be done.

**SMARTORQUE™** technology provides an optimised balance of horse power, torque and hydraulic efficiency, maintains on-site performance, and keeps maintenance costs down.



**SMIE UK:** MP 30

SMIE UK is the installation and service arm of tower crane anti-collision manufacturer SMIE. The company will be looking to promote its renowned ProSite system that now comes with 4G remote monitoring and control.

**Sterling GP:** Stand 603

UK plant body manufacturer Sterling will have its latest generation of powered access delivery vehicles/bodies on its stand. These include a 32 tonne beavertail fitted to a Scania 8x2 chassis that has been built for Nationwide Platforms, and a 26 tonne fully electric beavertail which the company is hoping will give visitors an insight into what the future of transport might look like.

**Syrinx:** MP 9

See: Point of Rental

**Tackle Store:** MP 48

See: SafetyLiftinGear



*Sterling will have its latest generation of powered access delivery vehicles/bodies*



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**STANDS: 608-609**

Water propulsion is used to remotely turn a load without the need for tag lines



**Tecnomagnete:** MP 15

See: Carl Stahl Evita

**Tensology:** MP 19

Steel wire rope specialist Tensology will be demonstrating its Test-Lubricate-Certify (TLC) concept, which allows crane ropes to remain in service for longer and eliminates unnecessary rope changes.

**Top Service:** MP 14

Credit information provider Top Service helps thousands of customers in the construction and rental industries avoid problem payers and reduce bad debt, as well as help collect from challenging debtors. Be sure to stop by and ask its team to demonstrate the company's dynamic credit information, debt prevention and recovery services.

**Torquer:** MP 16

Load orientation system manufacturer Torquer will demonstrate its recently launched HALO systems, which offer lift capacities of five, 10 and 20 tonnes.

The system comprises a circular tank of liquid - usually water - which is suspended from a crane between the hook and the load. Radio controlled thrusters are then used to propel the water in a clockwise or anti-clockwise direction in order to turn the load without the need for tag lines.

**Towergate Insurance:** MP 18

Towergate will be on hand to discuss its bespoke approach to its insurance coverage and risk management. Also ask about its personalised claims service, which caters for almost every eventuality in what is an ever evolving industry.

**Trackunit UK:** MP 38

Telematics and fleet management company Trackunit will showcase its latest innovation, Trackunit Kin. The system enables all assets and equipment on site to be connected and tracked using a single app, with the company claiming it will eliminate substantial and costly downtime searching for lost and misplaced equipment on site.

*Trackunit Kin enables all assets and equipment on site to be connected and tracked*



# MIGHTY MICRO MEANS BUSINESS

Skyjack's new SJ3014 micro DC scissor lift represents a significant new presence in the low level access arena.

Ideal for easy accessibility into tight spaces, it has a quiet and swift electric drive, and maintenance-free Gel batteries.

The micro combines low cost of ownership with Skyjack's renowned product support - all at a price that means business.





Tracked Carriers

**Tracked Carriers:** Stand 309  
Tracked Carriers will have its range of material carrying products on display which are all designed and manufactured at its location in Essex. Offering low ground pressures and the ability to climb stairs, its carriers can carry loads up to 2,200kg across all types of terrain, while a range of attachments help tailor them to specific tasks when required.

**Trojan Batteries:** MP 17  
See: *Platinum International*

**TVH:** Stand 507  
Following the acquisition of UK parts and service company IPS, TVH says that it is now better placed to serve the UK access market. It will display a fully stocked service van, highlighting the volume of spare parts, including joysticks, controllers, switches and sensors they carry on board. It will also demonstrate its battery reconditioner system,

which restores capacity and extends battery life, as well as its Bandenkot tyre filling machine for foam filled tyres. Don't forget to bring a business card in order to be entered into its prize draw.

**TVH University:** MP 20  
Accompanying TVH, its university will be on hand to discuss the company's scheduled technical training courses and virtual classroom training courses.

**Universal Crane Mats:** Stand 210

Universal will exhibit its full range of crane mat and load spread products, including its UniMat aluminium, steel, timber and polymer crane mats. Located in the East Midlands, it offers a wide range of load spread solutions for both hire and sale.

**Verope:** MP 36 / MP 32

See: *Latch & Batchelor*

See: *Heyn Engineering*



The Bandenkot tyre filling machine from TVH

**Vertikal Press:** MP 40

Vertikal Press is the publisher of both *Cranes & Access* and *Kran & Bühne* magazines as well as the industry renowned news service and information database Vertikal.net. Copies of its magazines will be freely available at the stand along with an unmissable show special subscription offer. Be sure to come and say hello to the team.

**vWork:** MP 6

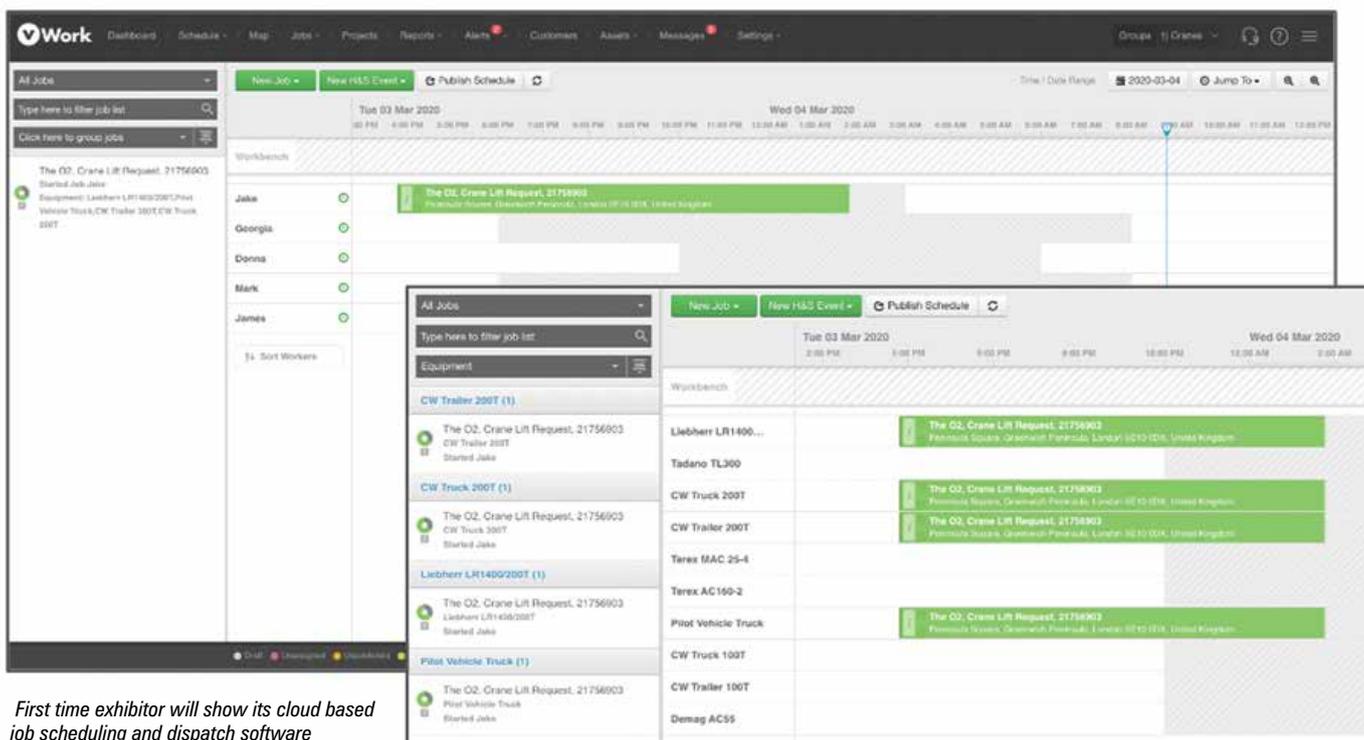
First time exhibitor, vWork offers a cloud based job scheduling and dispatch software for the lifting industry. Dispatchers/hire desk staff can allocate multiple equipment and ancillary items to the same job along with assigning a suitably



qualified operator. Features include time stamping jobs, automatic invoicing, customisable safety plans and - what the company is claiming - the first three-way messaging function between the customer, operator and dispatcher.

**Xenith Heights:** MP 47

As a specialist provider of working at height products, Xenith Heights will show its range of Gripps tool tethering products and its Aresta height safety personal protection equipment. It also represents Petzl climbing gear and Knipex pliers.



First time exhibitor will show its cloud based job scheduling and dispatch software

# Making their debut

The following new products are all due to be launched at Vertikal Days, for some of them it is the first time they have ever appeared at a public venue, while for others the first time at a European or UK show.

## Vertikal days

The all electric 6m/2.5t 525-60E telehandler from JCB



JCB's first 360 degree 20.5m/5.5t 555-210R telehandler

Almac's first Billennium Spiderboom - the 18m B1890 EVO Quick-Pro



Liebherr's 150 tonne LTM 1150-5.3

Dingli's has launched its narrow aisle 86ft JCPT2814DC and 99ft JCPT3214DC battery electric powered scissor lifts



# NEW

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A digital pad eye tester from Load Monitoring Systems



The first show for the 21 metre GSR B210PXJ on a 3.5 tonne Mercedes Sprinter chassis



Test ramps Outriggerpads



Spierings zero-emission eLift self-erecting mobile tower cranes [eLift] SK597-AT4 and 10 tonne SK1265-AT6



Genie's 14ft GS-1432m and 19ft GS-1932m micro scissors



Skyjack's new micro scissor lift the 14ft indoor SJ3014



Snorkel's lithium powered 27ft S2755RTE RT scissor lift



Artic Cranes Raptor 85 articulated tower crane



The Nagano 22ft ultra compact 09AC tracked boom lift



Coppard's 30 tonne Cormach 240000AX loader crane on tracks



Skyjack's 64ft SJ9664 RT Rough Terrain scissor lift



Snorkel's new 46ft A46 E electric boom lift



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Omega Solutions' heavy duty 612TS tracked scissor lift



CMC's 17.9m fully hydraulic S18F spider lift



The DCS 61-S anti-collision system from AMCS Technologies



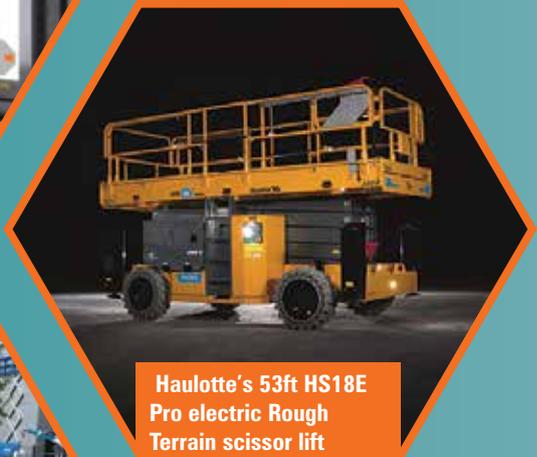
A 39m Teupen Leo 39 GT spider lift



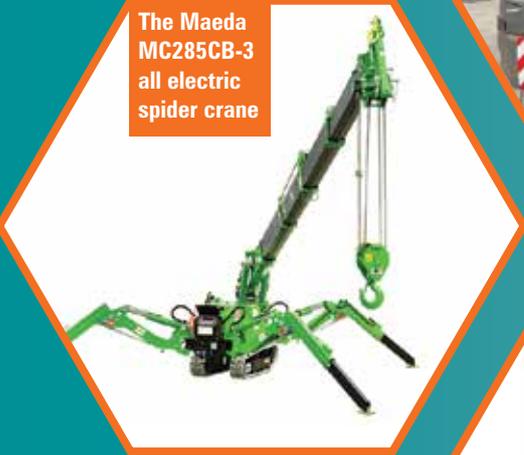
Valla's new generation of all electric pick & carry cranes



Haulotte's 53ft HS18E Pro electric Rough Terrain scissor lift



The Maeda MC285CB-3 all electric spider crane



Haulotte's 46ft Sigma16 Pro articulated electric boom lift



The 1,125kg Uplifter GW1125 glass handling robot



Grove's GMK5150L-1 with the new Cab 2020 carrier



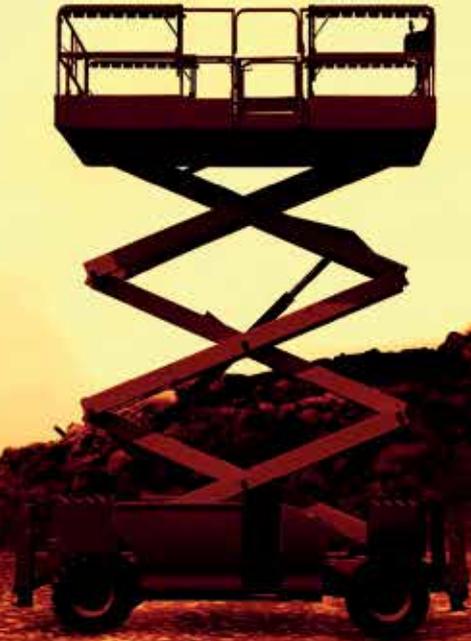
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**E-TECH**

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JCB have used their experience in designing tough, hardworking equipment to ensure their electric scissors range are also built to higher standards. With high quality paint finish and many unique features, the machines have higher levels of safety, ease of use, reliability and serviceability. Industry standard components across the range allow seamless integration into existing rental fleets. JCB also offer higher levels of support through an unrivalled dealer network with quick start guides, good parts availability, finance and technical advice.

**JCB**

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Magni's new heavy duty six tonne/10 metre TH 6.10 fixed frame telehandler



Platform Basket's new 25ft tracked RR9/200



Leguan's newly updated 190 spider lift



Sinoboom's 19ft 1932ME slab electric scissor lift



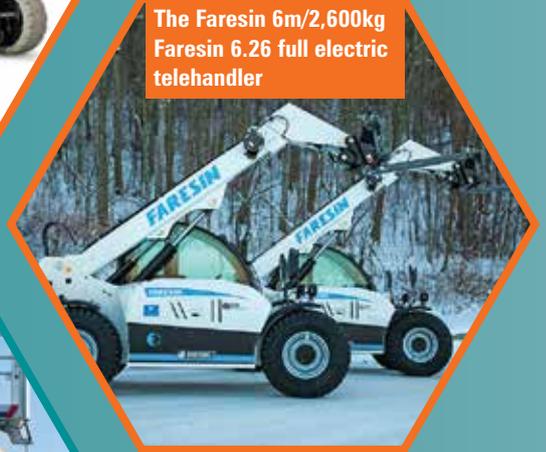
Ruthmann 30 metre T 300 XS truck mounted platform



Niftylift's HR17NE 50ft all electric boom lift



The Faresin 6m/2,600kg Faresin 6.26 full electric telehandler



The new 35ft RX12CS from Rhinox



Almac's 60ft/18 metre B1890 EVO Quick-Pro



Kobelco 100 tonne Stage V compliant CKE900G-3 lattice boom crawler crane



A 45m MJ 450 from Multitel



# Thank you for visiting Vertikal Days 2021

The Vertikal Days team and its exhibitors would like to thank you for supporting the show in what have been challenging times. We hope that your visit proved enjoyable, valuable, educational, stimulating and that you had the chance to meet with plenty of old friends and new contacts.



Save the date - Vertikal Days 2022.  
Make sure to add the 2022 dates to your calendar.  
Vertikal Days 2022 will return to the East of England Showground in Peterborough on ... **May 11th and 12th 2022.**

Register  
to attend  
today  
[vertikaldays.net/visitor](http://vertikaldays.net/visitor)

## Show Information

**Venue:** East of England Arena and Events Centre, Peterborough, PE2 6XE, UK

### Show times and dates:

Wednesday 22nd September 10:00 to 17.30

Thursday 23rd September 10:00 to 16.00

### How to register

- Pre-register: [www.vertikaldays.net/visitor](http://www.vertikaldays.net/visitor) and print visitor badge
- Queue in line and register upon arrival

### Networking event *(ticket required)*

Wednesday 22nd 18:30 to 20:30 in the Catering Pavilion

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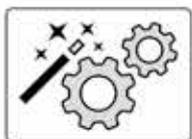
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# CSE SERIES SIMPLY NEW

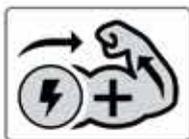


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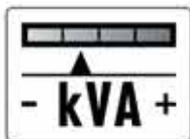
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# IN THE NEXT ISSUE OF **C&A**



Place your products in front of 17,000 crane, telehandler and access buyers & users who will be reading the next issue of **Cranes & Access**...

## 2021 Top 30 Rental report

Given the combined impacts of the Covid-19 pandemic and Brexit over the last 18 months, we see how the leading crane, powered access and telehandler rental companies in the UK and Ireland have fared in this year's Top 30 rental company guide. We'll be listing companies by overall fleet size, who runs the largest and investment over the past 12 months.



The issue will also include feature on:

## Mast Climbers

This annual feature will bring you up to date with the latest mast climber developments and new product launches. Have you got any news or information to add?



## All Terrain Cranes

Always plenty to talk about in the versatile All Terrain crane sector, increasingly the mainstay of crane rental fleets worldwide. We take a look at changes that have occurred over the past 12 months bringing you all the latest so if you have any news, we'd love to hear from you.



Send any information, news, photographs or ideas on these subjects to [editor@vertikal.net](mailto:editor@vertikal.net)

## Used Equipment

With reports of second hand car sales soaring amid a shortage of new models, we'll be looking at whether this trend is also being seen in used equipment for the access & lifting sectors.

Every issue of **C&A** is also packed with our **regular columns, news plus reader's letters, books, models, training**, along with the latest news from the **CPA, ALLMI, IPAF and PASMA**.

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# BIM coming of age

You may well have heard the term BIM before, the chances are you're going to be seeing it a lot more often, particularly in the construction industry.

**Building Information Modelling uses software to build a profile of a construction project with all manner of information from the materials used in the building, to the aerial work platforms required to maintain it.**

BIMs are 3D objects that can be inserted into design software and other project management tools used on construction projects and the subsequent maintenance of a building. An increasing number of crane and aerial lift manufacturers are creating custom BIMs for their own products so that architects and contractors can test and factor the equipment into a project while the design is still on the electronic drawing board. At the same time IPAF has been building a set of generic BIM models as an additional resource.

## Planning access equipment needs in advance

Building designers and engineers have been using Computer-Aided Design (CAD) software for more than three decades, but things have

moved on from the days of 2D digital drawings to 3D and now 4D building information models. BIM has many benefits, and not just for designers, but for construction and installation companies, facilities management contractors, and countless specialist trades. An entire project team can use PCs or tablets to access drawings, so everything is always up to date and shows the phasing of the project and any clashes in the design.

For many years, architects have been increasingly liable for the 'buildability' and practicality of their structures, while many European countries now require consideration to be given to the safe and efficient maintenance of such structures. BIM is a tool that helps architects to achieve this, and to demonstrate that they have achieved it.

To help architects and contractors construct working models of a building, suppliers of building materials and components have created digital and virtual versions of their products that can be added to a BIM library, enabling designers



Most major manufacturers have converted their product ranges into BIM models

to drag the items onto their virtual design models. In this way, all the details of the finished building, right down to the instructions for the heating system, can be held in a single file that not only tells the project team what to specify and how to build it, but also provides future owners with a digital operator's manual for the intended lifespan of the building.

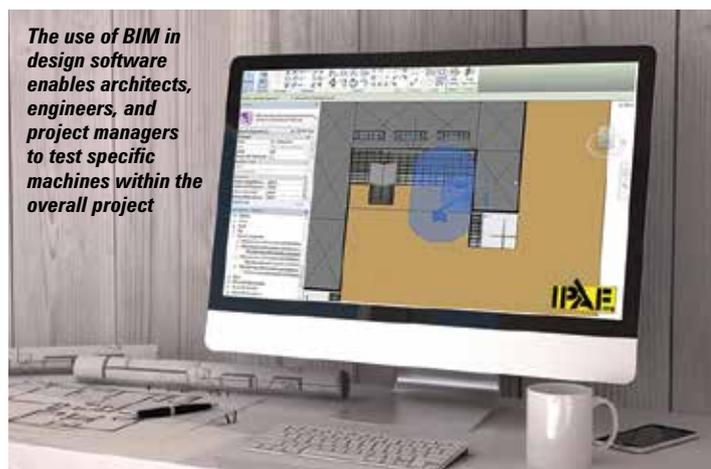
Over the past few years, this BIM approach has been extended to the equipment used for the construction and maintenance of a building. An increasing number of manufacturers have set up their own BIM libraries, and this has been particularly true for aerial lift companies as well as crane companies where the data can be tied into the lift-planning software used by an increasing number of crane rental companies. The International Powered Access Federation (IPAF) has also contributed seven generic

aerial work platforms to the UK's BIM database and says that it is committed to maintaining and updating this library with new machine types, including mast climbers and construction hoists.

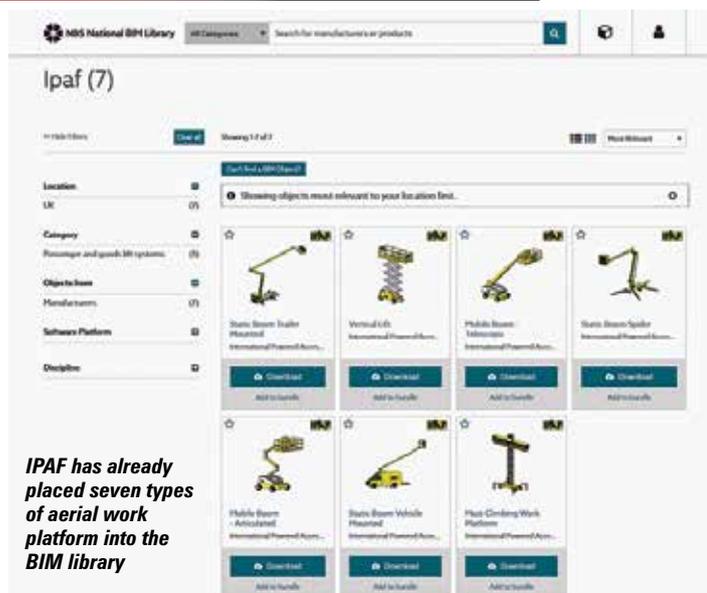
***"Architects are increasingly liable for the 'buildability' and practicality of their structures"***

Designers can now set out in their BIM models a requirement, for example, for a 10 metre boom lift for fixing steel during construction, or even changing light bulbs at specified service intervals. Either way, the platform selection can be specified in the building's digital file, both for the construction process and the building's life afterward, with the chosen platform's precise requirements specified and visualised in the BIM file.

IPAF chief executive Peter Douglas says: "IPAF's role is to promote safe working at height and to promote



The use of BIM in design software enables architects, engineers, and project managers to test specific machines within the overall project



**IPAF has already placed seven types of aerial work platform into the BIM library**

mobile elevating work platforms as the safest way of doing that. By adding powered access into the BIM library, we have made it as easy as possible for designers and contractors to know what machine to use and how to use it properly. Planning ahead is a key component of working safely at height using powered access, so what better way to do that than to fully model how machines will be used on-site at the design stage of any project?"

**'6D BIM' plots lifetime access requirements**

While the construction phase is important, the operational phase of a structure lasts far longer, and the use of BIM modelling could provide even greater benefits. An interesting example is the new HSBC bank headquarters in Sheffield, UK, built during Phase One of the Yorkshire city's Heart of the City II regeneration programme. The bank is the anchor tenant for the office and retail scheme, a £70.5 million project designed by Leonard Design Architects and built by BAM Construction.

BIM was used extensively on the 30,000 square metre development on an irregular, sloping site in the middle of the city, with limited space on all sides. BAM and Leonard used 3D modelling for the structure, Mechanical & Electrical, and facade installation, and included clash detection between trades.

The positions of the mast-climbing platforms and ties, used for fitting the cladding and glazing, were also set out in the BIM model. But the standout digital innovation was the use of aerial work platform models to plan for the building's operational phase, the so-called 6D BIM. Leonard used the digital aerial lift objects that had been uploaded into the NBS (National Building Specification) BIM library by IPAF, as director John Morgan explains: "The client's original plan was to fit a window cleaner system (BMU - Building Maintenance Units) around the building. However, permanent access solutions didn't lend themselves to this project due to factors such as a large open terrace and deep overhangs."



*BIM models are being used on the new HSBC building to plan ongoing maintenance methods*

**Mobile access more cost effective than BMUs**

"Typically, window cleaner systems cost more than they pay back during operation. So instead, we tracked aerial work platforms around the building using the BIM model, proving that access for them was always possible for the window cleaning work. This was the result of numerous workshops and coordination meetings to identify the most cost-effective and suitable method."

Morgan added: "It was extremely useful being able to access the objects in the NBS library and meant we could quickly assess which machine would be appropriate for this site, including the maximum reach. By reviewing the reach, we could accurately plot the location where the platform would be in use, using its maximum reach guidance to ensure the whole facade could be accessed safely and conveniently."

"Additional research and studies were performed with the manufacturers to appreciate the stability of the machines, given the steep slopes around the project. Soft landscaping locations were reviewed, as were external furniture locations, and tweaked where required. Overall, very few areas required major replanning as the reach of the platforms meant the façade could be accessed from the paved areas. The use of this technology is a fundamental part of our design. The benefits of including as many operational components into our BIM model as possible means we can assess how the end-user will maintain and use the building very early on in the design process."

"BIM libraries are an essential part of this, especially BIM Level 2 projects which require a high level of data to be inputted and passed on to the end-user. Having manufacturer information readily available in the BIM models is of huge benefit when it comes to compiling user manuals."

IPAF uploaded the first seven digital platforms into the NBS BIM library several years ago but has since added three further machine types. According to the NBS, there were around 600 downloads of the IPAF object in the past year.

IPAF's head of safety & technical, said that members are now working with their customers to demonstrate how the virtual BIM work platforms objects can be used. "This starts with planning from the ground up. Project teams can use a BIM

model to plan any work at height that is required, and then establish where a mobile work platform might be more appropriate as an access requirement, and then they can decide the best model type for the job. They can also use the BIM model for the programming, deciding when working at height is conducted, ensuring it is not clashing with, for example, other trade packages or materials deliveries. This should all help create a safer work site."

**BIM modelling cost savings**

Parker says that IPAF's BIM initiative has so far generated interest across northern Europe and the Middle East. "On the Ringeriksbanen road project in Norway, we have received feedback about cost savings from smarter scheduling by using the objects in their BIM modelling. There is increasing awareness of how BIM can be used with aerial work platforms, or of the benefits in terms of time and cost, and safety. IPAF is committed to maintaining and expanding the existing range of BIM models, using case studies to demonstrate how the wider industry can make use of them, and outlining how the use of BIM fits into good planning for safe work at height using powered access."



**IPAF's Brian Parker**

"In the UK the Health & Safety Executive (HSE) has issued a guidance note, writing employer's information requirements (EIR), which implement BIM on a project. The document has been drawn up by the HSE BIM4 group, whose members include National Grid, Network Rail, and Arcadis, and encourages the use of BIM to support improved safety practices and achieve compliance under the 2015 CDM Regulations. It encourages 3D models in the design phase to provide visual pictures and animations and 4D animations that show construction progress."

# Tadano releases new BIM models

Tadano has released new BIM data for many of its cranes. The 3D renderings can be found on [bimobject.com](http://bimobject.com), a BIM platform developed by Swedish company BIMObject.

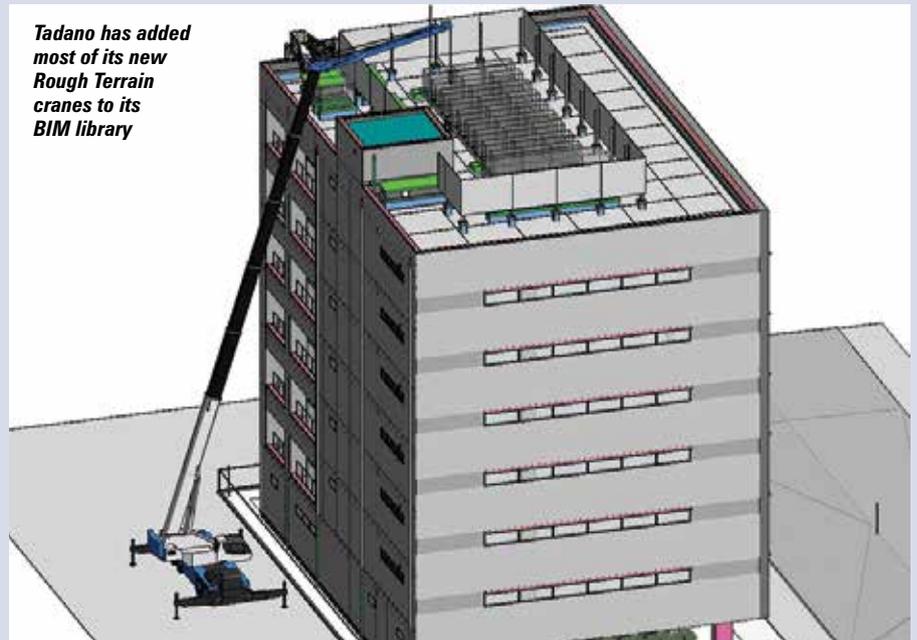
Kiewit Engineering Group is one contractor taking advantage of the information. It is using data rich, intelligent 3D models in its Virtual Design & Construction (VDC) process.

VDC construction manager for Kiewit, Ben Constable says: "The use of 3D models, and the information associated with them, will help our construction teams with work planning and scheduling in ways simply not possible with 2D conventional drawings. Many processes still centre around 2D paper plan sets, the industry needs to develop more information in 3D from the start."

Constable says that placing the VDC process at the core of their business is essential for dealing with risk as well as work planning, scheduling, and cost control and says it is paramount for their expectations moving forward.

"We expect crane industry tools and materials that have interoperability with other 3D modelling elements to be visually

*Tadano has added most of its new Rough Terrain cranes to its BIM library*



accurate, easy to use, and lightweight in terms of computer modelling resources," he says,

adding: "Tadano's recent approach to digitalisation can help solve the problems we are facing."

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# Virtual reality for building better products



*The virtual reality designs of new products are tested in a 5x5m 'game space'*

**Virtual Reality (VR) used to be a thing of science fiction, but today's increased computing power enables manufacturers to harness the technology to design, visualise and test virtual versions of a new product.**

**VR enables faults and potential defects to be ironed out before the product even hits the prototype stage. VR can also be used to train operators to use new equipment or practice maintenance procedures. With virtual reality, a workforce can be fully up to speed before the product enters service. We spoke with two of the engineers pioneering VR at French aerial lift and telehandler manufacturer Haulotte.**

Arnaud Chaigne is head of simulation and digital validation at Haulotte's Architecture, Calculation and Simulation department, while Antoine Navarro works as an engineer in the simulation and digital validation division. Both men spoke to C&A about the challenges and opportunities for the latest virtual reality tools and how they can aid the design, production, and maintenance of Haulotte's new products.

**C&A: How do you define virtual reality?**

Navarro: "It's a design tool that enables people to be immersed in a virtual world. At Haulotte, we use it to visualise the future machine at scale long before building the physical prototype."

Chaigne: "Computer aided design has been used for several decades in our design offices. Virtual reality takes it further by allowing many people to project themselves into a machine that will arrive in six months. We get feedback from the various departments like production and marketing before the prototype is even built."

**C&A: How do you use the technology?**

Navarro: "It's a virtual reality headset connected to a computer and two controllers. We use it in a small five square metre room which we call the game space. The user puts a helmet on covering their

eyes, and, thanks to the joysticks, they can move around the machine, go up in the basket, and see the different components."

"It's mainly used in the early phases of the design process by the engineering department for conducting design reviews and project reviews. It also helps in choosing scenarios for the machine's architecture. For example: should the engine be placed at the front or the back? With virtual reality, the various parties involved can decide this type of question very early on in the design process."

Chaigne: "We also work with the production department to validate the accessibility of tools during the machine assembly phases. We run scenarios on how the assembly stations work. With virtual reality, the operator can visualise how to assemble the components properly and check whether the necessary tool will fit. Finally, we work with the marketing department to present the future machines to customers and get early feedback at a point where changes or new ideas can still be incorporated."

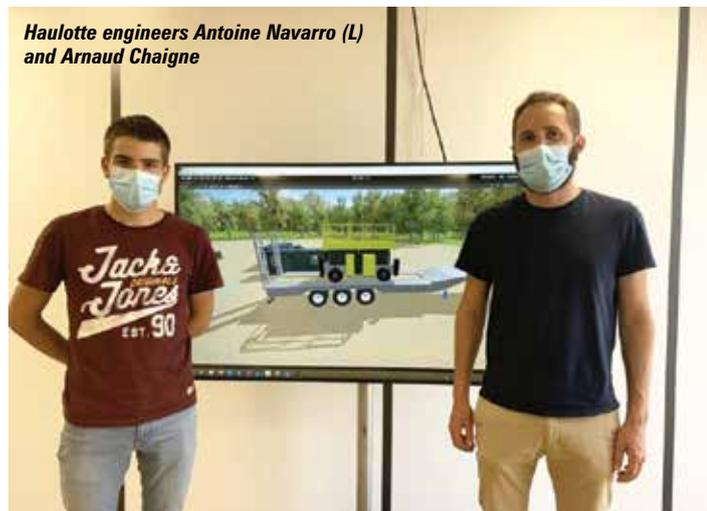
**C&A: How long have you been using virtual reality?**

Navarro: "Its use is relatively recent. We invested in equipment at the beginning of 2020, although virtual reality has been used for a long time in the automotive industry. It was democratised in 2014 with the first Oculus and HTC Vive headsets. I started working on the subject as part of my apprenticeship at Haulotte while in engineering school. We did some monitoring, then built a business model before investing in the tools."

Chaigne: "We are now using it to work on platforms that will be available over the next year or two. We are still in the test phase of the technology."

**C&A: What are the key benefits?**

Navarro: "The first benefit is the quality of discussions between employees. In front of a full-scale model, arguments make it easier for everyone to justify their choices, especially between the production and design offices. It is much more concrete and realistic. It enables us to consider the notions of perspective and



*Haulotte engineers Antoine Navarro (L) and Arnaud Chaigne*



*Haulotte uses a real space to represent the foot print of the real machine*



*Antoine Navarro puts a new design through its paces.*

size, for example. And it allows for a better understanding of the challenges and difficulties of other departments. Studies have shown that people develop their job reflexes more with virtual reality than with a 3D model projected onto a screen. And the fun aspect of these tools enables people to become more involved."

Chaigne: "The other benefit is productivity and quality. Virtual reality will allow us to make fewer physical prototypes and arrive at more optimised machines. As iterations are less costly in virtual reality, we can do more and reach the right compromise by testing more possibilities. The goal is always to have better, more completely designed machines."

**C&A: What other developments do you envisage with virtual reality?**

Navarro: "Very soon virtual reality will allow us to provide training for maintenance technicians, before a machine is even manufactured, allowing them to learn how to carry out maintenance or repair tasks

and even suggest simple changes that might make it easier. This can also be extended to production line workers, enabling them to train on specific steps before a machine is ready for the production line."

Chaigne: "We could equip sales subsidiaries with virtual reality so that customers can visualise the machines before buying them. It can also be used for training end-users through simulators. We are also monitoring augmented reality, which is already developing in the industry. While connected safety glasses could provide remote assistance for production line staff or maintenance technicians."

The speed of development of this useful design tool means that virtual reality will get faster, better and end up being involved in everything from the initial design to training engineers and operators of the new products. Not only will this save money, but it should also speed up the design process, bringing improvements to market far more quickly than the days before virtual reality came of age.



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## Safety Report highlights need for 'near miss' data

This year's IPAF Global Safety Report 2021, which analyses the causes of serious injuries and fatalities occurring when using aerial work platforms, highlights the need for more 'near miss' data to help avoid the most common types of serious accidents in future.

The report, based on incidents logged in IPAF's Accident Reporting Portal ([www.ipafaccidentreporting.org](http://www.ipafaccidentreporting.org)), show that the main causes of injuries and deaths has not changed significantly, although electrocution is now the most common type of fatality along with falls from the platform, with each accounting for 23 percent of deaths. This followed by entrapments at 19 percent and machine overturns at 12 percent. When the accident reporting project began in 2012 most input came from UK members, but reports are now received from as many as 25 countries.

IPAF's Brian Parker said: "The new format makes the report easier to digest and understand. It may be statistically interesting to compare the number of accidents occurring around the world, but it is more informative to look at machine type, configuration, location or industry sector that they are occurring in, and consider the underlying factors. This allows us to present key recommendations to factor in when planning powered access use, and develop technical guidance, safety posters, toolbox talks and relevant training courses to mitigate the specific risks identified. The reporting portal is now available in IPAF's main languages and is helping us gather data from more countries and industry sectors. I'd like to thank the members of our Accident Work Group - Mark Keily, James Clare, Alana Paterson and Chris Wraith - for helping understand and interpret the data gathered through the portal, without them this report would simply not have been possible."

"One thing that we all agree on is the need to focus on areas where we need more data, such as near misses - the seemingly innocuous mistakes that might have led to a serious outcome but didn't."

Visit: [www.ipaf.org/accident](http://www.ipaf.org/accident) to download the IPAF Global Safety Report 2021.



## New tools for ground rescue

The latest addition to the Andy Access poster and Toolbox Talk series focuses on nominated ground rescue persons and why they need to be familiar with platform's auxiliary/emergency lowering systems and understand the rescue plan.

Brian Parker said: "Platforms are all different, some may require more than one fit and able person to execute an emergency descent. As a key part of pre-use planning and risk assessment, it is important that a nominated ground rescue person learn and practise using the ground controls, auxiliary/emergency lowering controls and relevant procedures. Any delay in assisting the platform occupants can be critical."

They can be found at [www.ipaf.org/toolboxtalks](http://www.ipaf.org/toolboxtalks) and [www.ipaf.org/AndyAccess](http://www.ipaf.org/AndyAccess) and are free to download.



## Roger Wickens' Lifetime Achievement award

The family of Roger Wickens, this year's recipient of the Lifetime Achievement award, has been presented with the commemorative glass trophy following the virtual ceremony earlier this year. The award was accepted by his wife Anne on behalf of her late husband - who passed away in 2019 - at a lunch hosted by IPAF's Peter Douglas at Kilworth House, Leicestershire, one of the couple's favourite places.

"It was a pleasure to join Anne and son Richard for lunch along with former colleague Amanda Beckett to reminisce about Roger and his many years of service to powered access," said Douglas. "Roger was one of life's true gentlemen. I knew him for all of my 27 years with Nationwide Platforms and I would simply say he was a very lucky guy. He spent the whole time I knew him in a job he loved in an industry he loved. He had a huge impact not just on Nationwide, but the powered access industry as a whole. It is a real privilege to have been able to present Anne with this well deserved award in his honour."

Anne Wickens added: "I thank you from the bottom of my heart. Roger spent his entire working life in the powered access industry. To say he loved his work would be an understatement - it was his passion. I was always amazed at the huge amount of technical knowledge and knowhow stored in his mind which he readily shared with others. Nothing was ever too much trouble for him."



Peter Douglas and Anne Wickens

## No Europlatform 2021

This year's IPAF Europlatform conference has been cancelled. Peter Douglas said: "We are just not at a point in the pandemic where we understand what restrictions might be in place later this year, and feel it is the right thing to do. We considered a virtual event but have decided to concentrate our efforts on the IPAF Summit and awards in 2022."



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# New ALLMI website!

ALLMI has launched a new website, further enhancing the association's service provision to the lorry loader industry. The site can be reached at the usual URL of [www.allmi.com](http://www.allmi.com) and it brings a range of new features and benefits:

- **Enhanced user experience:** The site has been completely revamped and modernised in terms of both aesthetics and layout, providing a vastly improved user experience. This includes the site being fully 'responsive', allowing its format to convert as required when viewed on PCs, tablets and mobile phones.
- **Verify a Card:** A new 'Verify a Card' tool is designed to give employers, site personnel and other applicable parties the ability to verify ALLMI qualifications simply by entering key cardholder information.
- **Calculator tools:** The launch coincides with the release of ALLMI's new 'Lift Planning Calculator' tool. In addition, the 'Tools' page of the website provides links to the ALLMI App, where further calculator tools can be accessed covering both lift planning and thorough examination.
- **Careers:** A careers page is included within the site, to promote the lorry loader industry and encourage contact between prospective employees and member companies, as well as educational institutions and ALLMI.
- **Improved password-protected areas:** The secure, password protected areas for members, training providers and Appointed Persons have been improved, both in terms of structure and content.

ALLMI chief executive, Tom Wakefield said: "We are delighted to have completed this extensive project, enabling us to further improve our industry offering. As with everything that we do, we are keen to receive feedback and would welcome comments regarding the site's content and structure, as well as suggestions for any future developments."

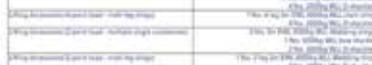
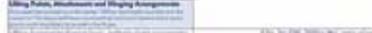
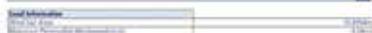
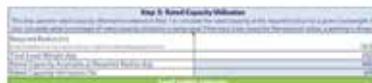
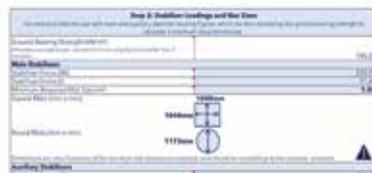


# 'Lift Planning Calculator'

The website's launch coincides with the release of ALLMI's new 'Lift Planning Calculator'. Developed for use by trained and competent Appointed Persons, the tool facilitates a range of calculations to assist with the lift planning process, covering issues such as stabiliser loadings, mat sizes, rated capacity utilisation, permissible wind speeds and sling selection.

ALLMI technical manager, Keith Silvester said: "Whilst we've had various tools available for many years, both within the ALLMI App and in the form of spreadsheets, this new tool not only combines them into a single user friendly document, but also provides additional features and calculations, as well as populating the results into a text template that can be copied directly to a lift plan set out in the ALLMI recommended format."

For a copy of ALLMI's Lift Planning Calculator, visit [www.allmi.com/tools](http://www.allmi.com/tools)



# Grapple Saws

During ALLMI's most recent Technical Standards Committee meeting, the use of lorry loaders for Grapple Saw application was discussed at length. This meeting was attended by a number of manufacturers, as well as a representative from the HSE, and the general consensus was that the use of Grapple Saws with lorry loaders created at least two possible hazards:

- Potentially impedes the operation of the overload protection and stability control systems.
- The risks associated with 'chain shot', especially when the operation is taking place in urban areas. This is the high velocity separation and ejection of a piece, or pieces, of saw chain when it breaks. Whilst ALLMI does not have expertise in this area, chain shot has been identified by the HSE as a potential issue.

As a result of this meeting, it was agreed that ALLMI would join an HSE / FISA (Forest Industry Safety Accord) Arboriculture Working Group to investigate whether any control measures could be put in place to mitigate the associated risks to a reasonable degree, although whether this is viable remains to be seen. The meeting also led to several manufacturers independently taking the view that they will refrain from supplying lorry loaders intended for this purpose, at least until the Working Group has concluded its research.

ALLMI will keep the industry informed as Working Group discussions progress, but in the meantime is seeking to raise awareness of the potential hazards associated with this application. Should you have any queries regarding this matter, then please contact ALLMI.



For details of ALLMI standards, guidance documents and training, visit: [www.allmi.com](http://www.allmi.com)



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# Countdown to zero: open invitation

As part of efforts to help achieve the UK's net zero emissions target, the CPA is urging its members and the wider construction industry to participate in an open dialogue on the topic of net zero. The CPA has become a partner of the Construction Leadership Council's CO2nstructZero programme to bring people and organisations together to create collective actions and plans for the sector and maximise the impact made.

Chief executive Kevin Minton, said: "To help achieve the net zero emissions target, it's vital that the construction industry as a whole plays its part. The CPA is fully committed to these reductions and is becoming fully engaged on the ambitious and transformational change programme required to meet the challenges that society and government expects from our sector, whilst ensuring it is carried out in a pragmatic and sustainable way. As well as bringing forward solutions, we have a principal role in ensuring that all proposals and plans are realistic, achievable and evidence driven. To support the effort, we are recruiting a technical officer to work full time on net zero carbon and emissions."

"As part of our next steps on the pathway to net zero carbon, we are extending an open invitation to our members and others to participate in an open dialogue on the topic, covering areas such as zero emission vehicles /onsite equipment, use of alternative fuels and power sources and implementing carbon measurement. When it comes to net zero, we must be a leader, not a follower, many of our members are already doing some great work around net zero, and we want to increase the visibility of these activities and share experiences."

Interested parties in the technical officer role or for those who would like to participate in the net zero discussions can contact Keven Minton on: kevin.minton@cpa.uk.net.



## Stars of the Future 2021

As Cranes & Access went to print, the judges were considering the nominations for the Stars of the Future Apprentice and Trainee Awards. The winners will be announced at the awards ceremony on Tuesday 14th September at the Heart of England Conference and Events Centre near Coventry.

Minton said: "We are delighted with the high number of entries for Stars of the Future 2021, despite the challenges that employers, training providers and apprentices have faced in recent months. The standard of entries has been exceptional, and the judges have a difficult task on their hands choosing the winners. The awards are intended to recognise and reward outstanding apprentices and trainees who not only bring ability and commitment to their learning and work, but also possess those extra capabilities which mark them out, not only as foundations of the future of the industry, but also potentially its leaders - the Stars of the Future."



## CPA publication updates

### Tower crane update

The CPA's Tower Crane Interest Group (TCIG) has updated the Technical Information Note (TIN) 036 - Tower Crane Electrical Supplies, Earthing Arrangements, Emergency Escape Lighting and Lightning Protection. The TIN 036 has increased from two to five pages to provide guidance to crane users about the provision of tower crane electrical supplies, emergency escape lighting and lightning protection and includes guidance on inspection and testing following installation and whilst in service.

TIN 036 can be downloaded free of charge from: [www.cpa.uk.net/tower-crane-interest-group-tcig-publications/](http://www.cpa.uk.net/tower-crane-interest-group-tcig-publications/)

### Hoist publication updates:

The Construction Hoist Interest Group (CHIG) has updated and amended publications CHIG 1101 and CHIG 0501.

#### CHIG 1101: Maintenance, inspection and thorough examination of construction hoists

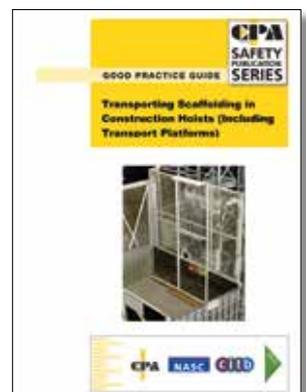
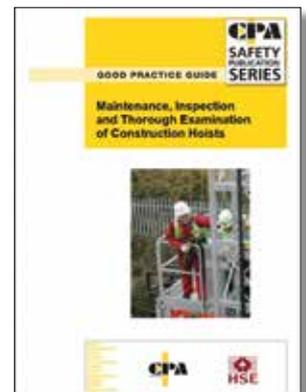
- is intended to help those involved with maintenance, inspection and thorough examination of construction hoists to achieve a better awareness of the processes involved and the good practice required to ensure that these are carried out effectively. It outlines the steps that should be taken in order to comply with the law. In particular the competence of maintenance personnel, key maintenance tasks, inspection and the process of thorough examination. It also includes check lists and report forms for pre-use checks, weekly inspections and thorough examination and should be read in conjunction with BS 7212: Code of practice for safe use of construction hoists.

#### CHIG 0501: Transporting Scaffolding in Construction Hoists (including Transport Platforms)

- produced in conjunction with the National Access and Scaffolding Confederation, the publication has been subject to minor amendments. It covers the use of hoists to transport scaffolding components while erecting or extending. Hoists used for this purpose are referred to as a temporary scaffolding transportation system (TSTS) to differentiate them from hoists used conventionally.

The updated publication provides guidance on planning, role of personnel, training and familiarisation, siting, safe use, as well as maintenance, inspection and thorough examination requirements. It further provides guidance to the hoist supplier on the procedures necessary before handing over the hoist to scaffolders.

Both publications can be downloaded free of charge from: [www.cpa.uk.net/construction-hoist-interest-group/](http://www.cpa.uk.net/construction-hoist-interest-group/)





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# New suite of tower training courses

Access towers are lightweight, can be assembled and dismantled quickly and provide collective fall protection at all times. They come in a variety of standard configurations so, with the right training, you can use different towers for different tasks. PASMA has revamped its range of training courses to cover more tower configurations than ever before. The following courses have been launched/ re-launched this year:

## Towers on Stairways for Users

This course covers stepped towers, which are designed to be used on a stairway – a spot where access is often tricky. They can also be used anywhere the ends of the tower will be at different heights. This course introduces delegates to techniques for working on stepped surfaces and enabling components such as portal frames and props.



## Cantilever Towers for Users

Cantilever towers are useful for overcoming obstacles, like stairwells, window apertures, riser shafts or porches, as they have a platform protruding from the side or end of the tower that gets you closer to the area you need to reach. This course introduces delegates to techniques such as using ballast to balance a tower and enabling components such as cantilever frames and frame links. Plus, delegates will learn to navigate the different safe working load capabilities of this type of tower.



## Linked Towers for Users

When you need a longer platform, two or more towers linked together can provide that extra space you're looking for. Linked towers provide a long, uninterrupted deck area and are most often used to span the facade of buildings, for work such as painting, plastering or replacing windows. This course introduces delegates to techniques for linking towers and enabling components such as walk-through or step through end frames.



## Towers with Bridges for Users

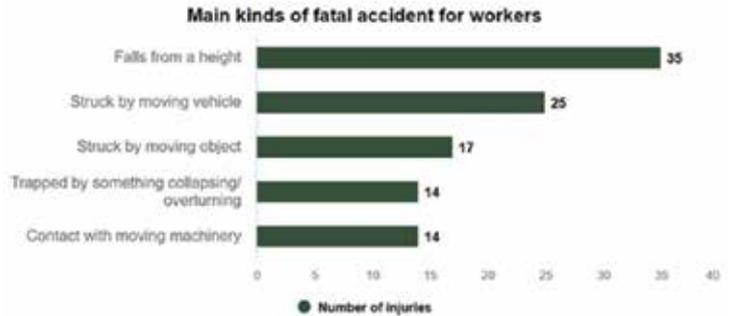
What if you need a longer platform, but there's an obstacle or access route at ground level? In this situation, you're looking for a tower with a bridge – that's two or more towers connected by a bridge. It's similar to a linked tower, in that it provides a long, uninterrupted platform area. The difference is it leaves a clear space at ground level so it can span an obstruction or leave an access route for vehicles or pedestrians. This course introduces delegates to new techniques for connecting towers and spanning obstacles, as well as enabling components such as bridge beams.



The courses are aimed at those who already hold a PASMA Towers for Users qualification and want to build on their existing knowledge to use towers in more flexible ways. PASMA training courses are available from approved training centres. You can find your nearest training centre at: [www.pasma.co.uk/directory/find-training-centre](http://www.pasma.co.uk/directory/find-training-centre)

# Annual fatality stats

The latest statistics from the UK's Health and Safety Executive (HSE) show that 35 people were killed in falls from height while at work in 2020/21, making it the most common type of fatal workplace accident for another year running. It is also six more fatalities than the previous year, despite months spent in lockdown.



SOURCE: <https://www.hse.gov.uk/statistics/fatals.htm>

# Man killed by falling tower in Brisbane

Andy Jones, 37, was killed by a scaffold tower which fell on him as he watched his son play an under 15s football match in Brisbane, Australia, on 25th July, reportedly in high winds. While the full facts are yet to be established, PASMA is reminding tower users of some general guidance for keeping mobile access towers upright:

1. Wind makes towers unstable and can cause them to overturn. If the average wind speed reaches 17mph (27km/h, Beaufort 4, or 7.6m/s), stop work and dismantle the tower.
2. Check the weather forecast before leaving a tower unattended for any length of time. If the conditions look set to become unsafe, dismantle the tower.
3. Stabilisers help prevent towers from toppling over. Even low level towers need stabilisers, if it's specified in the instruction manual.

While the cause of this incident is yet to be confirmed, this case highlights the fact that when towers topple, the consequences can be devastating. Andy Jones leaves behind wife Rhianne and their four children.



# PASMA at The Health & Safety Event

PASMA will exhibit at the Health & Safety Event at the NEC in Birmingham this September, as members of the Access Industry Forum (AIF) and No Falls Foundation.



For more information about the Access Industry Forum (AIF) and the No Falls Foundation charity for working at height, please visit: [www.accessindustryforum.org.uk](http://www.accessindustryforum.org.uk) and [www.nofallsfoundation.org](http://www.nofallsfoundation.org)

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# Link-Belt 175 AT

The Link-Belt 175 AT is a five axle All Terrain crane with a maximum capacity of 175 tons, which translates to 150 tonnes. This model has been produced by NZG in the popular scale of 1:50. A coloured pictorial instruction leaflet and separate parts list sheet is included.

Underneath this heavy model there is a detailed chassis, and the wheels have nice looking tyres. Each axle on the carrier can be independently steered to a reasonable angle so that any of the steering modes on the real crane can be reproduced. They also have working suspension with a good range of movement.

The carrier cab has a loop at the front to allow tying on the hook blocks during transport. Behind the cab, there are high quality mesh grilles and textured surfaces.

The outrigger beams are two stage metal, with very good details including tiny graphics. The outrigger jack rods are smooth with the pads having a pinning system so they can be adjusted for transport and operational modes. The range of travel of the jacks support the model free on wheels.

The operator's cab and superstructure are detailed with tiny

warning graphics, and the operator's cab can tilt a small amount. Hydraulic hoses run to the winches. The counterweight consists of a number of metal plates and parts, each with usable lifting lugs.

The main boom lift cylinder has a plastic barrel with an enlarged moulding that accommodates a locking grub screw. Although the system works, it is not as good as a metal barrel.

The boom has some nice detailing including tiny rope guides and all the sheaves are metal. Spooling drums are fitted to one side of the boom.

The swingaway extension comprises three separable metal parts, and it has a hydraulic cylinder luffing system allowing any offset angle to be posed. An auxiliary boom nose is also included. Two nice metal hooks are supplied, and a metal Link-Belt load plate is also included.

Overall, this is a high quality Link-Belt model by NZG. It combines

*On the road*



*Detailed small graphics*



*Self ballasting*



*Offset luffing swingaway extension*



*Lifting on the main boom*



fine detailing with mostly excellent functionality, with only the boom lift cylinder not as good as an all metal one. The costs is \$350 from the Link-Belt web shop. To read the full review of this model visit [www.cranesetc.co.uk](http://www.cranesetc.co.uk)

**Cranes Etc Model Rating**

Packaging (max 10)	8
Detail (max 30)	27
Features (max 20)	17
Quality (max 25)	21
Price (max 15)	10
Overall (max 100)	83%

# ZERO EMISSIONS ZERO NOISE 100% ELECTRIC

The **NEW 200 ATJ E** will work on a standard work cycle, for over one day from a full charge.



THE NEW **200 ATJ E**

# Fine for excavator access

UK livestock haulage company W Gibson & Son has been fined £18,000 after a self-employed farm worker fell three metres from an excavator. The man, 31, was carrying out maintenance on a barn roof at Mayvill farm, Scarborough, from a 'non-integrated' work platform when it broke free and fell to the ground. He suffered a fractured sternum, six broken ribs, a fractured bone in his back and three broken teeth.

HSE inspector Chris Tilley said: "Excavators should not be used under any circumstances for lifting people as they are primarily designed for excavating and consequently are capable of operating at speeds and movements which make them totally unsuitable for lifting people. Non-integrated work platforms should also not be used for pre-planned activities such as periodic maintenance. This incident could so easily have been avoided by properly assessing the risk and employing suitable work at height equipment, such as scaffolding or an integrated work platform, including powered access."

# \$450k for serious fall

Roofing company Charman Australia has been fined \$450,000 after a plumber fell through a roof while working on the construction of the new WA Museum in Perth, Western Australia, in 2019. It is one of the first sentences under the new regime in which companies can be fined up to \$2 million for breaches of workplace safety and health laws.

On the day of the incident roofing panels had been removed in order to install waterproof sarking boards. It had not been replaced when a second man inadvertently stepped on an unprotected sarking board and fell seven metres to the concrete floor below. He suffered a fractured shoulder and leg and was signed off from work for 13 months as a result.

WorkSafe western Australia commissioner Darren Kavanagh said: "All the equipment necessary to create a suitable fall injury prevention system was on site, along with a licenced rigger with specific expertise in creating these systems, and all roof plumbers had access to safety harnesses. Despite having controls available, no system was in place and this worker had a devastating fall."



A man fell seven metres through a roof at the WA Museum in Australia

# Barnhart installs ITI Learning Hub

US based Barnhart Crane & Rigging has installed an ITI Learning Hub to help with safety and skills training for its 1,600 employees across 50 locations. It includes the company's 'Qual Card' system, which includes knowledge and skills verification and now covers over 150 skill sets.

Jeff Latture, senior vice president sales & marketing, said: "We wanted to improve several aspects of our approach and delivery of employee training, so we reached out to ITI for help. We have worked with ITI since 2010, most notably as partners at our Memphis training centre, and in the development of its ASME-credentialed online Rigging Engineering programme."



# Double violation costs £64k

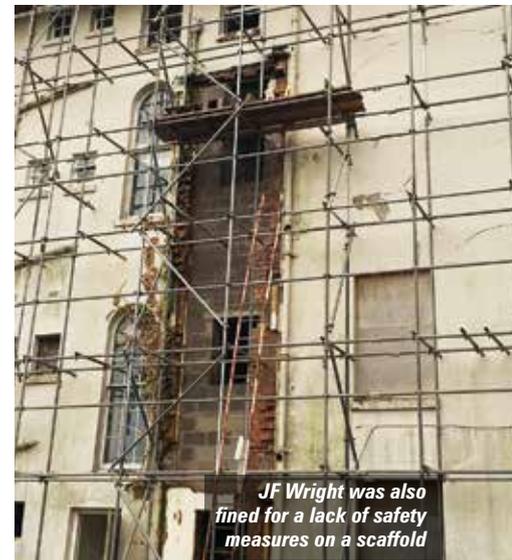
UK contractor JF Wright has been fined a £64,000 plus costs of £4,926 after the HSE uncovered a number of unsafe practices during a site visit in Malvern.

The first violation involved an All Terrain crane being 'operated in an unsuitable position'. Not only had the front end been jacked up more than two metres using an assortment of rough timber blocks, but it was also protruding into the public footpath. It was later discovered that no lifting plans had been made, nor a competent lift supervisor appointed. The company was also fined for working from a temporary scaffold platform at an approximate height of 10 metres without any safety measures in place.

HSE inspector Chris Gregory, said: "Although there were no incidents involved, there was the potential for serious injuries or fatalities in two different areas of work being undertaken at the time of the inspection. Those in control of work have a responsibility to ensure that workers are adequately trained, properly supervised, and work activities are appropriately planned, managed and monitored."



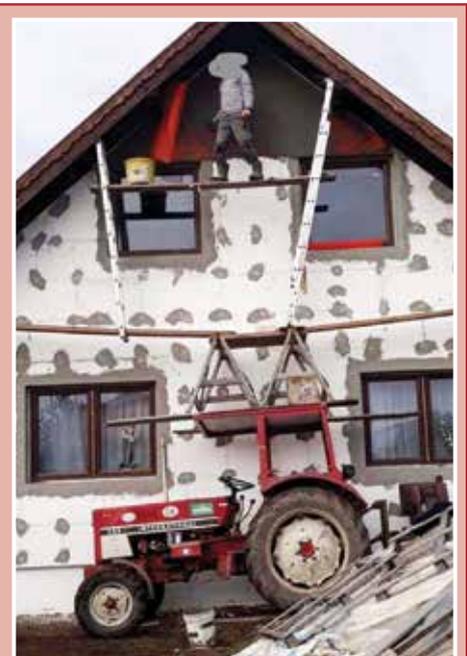
The front jack of the crane set up on an unsuitable cribbing arrangement



JF Wright was also fined for a lack of safety measures on a scaffold

# Who trained him?

Spotted in Switzerland, a man rendering the front of a property using a series of ladders, trestle tables and wooden planks, all precariously balanced on the roof of a tractor cab.



# Readers Letters



## Meddling with famous brand names is a minefield

Over the course of some 40 years, I have enjoyed close relationships with various generations of senior executives at both Demag and Tadano, as well as the rest of the crane industry. When asked, the advice I have given has always been factual and straightforward, including, most recently, at bauma 2019, when Tadano announced its acquisition of Demag. Those conversations remain strictly confidential, of course.

The past 18 months has been one of the toughest social and business environments we have seen, with plenty of 'bumps in the road' for many players in our industry. Nevertheless, it was with a great deal of trepidation that I read the April 7th announcement by Tadano that it plans to drop the Demag brand, one of the world's most-revered and widely recognised crane brands, especially as it came just a couple of years after the successful relaunch of the brand following Terex's realisation of its error in dropping it, back in 2004. Quite frankly, ignoring such a clear lesson from history startled me.

Branding matters are often fraught with danger and never as simple as they may at first appear. It's an area I know well from personal experience. When Grove acquired Coles and re-branded its European cranes as Grove-Coles, the Grove brand was almost fatally wounded and only regained any credibility when the Coles factory and its products were finally committed to the scrapheap. It was a decision made by my boss, Grove chief executive, J. Martin Benchoff. It was a decision he regretted for the rest of his life. Such matters are complicated and there are two sides to every argument. Amalgamating the Demag AC and Tadano ATF product lines was always going to be difficult – regardless of branding – and remains so. That's a sufficiently difficult mountain to climb without further confusion!

However, even more 'surprising' is Tadano's decision to drop the Demag brand from its lattice crawler cranes. In my opinion, the following facts are unalienable:

- Outside of Asia the Demag brand is the stronger for its All Terrain cranes and large telescopic.
- Despite being dropped for 10 years by Terex, the Demag brand remained one of the strongest and most highly respected for mobile crane technology – bar none.
- For the large-size crawler cranes, Demag is widely regarded as much of a market leader as Liebherr. Obviously, when it comes to large crawler cranes, the Tadano name has no resonance, and it will take decades to develop a reputation to match that of Demag.

Changing brands and nomenclature systems is a minefield. Surely, Terex's mistake in dropping the Demag brand for 10 years is evidence enough. Changes to the nomenclature, as announced by Tadano, can only add to further confusion and offers an 'open goal' to the competition. Frankly, I can see no overriding business benefit to Tadano's strategy. There are no easy answers and the only advice I would offer is to make as few changes as possible and take as much time as you can. In that respect it is unfortunate that this critical decision coincides with Mr. Koichi Tadano's decision to step down as CEO.

Stuart Anderson,  
President, Chortsey Barr Associates

*C&A: We published this letter on Vertikal.net and ran a poll asking readers what they thought, the question was: 'Do you think that dropping the Demag name from lattice boom cranes is a good idea?' When we closed the poll, 66 percent had answered 'No', 15 percent 'Not Sure' and 19 percent had responded that 'Yes' it was a good idea.*

## "Today I made the decision to cease trading with a customer"

Dear Leigh,

Today I made the decision to cease trading with a customer. So what? Well, the customer in question is a broker. A Pseudo Hire company with no tangible assets who sells across the UK and cross hires in from various sources, the length and breadth of the land.

The reason for no longer doing business with them was their insatiable drive for lower pricing of both hire rates and transport. This has been ongoing for some time, and they dangle the prize of potentially emptying one's yard. However, when the gloss is wiped away, the business and unending drive for lower pricing is not worth the effort.

There are a small nucleus of suppliers who will whore themselves to this broker in the belief that being busy fools is preferable to being less busy but more profitable.

However, we have seen such tactics as agreeing a hire, then sending the official order over with a different hire price for the equipment and a discrepancy on the transport. It seems that this tactic is now used on every hire.

When this is corrected, the broker sits on the invoice for the previously agreed price (which no longer matches their order) and doesn't communicate anything until the invoice is due for payment – some 60 days later! In the end, I have made the decision to close their account and walk away from their business, which has resulted in the refusal of six machines this week alone.

The point I'm making here is these types of business are killing the UK hire industry. The brokers wave big orders around for their databases that they have purloined from former employers but, in truth, they leech off the genuine owners of the assets and, over time, very cleverly slide themselves between the hire company and their own customers and, in doing so, they take a margin from the genuine hire company who almost always ends up with the same kit as they would have had anyway.

The best description we have heard is it's akin to fighting a battle against someone whom you've also provided the guns and the bullets!

These industry parasites don't own the equipment, they don't employ engineers or have trucks or workshops, but they are perfectly placed to take advantage of those who invest in these commodities. They are akin to a disease which needs to be eradicated before the UK hire industry is destroyed by appalling hire rates. They cream-off any meaningful profitability to the point of starving their own supply chain.

These individuals are too dull to realise that their suppliers need to make a profit and there is a growing resistance to wanting to deal with them, as all they are doing is driving down the rental rates for the owners of the assets to the point where certain lines becoming uneconomic.

Things must be done. I believe the leading industry players – and all of us – need to spread the word.

Regards,

Jim Longstaff

Chairman, Clements Plant & Access Hire

*C&A: We published this letter on Vertikal.net and ran a poll asking the question: "Are rental 'brokers' hijacking rental company margins?" The poll is still live and while the comments are mixed so far, 66 percent of readers have responded with 'Yes', 16 percent 'It Depends' and 18 percent 'No'. If you have a view you can still vote. Note: The vote was initially affected by a glitch that managed to prevent voting with a mobile device. This has now been fixed.*

## Reaping what you sow

Dear Leigh,

I enjoyed your comments in the front of the recent Cranes & Access. Like many parts suppliers to access and material handling equipment, we have seen our business drop to 20 percent of normal, before rising to 20 percent above normal in less than 12 months. The difference in the way many manufacturers have handled this has been very interesting and it is now shaping our future strategy with them.

There has been a big push in manufacturing to JIT (Just In Time) supply and we have all got used to rapid deliveries. By its nature, JIT does not cope with big fluctuations – my view is, in most cases, JIT has just pushed stockholding to another point in the supply chain and current logistic and raw material issues are showing this.

Just In Time success depends largely on precise coordination between a manufacturer and their suppliers. My experience in off highway machines is that model variation and customisation, combined with poor forecasting, make this an almost impossible way of working in off-highway, but no one is bold enough to say this out loud.

Best Regards,  
Peter Church  
FB Chain

Dear Leigh,

I hope you are well and enjoying summer.

Just have been reading with pleasure your comment in C&A. Loved it.

See you soon,  
Mark

C&A: Always nice to hear

## Arthur Arundel 1924 – 2021

The following letter was received from crane veteran Dick Lloyd informing us of the passing of Arthur Arundel.

Arthur Arundel, who died on 12th June, spent most of his life working as UK southern area sales manager for Priestmans of Hull. He was a true gentleman for whom all of his customers had a great liking and respect. He was never a high-pressure salesman, but he quickly earned a reputation as a man who kept his word and looked after the interests of his customers. To quote his grandson, Thomas: "He was brave beyond words, calm and good humoured under pressure, quietly confident of his ability to deal with all of life's ups and downs and appreciative, sensitive and courteous to everyone he met."

Arthur was born in Hull in 1924. At the outbreak of World War II, he volunteered to be a bicycle courier, before joining the Royal Navy as a radio operator on a frigate tasked with protecting Atlantic convoy. He worried that, should the ship go down, he might be forgotten in his tiny, isolated cabin. However, Arthur was re-assured by the words of one of his officers: "We will never forget you, Yorkie".

At the end of the war, Arthur joined Priestman as an apprentice, before moving to the sales force. His personal devotion to this long-established manufacturer of cranes, grabs and excavators, founded in 1879, became his life. He remained with Priestman until its collapse in 1984.

As a young man, Arthur played football and hockey for the firm and met his beloved wife, Mary, who also



C&A

letters

worked for Priestmans. In 1979, he was promoted to southern area sales manager. He moved south and lived there with his wife and family for the rest of his life.

I got to know Arthur well when I ran both home and export sales for six months. I appreciated his character and qualities. I witnessed the ill-judged attempt of a brash foul mouthed Hymac salesman trying to steal one of Arthur's customers, a very religious man who neither drank alcohol nor smoked. He was thrown out of the customer's office, followed by a phone call to the boss of Hymac saying that he only dealt with people whom he knew and trusted.

After the collapse of Acrow, Arthur and I had a joint meeting with James Priestman, the erstwhile chairman who been dismissed by Coles Cranes, to try and raise funds to rescue the business. Sadly, we failed and both Arthur and I had to find alternative employment. Due to his reputation, Arthur was soon back in employment with a German firm who needed his experience in the UK market

I visited Arthur and Mary a few times after our respective retirements, but sadly not after he started to suffer from dementia in his later years. I feel very privileged to have been asked by his family to write this obituary.

Dick Lloyd



## David Alfred Wilson 1937 – 2021

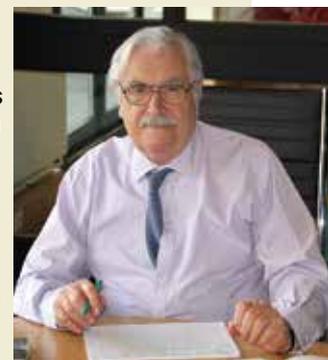
David Wilson, a joint founder of UK rental company Charles Wilson Engineers, has died aged 84. He passed away peacefully in hospital on Saturday 21st August.

Charles Wilson Engineers was established in 1978 as the result of a partnership between Charles Gallagher and David Wilson, using an unusual blend of their two names. The company went on to build a brand using the CW initials – CW Access Rental, CW Tools Hire, CW Event hire etc.

The company began life in a small house in the Southdown area of Harpenden, Hertfordshire, before the business set up properly in Harpenden High Street where it has maintained its headquarters and a depot to this day. David Wilson and team entered the access market very early on, with alloy scaffold towers, but

quickly spotted the potential for powered access, adding trailer lifts, scissors and booms in the 1980s, and becoming an influential player in the market. Along the way, the company added telehandlers and now runs a substantial fleet. As the company grew, it expanded geographically to offer national coverage from 18 locations across the UK.

David Wilson was the quintessential English gentleman in every way. He was professional, always on top of the situation, a hard worker and an inspiration to all those he worked or came into contact with. He leaves behind wife Kay, two sons Mark and Adrian and daughter Sara.



## Craig 'Vinny' Morelli 1969 – 2021

Craig Morelli, compliance & quality manager at the Lifting Equipment Engineers Association (LEEA) passed away in late July, following a short illness. Craig had been diagnosed in June with Sporadic CJD, a rare degenerative prion disease that affects the brain. He was only 53.

Craig had been with the LEEA since 2011, joining as training officer, moving up to senior training officer in 2014, and then taking on his most recent job in 2018. He began his career in 1987 with the British Army as a recovery mechanic, completing 24 years of service before joining the LEEA.

A statement from the LEEA said: "Craig was a consummate professional,



meticulous and conscientious in every role that he performed. Many lifting equipment professionals around the world have been trained and mentored by him over the years. He was passionate about our industry and was extremely proud of his role in lifting standards and increasing safety."

"Craig will be missed enormously by all of us. We will recognise and celebrate the immense contributions he has made, and he will always be very fondly remembered. Our thoughts and prayers are with Craig's wife, Maxine, and his family at this very sad time."



**John William Gillespie 1952 – 2021**

**John Gillespie, a leading light of the Australian crane industry, has passed away after a long battle with leukaemia.**

John was managing director of leading crane rental company Gillespies Crane Services and a director of other group companies until 2019. He was also president of the Crane Industry Council of Australia (CICA) for 16 years, stepping down in 2014, having served the association for more than 35 years. In 2002, he was awarded CICA's Con Popov Memorial Award for outstanding industry service, and in 2010 received a CICA Life Membership award. He had also served as president of the Crane Industry Association of New South Wales.



Gillespie joined the family crane business straight from school in 1969. Learning as he went, he worked his way up through the company, from cleaning up around the yard, dogging/rigging, crane driving and anything else that was needed. While in his 20s he was catapulted into a position of responsibility with the premature death of his father. By the time he retired, Gillespies Cranes was the oldest crane company still operating in Australia.

A statement from CICA said: "CICA's progress and growth under John's leadership was phenomenal. Industry representation activities, member benefits, membership numbers, revenue and assets are at record levels. On behalf of CICA, John was a strong advocate for and participant at International World Crane & Transport Alliance Meetings, this helped to create the International Crane Stakeholders Assembly (ICSA). John's service, industry leadership and passion to improve the crane industry is legendary, earning him much respect within Australia and internationally."

"John continued to be an advocate for involvement in the industry association. When asked what advice he would give to a newcomer to the industry he said firstly: 'Are you mad? Don't do it!', then: 'Seriously though, get involved with the association as it gives you the opportunity to help drive change and improvements. More contributors are always needed and welcomed. The industry can't continue to rely on a small number of volunteers, or the same few people that always seem to make the time to contribute'."

"John's positive outlook on life was undiminishing. In 2021 he received a replacement pacemaker and wanted to know how long the battery life was. The doctor told him 15 years, for which he said amidst going through chemotherapy, 'I have a new goal!!' Sadly, his fighting spirit could not overcome physical illness and John passed away peacefully on 17 August 2021. Our thoughts and condolences are with John's wife, Helen, sons Tom and Stephen, and daughter Carla, their partners and children."

CICA chief executive Brandon Hitch added: "Others in the industry have known the life of John Gillespie better than me, but from what I experienced in the 10 short years I have been in the crane industry, he was a great man. When people are walking among us, eating, laughing, sharing advice, we don't realise the immediate impact they have in bettering us. It is only in their absence that we look back and remember them, partly in

order not to forget, but also to attribute their influence on our improved character."

"Oddly, what I learned from and cherish about John is not about cranes or lifting. How John influenced me most was in leadership, generosity, and a positive, resilient outlook. He was someone who didn't need me, he had enough friends, but before he went back to get his second bone marrow transplant in May 2021, he took the time to call me. He let me know that he had pulled out a picture from 2017, that my then six year old daughter drew for him when he was recovering from his first bone marrow transplant. He said it made him smile that day. By his character, he gave me an example to share with my daughter at dinner, of how the impact of our actions can positively influence others. Three weeks ago, he spoke to her again and he told her he was struggling, but not ready to give up. John made time for people."

"John's exceptional, loyal and outstanding service and contribution have provided immeasurable benefit to CICA. The association would not be here today if not for the work of our five Life Members. Sadly, over the last 18 months, we have lost three of them."

"John was both a friend and a mentor to me. I will honour his legacy by grieving, remembering and living out a life that has been influenced by the time he graciously gave to me."

C&A: Publisher Leigh Sparrow added the following remarks:

*John Gillespie was a wonderful individual who was consistently positive and always trying to do the best for the crane industry worldwide. He always made a point of stopping by the Vertical stands at major trade shows like bauma and Conexpo and talked as though he had flown in specially to see you. John could talk when he was in the mood!*

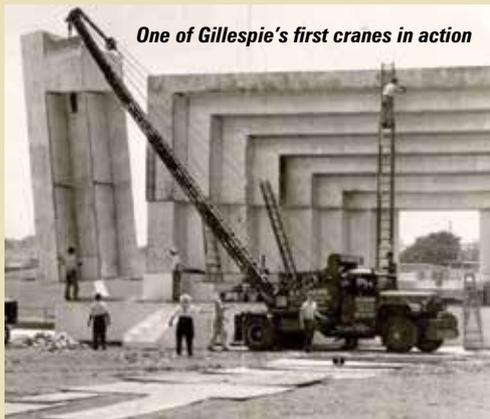
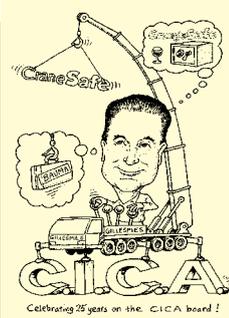
*This news is both unexpected and tragic, and, possibly, most upsetting is that I was oblivious to the fact that he had even been ill. I should have guessed something was up as I hadn't heard from him in a very long time and that was simply not like John. We weren't really close, the geographic distance probably put paid to that, but he was always sending in bits of news, making a comment, asking an opinion, and more often giving an opinion and suggesting we take something up.*

*I think my first encounter with him was when one of the company's 250 tonne cranes had punched through a concrete floor and overturned in Castle Hill, north of Sydney. John was gracious open and explained exactly what happened and even contributed additional photographs. He was keen that others should learn from the incident at a time when most crane company owners or managers did the absolute opposite.*

*John Gillespie was a first-class individual and most definitely one of the good guys. The industry and the world is poorer for his passing. There will be a chair waiting for him on our stand at bauma next year.*

Leigh Sparrow

A recording of the memorial service is available to view until the end of November. It can be found on: <https://view.oneroomstreaming.com/>



One of Gillespie's first cranes in action



(L-R) Reg Eggleton with John Gillespie and Anthony Davis on the awarding of CICA Life Membership in 2010

**David Single 1953 – 2021**

**In mid-July we received the sad news that Australian aerial lift and telehandler veteran David Single passed away following a long battle with cancer. He was 68.**



For the past seven years or so, David had worked as an industry safety consultant, interspersed with spells in hospital from where he would continue to work. He was a regular contributor to Vertical.net in terms of information, ideas, suggestions and, from time to time, constructive and well-founded criticism.

The news of his passing came overnight when his son Neil posted this message: "Dad passed away this afternoon after a long battle with illness. He asked me to write this post after his death and to thank everyone for their friendship and support over the years. He will be missed terribly."

David Single began his access career as national service manager with Crown Equipment based in Sydney, initially with forklifts and lift trucks. He then moved into Crown Access Equipment division, which at the time included Talon Access Equipment. David also helped set up Crown's service operations in Singapore. In 1990, Crown sold Talon to Snorkel to become Talon Snorkel, and David moved with it, becoming operations manager. His role included product development for Australia and Asia, as well as responsibility for the service, training and technical support teams in the region.

In 2004, he joined JLG Australia with responsibility for new product development, product marketing, sales and training before being promoted to national service manager in 2007. He also played a significant role in the development and refinement of the Australian Standards for telehandlers and assisted with the Singapore aerial lift standards. During his time with JLG, he served as vice president of the newly formed Telescopic Handler Association (TSHA).

In 2014, David was obliged to retire from his job at JLG. Speaking at the time, he said: "I have retired from JLG as international and interstate travel has become extremely difficult after complications after back surgery. JLG is fantastic company that gave me every advantage and opportunity to grow the stature and respect of myself and JLG within the development of Australian Standards and development of Standards and Codes of Practice in other regional countries. The opportunity to have access to regulators to discuss issues affecting our powered access and telehandler industry and starting from my Snorkel days to continue the product training with regulators and include the other manufacturers in the process has allowed a better understanding and interaction with the regulators. This really proves the quote, "the sure way to miss success is to miss the opportunity". To gain the success with the regulators and other industry groups, we first need to make the opportunity."

Shortly after becoming an independent consultant, Australia's Elevating Work Platform Association (EWPA) made David concept leader for the 'EWP Incident Investigation Document Australia'. Speaking of the task when it was completed in 2015, he said: "We identified the need for a document similar to those used by airline investigators, for inspecting or investigating an aerial lift incident. There are many 'experts' around Australia, and their investigation experience needs to be used provide a competent investigation checklist document. With the go ahead from the EWPA, my task was to bring together a group of EWP industry experts to develop and complete the 'EWP Incident Investigation Document'. This has been completed and ready for release by the EWPA at the Adelaide 2015 HRIA Conference."

"I thank all the industry persons that provided input, support and reviewed the document. For the guys that came to my home, as travel for me is difficult, and provided personal support, I thank you all. During a difficult personal time dealing with the two cancers at once and anaemia, the hospital visits, and early forced retirement at 61, this project has been a great distraction, even though I was the instigator before the news of cancer was confirmed. Sitting in a hospital bed with a laptop and working out details of the document has been a great distraction. My wife has been so patient with me invading her space, being stuck at home. Now it is on with the adaption of the document for other markets."

David Single was a very special person. He knew the aerial lift industry inside out and was one of the foremost experts on safe use and safety standards. While he had a complete command of the theoretical side, and was incredibly diligent, he was also very practical and rooted in the real world of getting the job done.

On top of all this he was a thoroughly decent and open human being. Although David was tough and 'to the point' - he could curse with the best of them at the sight of abuse and misuse of aerial lifts - he was truly a nice person. His passing will be mourned by the hundreds of industry people around the world that knew or worked with him over the years. The industry has lost a class act.





## The New 16 metre All Electric boom lift

This exciting new telescopic boom lift is developed by and now in stock at:

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Contact

Tel: +31 162 490000

Email: [info@aichi.eu](mailto:info@aichi.eu)

[www.aichi.eu](http://www.aichi.eu)

### Alf Odrell 1940 – 2021

**Swedish/Nordic access industry veteran Alf Odrell sadly passed away on August 9th, just six weeks after his 81st birthday.**

A larger-than-life character, Alf Odrell began his access career in November 1974 when he joined the European division of the UpRight group. At the time, UpRight traded in Europe as Vectur. Alf was based in his home country of Sweden and his job was to sell the company's alloy tower and other access products, including the company's self-propelled scissor lifts that were just coming on stream. As part of his remit, Alf was instrumental in setting up the company's Swedish subsidiary – Vectur Aluminiumställningar – in Gothenburg.

As the business developed, Alf adopted a different approach to all of the other European distribution subsidiaries, which ran sales alongside rental operations. He firmly believed in selling both the towers and the scissor lifts to rental companies, and therefore not competing with them. His policy yielded positive results and over the next two decades he overcame local and international competition to make UpRight/Instant the market leader in Sweden for both alloy scaffold towers and, by the 1990s, scissor lifts as well.

In the 1990s, the decision was taken to sell off the European distribution companies and operate purely through independent distributors. Having helped sell the Swedish operation – which had been rebranded as Instant Sweden some years earlier – to Stockholm-based Zip-Up Svenska, Alf Odrell said: "Well there is no need or place for me now, so you had best make me redundant and I will take early retirement." However, Alf was given an immediate 'no' and became the company's district manager for the Nordic region. His connections with Finland's A-Rakennusmies, which became Ramirent, spearheaded UpRight's early move into the Russian market, becoming one of the very first Western aerial lift manufacturers in the country.

When UpRight was acquired by Tanfield, and then merged with Snorkel, Alf remained on board as a valued member of the sales team. Finally, in 2011, at the age of 71, and after 37 years with the business, he retired. However, Alf couldn't keep away and while tagging along with a customer group visit to Italy the following year, he promptly agreed to help Cela with its sales efforts in Scandinavia, becoming involved in the truck mounted lift market. Eventually, he faded out of that role but always turned up at trade shows and kept in touch with his old customers. As an occasional gambler, Alf's favourite exhibition was Conexpo, purely because it was held in Las Vegas. Sadly, he missed last year's event due to the growing dangers of Covid, along with some ongoing mobility issues.

Many years ago, when still in his prime, Alf suffered a heart attack. In typical Alf-style, he bounced back, and it hardly seemed to impact his life, as he resumed his work patterns and appeared to abandon some of the spartan diets and recommended regimes.

Alf Odrell was one of life's characters. He was a one off, enjoying life and people, often making a real difference. When UpRight Ireland engineering manager Brian Madden retired in 2006, he thanked some of the colleagues that he had worked with over the years. When it came to Alf, Brian said: "Alf Odrell, the irrepressible Prince of Sweden, who combined super salesmanship with immense personal warmth, and a gift for people". That was the true Alf Odrell and the access industry has lost another true character.



Alf Odrell earlier this year



Alf Odrell with long term co-worker Lasse Sunnergren (L)

# What's on

## 2021

### Crane Safety 2021

September 08, 2021  
Crane safety conference organised by the Institution of Mechanical Engineers & supported by the Vertikal Press Virtual, UK  
Tel: +44 (0)207 973 1251  
www.events.imeche.org

### Platformers' Days 2021

10 to 11. September German access and lifting show Karlsruhe, Germany  
Tel: +49 721 3720 5096  
www.platformers-days.de

### Construction Days

September 14-16, 2021 New earthmoving and general construction event for the French market. Lyons, France  
Tel: +33 1 76 77 15 35  
www.construction-days.com

### PASMA Conference 2021

15-16 September Free conference from the scaffold tower association Nottingham, United Kingdom  
Tel: +44 (0) 345 230 4041  
www.pasma.co.uk/conference

### Vertikal Days 2021

22-23 September UK/Ireland Crane, access and telehandler event. East of England showground, Peterborough  
Tel: +44 (0) 8448 155900  
www.vertikaldays.net

### The Utility Expo

September 28-30, 2021  
Previously The International Construction & Utility Equipment Exposition / Demo Expo - is the US utility industry's largest show Louisville, Kentucky, USA  
Tel: +1 414-274-0644  
www.theutilityexpo.com

### 13th Internationale Schwerlasttage

October 01/02 - 2021  
German heavy haulage and lifting meeting Hohenroda, Hessen Hotel Park, Germany  
+49 6181 9060705  
www.schwerlasttage.de

### GIS

October 07-09, 2021  
Italian crane, access and heavy transport exhibition Piacenza, Italy  
Tel: +39 010/5704948  
www.gisexpo.it

### The ARA Show 2021

October 18-20 2021  
ARA convention and rental show Las Vegas, Nevada, USA  
Tel: +1 800 334 2177  
www.arashow.org

### SC&RA Annual Conference

October 25-29, 2021 Annual Conference of the US crane and heavy transport association including the Jobs of the Year awards. La Cantera Resort, San Antonio, Texas, USA  
Tel: +1(703) 698-0291  
www.scranet.org

### CICA Conference 2021

November 3-5, 2021 - to be confirmed  
The annual conference of the Australian crane association - possibly the best crane conference in the world.  
Perth, Australia  
Tel: +61 03 8320 0411  
www.cica.com.au

### Smopyc 2021

November 17-20, 2021  
Spanish construction equipment exhibition Zaragoza, Spain  
Tel: +34 976 764 700  
www.feriazaragoza.es/smopyc-2020

## 2022

### Baumag

1 January 13-16, 2022  
Swiss construction equipment show Lucerne, Switzerland  
+41 56 204 20 20  
www.baumaschinen-messe.ch

### Swissbau

18-21. January 2022  
Swiss construction and building show Basel, Switzerland  
Tel: +41 58 200 20 20  
www.swissbau.ch

### Executive Hire Show

February 09-10, 2022  
UK tool and small rental equipment show Ricoh Arena Coventry, UK  
Tel: 0207 973 4630  
www.executivehireshow.co.uk

### Conexpo-Con/Agg 2023

March 14-18, 2023  
The leading US construction show Las Vegas, Nevada, USA  
Tel: +1 414-298-4133  
www.conexpoconagg.com

### LiftEx Middle East

March 21-22, 2022. The first Mid East conference of the Lifting Equipment Engineers Association Manama, Bahrain  
Tel: +44 (0) 203 488 2865  
www.liftex.org

### Hire 22

May 25-26, 2022  
Annual convention and exhibition of the Hire and Rental Association of Australia and the Elevating Work Platform Association Adelaide, Australia  
Tel: +61 (0)2 9998 2255  
www.hire21.com.au

### Interschutz 2022

June 20 -25 2022  
International fire and rescue show Hannover, Germany  
Tel: +49 511 89-0  
www.interschutz.de

### Liftex conference

October 5-6 2022  
Annual conference of LEAA Lifting Equipment Engineers Association Aberdeen, UK  
Tel: +44 (0) 203 488 2865  
www.liftex.org

### Bauma 2022

October 24 -30th 2022 World's largest construction equipment exhibition, Munich, Germany  
Tel: +49 (0) 89 51070  
www.bauma.de

### Bauma China 2022

November 24-27, 2022  
SNEC Shanghai, China  
Tel: +49 (0)89-9492051  
www.bauma-china.com

### Bauma Conexpo India

December 06-09, 2022  
The bauma/Conexpo exhibition in India Delhi, India  
Tel: +49 89 949-20255  
www.bcindia.com

## 2023

### Baumag

January 26-29, 2023  
Swiss construction equipment show Lucerne, Switzerland  
Tel: +41 56 204 20 20  
www.baumaschinen-messe.ch/html/home.htm

### The ARA Show 2023

February 12-15, 2023  
The American Rental Association's annual conference and exhibition Orlando, Florida, USA  
Tel: +1800 334 2177  
www.arashow.org

### Samoter

March, 2023  
International earthmoving and building equipment show Verona, Italy  
Tel: +39 045 8298111  
www.samoter.it/it

## 2024

### Intermat 2024

April 22-27 2024 The big French international construction equipment show Paris, France  
+33 (0)1 76 77 15 21  
www.paris.intermatconstruction.com

### Apex 2023

June 06-08, 2023  
International powered access trade show Maastricht, The Netherlands  
Tel: +31 (0)547 271 566  
www.apexshow.com

Visit: [www.Vertikal.net/en/events](http://www.Vertikal.net/en/events) for a full listing of events with direct links to the organisers.

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- Organize, plan and conduct product training/demos/familiarization for customers either at the customer premises or at Skyjack facility.
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Linked in profile: [linkedin.com/in/riaan-geldenhuys-4716a635](https://www.linkedin.com/in/riaan-geldenhuys-4716a635)  
**Email: [riaan.geldenhuys01@gmail.com](mailto:riaan.geldenhuys01@gmail.com)**



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<p>I no. Full-time, permanent contract £24-28k salary depending on qualifications &amp; experience. Based in our Sheffield, UK Hire centre. The role includes;</p> <ul style="list-style-type: none"> <li>• Managing designated key accounts.</li> <li>• Organising Operational &amp; Transport needs.</li> <li>• Performing to agreed targets &amp; meeting deadlines.</li> <li>• Developing new business and potential accounts.</li> <li>• Liaise with suppliers to negotiate and manage supply chain.</li> </ul> <p>Career advancement opportunities are available for the right candidate.</p>	<p>I no. Full-time, permanent contract £30-35k salary depending on qualifications &amp; experience. Based in our Sheffield Training centre, with some on-site work. Company Car &amp; expenses are provided. The role includes;</p> <ul style="list-style-type: none"> <li>• Delivering IPAF &amp; PASMA training.</li> <li>• Organising in-house Training for staff &amp; exploring potential new training revenues.</li> <li>• Performing to agreed targets and developing new business and potential accounts.</li> </ul> <p>Career advancement opportunities are available for the right candidate.</p>

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[serviceuk@cndingli.com](mailto:serviceuk@cndingli.com) in strict confidence.

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ATN	www.atnplatforms.com
Barrn	www.barrn.it
Biljax	www.biljax.com
Böcker Maschinenwerke	www.boecker.de
Bravi	www.bravisol.com
Bronto Skylift	www.brontoskylift.com
CLM Construction Supplies	www.clm-supplies.com
CMC	www.cmclift.com
Co.Me.T	www.officinetomet.it
CPL	www.cumberlanduk.co.uk
CTE	www.ctelift.com
DENKA-LIFT	www.rothlehner.com
Dino Lift	www.dinolift.com
Dingli	www.cndingli.com
Easylift	www.easy-lift.it
Falck Schmidt	www.tcalift.com
GEDA	www.geda.de
Genie	www.genielift.com
GSR Spa	www.gsrspa.it
Haulotte	www.haulotte.com
Hinowa Tracked Aerial Platforms	www.hinowa.com
Holland Lift	www.hollandlift.com
Imer Access	www.imergroup.com
Instant UpRight	www.instantuprightlifts.com
Isoli	www.isoli.com
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JCB	www.jcb.com
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Klaas	www.utility-equipment.com
Klubb France	www.klubb-france.fr
Ladder Safety Devices	www.laddersafetydevices.co.uk
Leguan Lifts	www.leguanlifts.com
Manitou	www.manitou.com
Mantis Access	www.mantisaccess.co.uk
Mantall	www.mantall.com
Matilsa	www.matilsa.es
MEC	www.mec-awp.com
Niftylift	www.niftylift.com
Oil&Steel	www.oilsteel.com
Omega Platforms	www.omegaplatforms.com
Ommelift	www.ommelift.com
Palazzani Industrie	www.palazzani.it
Palfinger Platforms	www.palfinger-platforms.com
PB Liftechnik	www.pbgmbh.de
Platform Basket	www.platformbasket.com
Power Towers	www.powertowers.com
Ranger tracked access	www.tracked-access.co.uk
Runshare	www.runshare.net
Ruthmann	www.ruthmann.de
Sinoboom Intelligent Equipment	www.sinoboom.com
Skyjack	www.skyjack.com
Snorkel	www.snorkelusa.com
Socage	www.socage.it
SUP	www.supelefant.com
TCA Lift	www.tcalift.com
Teupen	www.teupen.com
Turner Access	www.turner-access.co.uk
UTS Sales & Repairs	www.towersandpodiums.co.uk
Versalift UK	www.versalift.co.uk

## Scaffold Towers

CLM Construction Supplies	www.clm-supplies.com
Eurotowers	www.eurotowers.co.uk
Instant	www.instantupright.com
Lyte Industries	www.lyteladders.co.uk
Svelt	www.svelt.it
Turner Access	www.turner-access.co.uk
Youngman	www.youngman.com

## Mastclimbers & Hoists

Adastra Access	www.adastra-access.co.uk
Alimak	www.alimak.com
Brogan Group	www.brogangroup.com
CLM Construction Supplies	www.clm-supplies.com
GEDA	www.geda.de
Klaas	www.utility-equipment.com
SAE Climber	www.saeclimber.com
SGB	www.sgb.co.uk
LTC Hoists Division	www.lchoists.co.uk
Safi	www.safi.it

## Specialist Scaffolding

Advance Scaffolding (SW)	www.advancedscuffoldingltd.co.uk
SGB	www.sgb.co.uk

## Platform Rental

1st Access Rentals	www.1staccessrentals.co.uk
Z Cousins Access Limited	www.2cousins.co.uk
AA Access (Specialists)	www.aaaccess.co.uk
ABBA Plant Hire	www.abbaplanthire.co.uk
Access Link	www.accesslink.biz

Access Platforms Direct	www.accessplatformsdirect.co.uk
Acrolift	www.acrolift.co.uk
Actual Access	www.actualservices.co.uk
Advanced Access Platforms	www.accessplatformsuk.com
Aerial and Handling Services	www.aerialandhandlingservices.com
Aerial Platforms	www.aerialplatformsltd.co.uk
AF- Uplift	www.af-uplift.co.uk
Aspire Platforms	www.aspireplatforms.co.uk
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ATP	www.atphire.com
Bluelift	www.bluelift.ie
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LTC	www.ltcaccess.co.uk
Mainline Access	www.mainline-access.co.uk
Manlift Group - Mid East	www.manliftgroup.com
Manlift Hire	www.manlift.ie
Mayes Access Platform Services	www.mapsplatforms.co.uk
Mr Plant Hire	www.mrplanthire.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/Hire
North American Rentals	www.bigbooms.com
Peter Douglass Platforms	www.peterdouglass.co.uk
Platform Sales & Hire	www.platformsales.co.uk
Power Platform Services	www.pps.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Readyplant Ltd	www.readyplant.co.uk
Rival	www.rival.com
Sandhurst Access Rental	www.sandhurst-accessrental.co.uk
Trac-Access	www.trac-access.com
United Powered Access	www.upa-uk.com
Warren Access	www.warrenaccess.co.uk
Wilson Access	www.wilsonaccess.co.uk

## Notified Body

Powered Access Certification	www.pac.co.uk
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## New & Used Platforms

Access Platform Sales (APS)	www.accessplatforms.co.uk
Advanced Access Platforms	www.aaplatforms.co.uk
AFI Resale	www.afi-resale.co.uk
A.J. Access Platforms	www.accessplatforms.com
Baulift	www.baulift.de
Davis Access	www.davisaccess.co.uk
Facelift	www.facelift.co.uk
Flesch	www.Flesch-Arbeitsbuehnen.de
Gantic Norway	www.gantic.no
Genie	www.genielift.com
GSR Aerial Platforms UK	http://en.gsrspa.it
GT Access	www.gtaccess.co.uk
Haulotte	www.haulotte.com
Height for Hire	www.heightforhire.com
Hird	www.hird.co.uk
International Platforms	www.internationalplatforms.co.uk
JLG	www.jlgeurope.com
JMS Powered Access	www.jms.co.uk
Kemp Hoogwerkers	www.kemphoogwerkers.nl
Kunze GmbH	www.kunze-buehnen.com
Lavendon Sales	www.lavendonsales.com
Leader	www.leader-platt.it
Liftright Access	www.liftrightaccess.com
Manlift Sales	www.manlift.ie
Mech-Serv (GB)	www.mech-serv.co.uk
Mr Plant Hire	www.mrplanthire.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/sales/
North American Rentals	www.bigbooms.com
Rothlehner	www.rothlehner.com
Tracked Access	www.trackedaccess.com
Platform Sales	www.platformsales.co.uk
Promax Access	www.promaxaccess.com
Rapid Platforms	www.rapidplatforms.co.uk
Reachmaster (USA)	www.reachmaster.com
Rival	www.rival.com/used
Turner Access	www.turner-access.co.uk
TVH - Group	www.tvh.com
Universal Platforms	www.universalplatforms.com
Utility Equipment	www.utility-equipment.com
Vertimac	www.vertimac.com
Wilson Access	www.wilsonaccess.co.uk
Workplatform	www.workplatformltd.co.uk

## Special/Bespoke Access & Lifting Solutions

Access Platform Sales (APS)	www.iapsgroup.com
GT Lifting Solutions	www.gtliftingltd.co.uk
Ladder Safety Devices	www.laddersafetydevices.co.uk
JMS Powered Access	www.jms.co.uk
Liftright Access	www.liftrightaccess.com
Mantis Access	www.mantisaccess.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/Hire
Platform Sales & Hire	www.platformsales.co.uk
Ranger Equipment	www.spiderlift.co.uk
Warren Access	www.warrenaccess.co.uk/hire
Working At Height Ltd	www.workingatheightltd.com
Workplatform	www.workplatformltd.co.uk

## Special & Niche Access

Acrolift	www.acrolift.co.uk
DENKA Narrow	www.rothlehner.com
Easy Reach Scotland	www.easyreachscotland.co.uk
Facelift	www.facelift.co.uk
Height for Hire	www.heightforhire.com
High Access Hire	www.highaccesshire.co.uk
Higher Access	www.higheraccess.co.uk
JMS Powered Access	www.jms.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Smart Platform Rentals	www.smartplatforms.co.uk
Special Equipment	www.special-equipment.eu
Universal Platforms	www.universalplatforms.com
Utility Equipment	www.utility-equipment.com
Wilson Access	www.wilsonaccess.co.uk

## Special Lift & Transport Equipment

Arnold Schwerlast GmbH & Co.KG	www.arnold-schwerlast.de
Collett A Sons, UK	www.collett.co.uk
Wagenborg Nedlift, NL	www.wagenborg.com

## Heavy Transport/Abnormal Loads

Collett A Sons, UK	www.collett.co.uk
S.A. Smith	www.sa-smith.co.uk

## Self-Propelled Modular Transporters

Collett & Sons, UK	www.collett.co.uk
Wagenborg Nedlift, NL	www.wagenborg.com

## Telescopic Handler Manufacturers

Dieci Telehandlers Ltd	www.dieci-telehandlers.co.uk
Genie	www.genielift.com
Haulotte	www.haulotte.com
JLG	www.jlgeurope.com
Manitou	www.manitou.com
Merlo	www.merlo.co.uk

## New & Used Telehandlers

Dieci Telehandlers	www.dieci.com
GT Lifting Solutions	www.gtliftingltd.co.uk
Industrial Access	www.industrialaccess.ro
Lisman	www.lisman.nl
Rival	www.rival.com/used
TVH Group	www.tvh.com
Vertimac	www.vertimac.com
VHS Vissers Hettruck Service	www.vhsbladel.nl

## Telehandler Rental

ABBA	www.abbaplanthire.co.uk
GT Lifting Solutions	www.gtliftingltd.co.uk
JMS Powered Access	www.jms.co.uk
Mr Plant Hire	www.mrplanthire.co.uk
Readyplant Ltd	www.readyplant.co.uk

## Site Safety Audits

Access Safety Management	www.accesssafety.co.uk
Alfa Access Services	www.alfa-access-services.com

## Industry Associations

ALLMI	www.allmi.com
CICA	www.cica.com.au/
CISRS	www.cisrs.org.uk
CPA	www.cpa.uk.net
EWPA	www.ewpa.com.au
IPAF	www.ipaf.org
NASC	www.nasc.org.uk
OSHA	www.osha.gov
PASMA	www.pasma.co.uk

## Crane Manufacturers

Böcker Maschinenwerke	www.boecker.de
Ernest Doe & Sons Ltd.	www.ernestdoelocadercranes.com
Galizia	www.galiziagr.com
Grove	www.grovetworldwide.com
HCME (Hitachi-Sumitomo)	www.nrcplant.co.uk
Hiab	www.hiab.com
Jekko Minicrane	www.jekko.it
JMG	www.jmgcranes.com
KATO	www.rivertekservices.com
Klaas	www.utility-equipment.com
Kobelco	www.kobelcocm-global.com
Liebherr	www.Liebherr.com
Linden Comansa	www.comansa.com
Maeda	www.maedaminicran.es.co.uk
Manitowoc	www.manitowoccranes.com

Mantis Cranes	<a href="http://www.mantiscranes.ie">www.mantiscranes.ie</a>
Ormig	<a href="http://www.ormig.co.uk">www.ormig.co.uk</a>
Potain	<a href="http://www.manitowoccranes.com">www.manitowoccranes.com</a>
Raimondi	<a href="http://www.raimondi.co">www.raimondi.co</a>
Sany	<a href="http://www.sany.com.cn">www.sany.com.cn</a>
Sennebogen	<a href="http://www.sennebogen.com">www.sennebogen.com</a>
Spierings	<a href="http://www.spieringskranen.nl">www.spieringskranen.nl</a>
Tadano	<a href="http://www.tadano.com">www.tadano.com</a>
Tadano Faun	<a href="http://www.tadano.com">www.tadano.com</a>
Tadano Demag	<a href="http://www.demagmobilecranes.com">www.demagmobilecranes.com</a>
Unic Cranes	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
Valla	<a href="http://www.valla-cranes.co.uk">www.valla-cranes.co.uk</a>
Wolffkran	<a href="http://www.wolffkran.de">www.wolffkran.de</a>
Zoomlion	<a href="http://www.zoomlioncranes.co.uk">www.zoomlioncranes.co.uk</a>

### Lorry/Truck Loader Cranes

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
Effer	<a href="http://www.effer.it">www.effer.it</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladecranes.com">www.ernestdoeladecranes.com</a>
Hiab	<a href="http://www.hiab.com">www.hiab.com</a>
Palfinger	<a href="http://www.palfinger.com">www.palfinger.com</a>
Penny Hydraulics	<a href="http://www.pennyhydraulics.com">www.pennyhydraulics.com</a>
PM Cranes	<a href="http://www.pm-group.eu">www.pm-group.eu</a>

### New & Used Cranes

AGD Equipment	<a href="http://www.agd-equipment.co.uk">www.agd-equipment.co.uk</a>
Cotac Oy	<a href="http://www.cotac.fi">www.cotac.fi</a>
Cranes4Cranes	<a href="http://www.cranes4Cranes.com">www.cranes4Cranes.com</a>
Cranes UK	<a href="http://www.cranesuk.net">www.cranesuk.net</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
Delden Cranes	<a href="http://www.deldencranes.co.uk">www.deldencranes.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladecranes.com">www.ernestdoeladecranes.com</a>
High Sparks TCS	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
Jones-Iron Fairy	<a href="http://www.jonesironfairy.co.uk">www.jonesironfairy.co.uk</a>
Kobelco	<a href="http://www.kobelco-cranes.com">www.kobelco-cranes.com</a>
Leader	<a href="http://www.leader-piatt.it">www.leader-piatt.it</a>
London Tower Cranes	<a href="http://www.londontowercranes.co.uk">www.londontowercranes.co.uk</a>
Maeda	<a href="http://www.maedaminicranes.co.uk">www.maedaminicranes.co.uk</a>
Mantis Cranes	<a href="http://www.mantiscranes.co.uk">www.mantiscranes.co.uk</a>
M. Stemick	<a href="http://www.stemick-krane.de">www.stemick-krane.de</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
P.V. Adrighem BV	<a href="http://www.adrighem.com">www.adrighem.com</a>
Rivertek Services	<a href="http://www.rivertekservices.com">www.rivertekservices.com</a>
Terex Demag	<a href="http://www.terex-cranes.com">www.terex-cranes.com</a>
Utility Equipment	<a href="http://www.utility-equipment.com">www.utility-equipment.com</a>

### Heavy Lifting Equipment

Lifting Gear UK	<a href="http://www.lifting-equipment.co.uk">www.lifting-equipment.co.uk</a>
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### Furniture Hoists

Böcker	<a href="http://www.boecker.de">www.boecker.de</a>
Utility Equipment	<a href="http://www.utility-equipment.com">www.utility-equipment.com</a>

### Crane Hire

ABBA	<a href="http://www.abbaplanthire.co.uk">www.abbaplanthire.co.uk</a>
Ainscough	<a href="http://www.ainscough.co.uk">www.ainscough.co.uk</a>
Berry Cranes	<a href="http://www.berrycranes.co.uk">www.berrycranes.co.uk</a>
Bob Francis Crane Hire	<a href="http://www.bobfranciscranehire.co.uk">www.bobfranciscranehire.co.uk</a>
Bryn Thomas Cranes	<a href="http://www.brynthomascranes.com">www.brynthomascranes.com</a>
Cadman Cranes	<a href="http://www.cadmancranes.com">www.cadmancranes.com</a>
Cork Crane Hire (Liverpool)	<a href="http://www.corkcranehire.com">www.corkcranehire.com</a>
Crane Hire Ltd	<a href="http://www.cranehireltd.com">www.cranehireltd.com</a>
City Lifting	<a href="http://www.citylifting.co.uk">www.citylifting.co.uk</a>
Delden Cranes	<a href="http://www.deldencranes.co.uk">www.deldencranes.co.uk</a>
Emerson	<a href="http://www.emersoncranes.co.uk">www.emersoncranes.co.uk</a>
Graham Jones Cranes	<a href="http://www.grahamjonescranes.co.uk">www.grahamjonescranes.co.uk</a>
High Sparks TCS	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
J&M Crane Hire	<a href="http://www.jandmcranehire.co.uk">www.jandmcranehire.co.uk</a>
John Sutch Cranes	<a href="http://www.johnsutchcranes.co.uk">www.johnsutchcranes.co.uk</a>
King Lifting	<a href="http://www.kinglifting.co.uk">www.kinglifting.co.uk</a>
Ladybird tower crane hire	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>
London Tower Cranes	<a href="http://www.londontowercranes.co.uk">www.londontowercranes.co.uk</a>
Mantis Cranes	<a href="http://www.mantiscranes.co.uk">www.mantiscranes.co.uk</a>
McNally crane hire	<a href="http://www.cranehire-ireland.com">www.cranehire-ireland.com</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
Port Services Heavy Crane division	<a href="http://www.portservices.co.uk">www.portservices.co.uk</a>
Sangwin	<a href="http://www.sangwin.co.uk">www.sangwin.co.uk</a>

### Mini Crane Hire

AMC	<a href="http://www.amchire.com">www.amchire.com</a>
Easy Reach Scotland	<a href="http://www.easyreachscotland.co.uk">www.easyreachscotland.co.uk</a>
Emerson	<a href="http://www.emersoncranes.co.uk">www.emersoncranes.co.uk</a>
GGR	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
Height for Hire	<a href="http://www.heightforhire.com">www.heightforhire.com</a>
Hire Maeda	<a href="http://www.maedaminicranes.co.uk">www.maedaminicranes.co.uk</a>
JT Mini Crane Hire	<a href="http://www.jtminicranes.co.uk">www.jtminicranes.co.uk</a>
Lift Limited	<a href="http://www.liftminicranehire.co.uk">www.liftminicranehire.co.uk</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>

### Self Erecting Tower Cranes

Bryn Thomas Cranes	<a href="http://www.brynthomascranes.com">www.brynthomascranes.com</a>
Cork Crane Hire	<a href="http://www.corkcranehire.com">www.corkcranehire.com</a>
City Lifting	<a href="http://www.citylifting.co.uk">www.citylifting.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
John Sutch Cranes	<a href="http://www.johnsutchcranes.co.uk">www.johnsutchcranes.co.uk</a>
King Lifting	<a href="http://www.kinglifting.co.uk">www.kinglifting.co.uk</a>
Ladybird tower	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>

### Tower Cranes

High Sparks TCS	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
London Tower Cranes	<a href="http://www.londontowercranes.co.uk">www.londontowercranes.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>

### Heavy Lift Management

DWLS	<a href="http://www.dwls.co.uk">www.dwls.co.uk</a>
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### Heavy Lift Planning & Risk Analysis

A1A Software	<a href="http://a1asoftware.com">a1asoftware.com</a>
DWLS	<a href="http://www.dwls.com">www.dwls.com</a>
HLC Consulting	<a href="http://www.hliconsulting.com">www.hliconsulting.com</a>

### Ancillary Equipment

TMC lifting supplies	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
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### Auction Houses

Ritchie Brothers	<a href="http://www.rbaction.com">www.rbaction.com</a>
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### Battery Suppliers & Manufacturers

Shield Batteries	<a href="http://www.shieldbatteries.co.uk">www.shieldbatteries.co.uk</a>
Trojan Battery	<a href="http://www.trojanbattery.com">www.trojanbattery.com</a>
Platinum International	<a href="http://www.platinuminternational.com">www.platinuminternational.com</a>

### Load Cells & Load Monitoring Systems

MSL Oilfield Services Ltd	<a href="http://www.msluk.net">www.msluk.net</a>
PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>

### Control Systems

MOBA Automation	<a href="http://www.moba.de">www.moba.de</a>
Intercontrol	<a href="http://www.intercontrol.de">www.intercontrol.de</a>

### Generator Sales & Rental

Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
JMS Powered Access	<a href="http://www.jms.co.uk">www.jms.co.uk</a>

### Insurance

Specialist Insurance	<a href="http://www.finchgroup.net">www.finchgroup.net</a>
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### Online Technical Help

Crane Tools	<a href="http://www.cranetools.com">www.cranetools.com</a>
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### Outrigger Pads, Mats & Roadways

Alimats	<a href="http://www.craneriggermats.co.uk">www.craneriggermats.co.uk</a>
GTP Europe	<a href="http://www.gtp-europe.com">www.gtp-europe.com</a>
Marwood	<a href="http://www.marwoodgroup.co.uk">www.marwoodgroup.co.uk</a>
Mat & Timber Services	<a href="http://www.sarumhardwood.co.uk">www.sarumhardwood.co.uk</a>
Nolim	<a href="http://www.nolim.co.uk">www.nolim.co.uk</a>
Outriggerpads	<a href="http://www.outriggerpads.co.uk">www.outriggerpads.co.uk</a>
Timbermat	<a href="http://www.timbermat.co.uk">www.timbermat.co.uk</a>
TMC lifting supplies	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
Universal Crane Mats	<a href="http://www.universal-crane-mats.com">www.universal-crane-mats.com</a>
Welex Group	<a href="http://www.welexgroup.com">www.welexgroup.com</a>

### Component Suppliers

Cone Drive	<a href="http://www.conedrive.com">www.conedrive.com</a>
PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>
UE Components	<a href="http://www.ue-components.com">www.ue-components.com</a>

### Parts & Service Suppliers

Aerial & Handling Services	<a href="http://www.aerialandhandlingservices.com">www.aerialandhandlingservices.com</a>
Alfa Access Services	<a href="http://www.alfa-access-services.com">www.alfa-access-services.com</a>
Amerparts	<a href="http://www.amerparts.net">www.amerparts.net</a>
AWD	<a href="http://www.awdgrp.com.au">www.awdgrp.com.au</a>
Caunton - Access	<a href="http://www.caunton-access.com">www.caunton-access.com</a>
Cone Drive	<a href="http://www.conedrive.com">www.conedrive.com</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
C-Tech Industries	<a href="http://www.ctech-ind.com">www.ctech-ind.com</a>
Davis Access Platforms	<a href="http://www.davisaccess.co.uk">www.davisaccess.co.uk</a>
Donghua Limited	<a href="http://www.donghua.co.uk">www.donghua.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladecranes.com">www.ernestdoeladecranes.com</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
IPS	<a href="http://www.ipspartsonline.com">www.ipspartsonline.com</a>
JLG	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
OTR Wheel Engineering Europe	<a href="http://www.otrwheel.co.uk">www.otrwheel.co.uk</a>
PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>
TVH - Group Thermote & Vanhalst	<a href="http://www.tvh.be">www.tvh.be</a>
UE Components	<a href="http://www.ue-components.com">www.ue-components.com</a>
Unified Parts	<a href="http://www.unifiedparts.com">www.unifiedparts.com</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>
Workplatform	<a href="http://www.workplatformltd.co.uk">www.workplatformltd.co.uk</a>

### Innovations

Aerial & Handling Services Ltd	<a href="http://www.aerialandhandlingservices.com">www.aerialandhandlingservices.com</a>
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### Recruitment

Vertikal.Net	<a href="http://www.vertikal.net/en/recruitment">www.vertikal.net/en/recruitment</a>
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### Replacement Filters

Plant Filters	<a href="http://www.plantfilters.co.uk">www.plantfilters.co.uk</a>
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### Safety Equipment

AGS	<a href="http://www.ags-btp.fr">www.ags-btp.fr</a>
Airtek equipment	<a href="http://www.airteksafety.com">www.airteksafety.com</a>
Heaton Trestle Handrail System	<a href="http://www.heatonproducts.co.uk">www.heatonproducts.co.uk</a>
Heaton Scaffold Towers	<a href="http://www.heatonproducts.co.uk">www.heatonproducts.co.uk</a>
Live Line Defender	<a href="http://www.liveline Defender.com">www.liveline Defender.com</a>
Load Systems UK Ltd	<a href="http://www.loadsystems.com">www.loadsystems.com</a>
Mantracourt Electronics	<a href="http://www.wirelessensorsystem.com">www.wirelessensorsystem.com</a>
Marwood	<a href="http://www.marwoodgroup.co.uk">www.marwoodgroup.co.uk</a>
SMIE	<a href="http://www.smie.com">www.smie.com</a>

### Rental Management Software

Higher Concept	<a href="http://www.higherconcept.co.uk">www.higherconcept.co.uk</a>
HireHop Equipment Rental Software	<a href="http://www.hirehop.co.uk">www.hirehop.co.uk</a>
HireHop Equipment Rental Software	<a href="http://www.hirehop.com">www.hirehop.com</a>
Infosystem	<a href="http://www.levaplus.ch">www.levaplus.ch</a>
inspHire	<a href="http://www.inspire.com">www.inspire.com</a>

Matusch GmbH	<a href="http://www.matusch.de">www.matusch.de</a>
MCS Rental Software	<a href="http://www.mcsrentalsoftware.com">www.mcsrentalsoftware.com</a>
vWork	<a href="http://www.vworkapp.com">www.vworkapp.com</a>

### Structural Repairs

Avezaat Cranes	<a href="http://www.avezaat.com">www.avezaat.com</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
John Taylor Crane Services	<a href="http://www.jtcranes.co.uk">www.jtcranes.co.uk</a>

### Training Associations & Networks

ALLMI	<a href="http://www.allmi.com">www.allmi.com</a>
AWPT	<a href="http://www.awpt.org">www.awpt.org</a>
IPAF	<a href="http://www.ipaf.org">www.ipaf.org</a>
NASC	<a href="http://www.nasc.org.uk">www.nasc.org.uk</a>
Pasma	<a href="http://www.pasma.co.uk">www.pasma.co.uk</a>

### Training Centres & Trainers

Access Platforms Direct	<a href="http://www.accessplatformsdirect.co.uk">www.accessplatformsdirect.co.uk</a>
Access Platform Sales (APS)	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
Astra Access	<a href="http://www.astratraining.co.uk">www.astratraining.co.uk</a>
Bos Training	<a href="http://www.bosstraining.co.uk">www.bosstraining.co.uk</a>
Active Safety	<a href="http://www.activerentals.co.uk">www.activerentals.co.uk</a>
Advanced Access Platforms	<a href="http://www.accessplatformsuk.com">www.accessplatformsuk.com</a>
Ainscough	<a href="http://www.ainscoughtraining.co.uk">www.ainscoughtraining.co.uk</a>
AJ Access	<a href="http://www.accessplatforms.com">www.accessplatforms.com</a>
Approved Safety Training -Ca	<a href="http://www.approvedsafetytraining.com">www.approvedsafetytraining.com</a>
CMT	<a href="http://www.c-m-t.co.uk">www.c-m-t.co.uk</a>
Elevation	<a href="http://www.elevation.net">www.elevation.net</a>
Emerson	<a href="http://www.emersoncranes.com/training">www.emersoncranes.com/training</a>
GT Access	<a href="http://www.gtaccess.co.uk">www.gtaccess.co.uk</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
IAPS	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
LTC Training Services	<a href="http://www.ltctrainingservices.co.uk">www.ltctrainingservices.co.uk</a>
Mentor Training Solutions	<a href="http://www.mentortrainingsolutions.co.uk">www.mentortrainingsolutions.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk/training">www.nationwideplatforms.co.uk/training</a>
SGB	<a href="http://www.sgb.co.uk">www.sgb.co.uk</a>
Smart Platform Rentals	<a href="http://www.smartplatforms.com">www.smartplatforms.com</a>
TVH Group	<a href="http://www.tvh.com">www.tvh.com</a>
UTN	<a href="http://www.utntraining.co.uk">www.utntraining.co.uk</a>
Versalift Training Direct	<a href="http://www.versalift.co.uk/training">www.versalift.co.uk/training</a>
Warren	<a href="http://www.warrenaccesstraining.co.uk/courses/">www.warrenaccesstraining.co.uk/courses/</a>
Access Training Workplatform	<a href="http://www.workplatformltd.co.uk/customer-support/operator-training">www.workplatformltd.co.uk/customer-support/operator-training</a>

### Safety Training

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
Avon Crane	<a href="http://www.avoncrane.co.uk">www.avoncrane.co.uk</a>
Brogan Group	<a href="http://www.brogangroup.com">www.brogangroup.com</a>
Davis Access	<a href="http://www.davisaccess.co.uk">www.davisaccess.co.uk</a>
Emerson	<a href="http://www.emersontrainingservices.co.uk">www.emersontrainingservices.co.uk</a>
Height for Hire	<a href="http://www.heightforhire.com">www.heightforhire.com</a>

### Training Services

Facelift	<a href="http://www.facelift.co.uk">www.facelift.co.uk</a>
HCS	<a href="http://www.hydrauliccraneservices.co.uk">www.hydrauliccraneservices.co.uk</a>
Hewden Training	<a href="http://www.hewden.co.uk/training">www.hewden.co.uk/training</a>
Hi-Reach	<a href="http://www.hi-reach.co.uk">www.hi-reach.co.uk</a>
Hiab	<a href="http://www.hiab.com">www.hiab.com</a>
Horizon Platforms	<a href="http://www.ipaftrainingcourses.co.uk">www.ipaftrainingcourses.co.uk</a>
JLG Training	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
L&B Transport	<a href="http://www.lbtransport.co.uk">www.lbtransport.co.uk</a>
Liebherr Training (UK)	<a href="http://www.liebherr.co.uk">www.liebherr.co.uk</a>
Lifting Equipment Training	<a href="http://www.liftltd.co.uk">www.liftltd.co.uk</a>
Loxam	<a href="http://www.loxam-access.co.uk">www.loxam-access.co.uk</a>
Lyte	<a href="http://www.lyteladders.co.uk">www.lyteladders.co.uk</a>
Mainline Access	<a href="http://www.mainline-access.co.uk">www.mainline-access.co.uk</a>
Mentor Training	<a href="http://www.mentortraining.co.uk">www.mentortraining.co.uk</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk">www.nationwideplatforms.co.uk</a>
Norfolk Training Services	<a href="http://www.norfolktraining.co.uk">www.norfolktraining.co.uk</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
Southern Crane & Access	<a href="http://www.southerncranes.co.uk">www.southerncranes.co.uk</a>
TH White	<a href="http://www.thwhite.co.uk">www.thwhite.co.uk</a>
Terex Atlas (UK) Ltd.	<a href="http://www.atlascranes.co.uk">www.atlascranes.co.uk</a>
TVH Group	<a href="http://www.tvh.com">www.tvh.com</a>

### Training Simulators

CM Labs	<a href="http://www.cm-labs.com">www.cm-labs.com</a>
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### Crane Attachments

Kinshofer	<a href="http://www.kinshofer.com">www.kinshofer.com</a>
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### Wire Rope & Cable

Rope and Sling	<a href="http://www.ropeandsling.co.uk">www.ropeandsling.co.uk</a>
Teufelberger Seil	<a href="http://www.teufelberger.com">www.teufelberger.com</a>
TMC Lifting	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
Casar	<a href="http://www.casar.de">www.casar.de</a>

### Winches & Hoists

Rotzler	<a href="http://www.rotzler.com">www.rotzler.com</a>
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### Tyre Suppliers

Mitas Tyres	<a href="http://www.mitas-tyres.com">www.mitas-tyres.com</a>
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### Traffic Management

Atlas Traffic Management	<a href="http://www.atlatstm.co.uk">www.atlatstm.co.uk</a>
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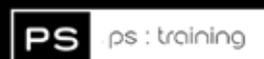
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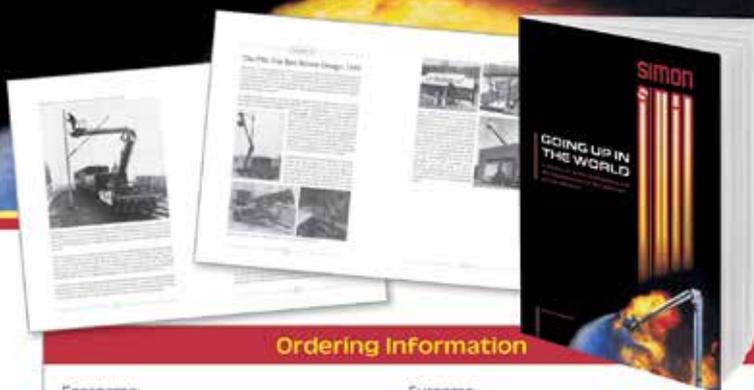
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## Ex-UK

Model	Year	Specification	Hours	Price (GBP)
<b>Genie double-deck scissors</b>				
Genie GS3384RT	2019	Full CE, 4x4, double-deck extension	310	33,000.00
Genie GS4390RT	2019	Full CE, 4x4, double-deck extension	245	35,000.00
Genie GS4390RT	2019	Full CE, 4x4, double-deck extension	238	35,000.00
Genie GS4390RT	2020	Full CE, 4x4, double-deck extension	199	38,000.00
<b>Genie - other</b>				
Genie Z45/25RT	2018	Full CE, 4x4, generator, anti-entrap	357	33,000.00
Genie Z45/25XC	2018	Full CE, 4x4, generator, anti-entrap	247	36,000.00
Genie Z60/37FE	2018	Full CE, 4x4, NMT, anti-entrap	155	45,000.00
Genie Z33/18	2018	Full CE, NMT	74	22,000.00
Genie 1932	2019	Full CE, deck extension, NMT	29	6,500.00

Model	Year	Specification	Hours	Price (GBP)
<b>Snorkel</b>				
S2755RT	2019	Full CE, 4x4, deck extension	59	24,000.00
S2755RT	2019	Full CE, 4x4, deck extension	78	24,000.00
S2755RT	2019	Full CE, 4x4, deck extension	124	24,000.00
S3010P (choice of 6)	2020	Full CE		3,200.00



Model	Specification	Hours	Price
<b>Skyjack</b>			
Skyjack SJ63AJ	Full CE 4x4 2017	840	POA
Skyjack SJ3219	Full CE 2019	35	POA

## USED EQUIPMENT - Ex-Jebel Ali UAE June 2021

Model	Year	Specification	Price
<b>Genie</b>			
Genie Z45/25RT	2001	Full CE 4x4	POA
Genie Z45/25RT	2003	Full CE 4x4	POA
Genie S85	2002	Full CE 4x4	POA
Genie S125	2001	Full CE 4x4	POA
<b>JLG</b>			
JLG 450AJ	2004	Full CE 4x4	POA
JLG 600AJ	2002	Full CE 4x4	POA



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