

cranes & access

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May 2018 Vol.20 issue 3

**Boom lifts
Tower
cranes**

**Vertikal Days
show guide
Intermat
review**

...Haulotte to drop diesels...Kato upgrades City range...Snorkel to launch Euro telehandlers...

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On the cover:

Among the many tower crane operator hoists on display at Intermat, German hoist manufacturer Geda and Belgium international tower crane rental group Arcomet announced a strategic partnership to develop attachments for Geda's tower crane hoists.



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We take a look at the latest developments in the move towards hybrid and electric powered boom lifts, assess the global impact of the new ANSI standards in the USA which bring them closer to European, ISO and Australian standards and review Niftylift's latest version of its ever popular HR 12.



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Tower crane development over the past few years has been rapid, with most manufacturers adding new models with increased performance to cope with the demands of current construction techniques. However, one type of tower crane - the hydraulic luffer - once considered a bit of an oddity, is now appearing in the product ranges of an increasing number of manufacturers. We take a look at the benefits of this type of tower crane and compare what is currently on the market.



Vertikal Days 2018
show guide 37

Vertikal Days will be held at Donington Park near East Midlands airport and promises to be the biggest and best access and lifting event in Europe this year. In this bumper issue we publish a full pull-out show guide listing all the exhibitors, new products and essential information to make the most of your visit to the show.



DONINGTON PARK

Intermat review 89

Despite transport problems in and around Paris, this year's Interimat was better than expected being reasonably well attended, with most exhibitors happy with the quality of visitors if not the quantity. We have a pictorial overview, with new products being featured in future issues of the magazine.

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When to show and tell?

Welcome to the largest ever issue of Cranes & Access - all 124 pages!

As well as the usual industry news and features, this bumper edition includes the Vertikal Days show guide. Over the past 12 years Vertikal Days has grown to become one of the largest crane, access and telehandler events in the world - with more lifting equipment than Intermat and a decent number of new product launches.

The benefits of launching new products at a show are obvious but it puts pressure on manufacturers to announce or launch machines to a timetable not related to either the development programme or product availability.

Every salesman loves a new model, particularly if it has the latest features and/or improved performance etc. An exhibition launch helps build excitement and encourage buying decisions. But how often have we seen machines displayed which then take forever to reach production, by which time the customer, and even the salesman may have lost interest. Worse still, the machine ships before it is ready to face the challenges of a real job site.

The crane industry is arguably the worst culprit, primarily because of the size and complexity of the product. Terex's '1,200 tonne class' AC1000-9 All Terrain crane is an oft cited example. Having been announced in 2006 with orders booked as early as 2008, it appeared on the Terex stand at Bauma in 2010 but the first unit was not delivered until the end of 2012, six years later!

Japanese manufacturers on the other hand are 'criticised' by dealers for the excessive time taken between prototype testing and availability to sell. Their culture demands that the final product be 100 percent right before the first orders are taken and is probably the reason why Japanese products tend to be so reliable from the off. Tadano's new 60 tonne ATF60G-3 was announced at Bauma 2016, but it was not until Intermat last month that the company finally agreed to open its order books for the new crane. Such delays are frustrating for sales people itching to start selling and to customers wanting it in their fleet. And don't even mention Tadano's triple boom 600 tonne ATF600G-8!

Delays can also affect the perceived image of the product as people imagine problems that might have caused the delay. Everyone likes a new product but the time between unveiling it and delivery are critical. The media must accept some blame in this process, we love to publicise new models as early as possible, with 'scoops' and sneak previews stirring up demand, even though the product may be years away.

Perhaps manufacturers should not divulge any information until a product is truly ready? Terex has learnt the lesson of premature launches, and now says that products will only be promoted when they are ready for market. A wise move, but difficult when a competitor announces a similar product way in advance of it being available creating interest and perhaps orders. Manufacturers might do better to be more open about development progress and timescales? Shows such as Vertikal Days are ideal venues to see products in the metal - prototypes and the finished articles - and discuss future developments.

However even if a product is ready for production, the next problem is long lead times as initial orders flood in.... but that is another issue.

Mark Darwin

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

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The new 50 tonne Linden Comansa 21LC750 tower crane

Largest flat top in the UK

The first 50 tonne Linden Comansa 21LC750 has been delivered to London-based tower crane sales and rental company City Lifting, making it the largest flat top tower crane in the UK. The 21LC750 usually has a maximum capacity of 48 tonnes but has been modified to achieve the higher capacity by using a new lighter trolley and hook set, along with compact wire rope.

The crane has been installed on the site of a new 14 storey hotel next to Terminal 2 at Heathrow Airport, London. It has a freestanding height of 51.3 metres with a jib length of 55 metres and can handle 16.2 tonnes at the jib tip or 17.28 tonnes when using the standard PowerLift system. The crane will be used to lift prefabricated modules weighing 13,200kg.

City Lifting owner Trevor Jepson said: "We are convinced that when the crane finishes this project we will receive plenty of rental enquiries, because the trend in construction is to use heavier prefabricated units and cranes like the 21LC750 will be increasingly required by contractors to work in a quick and efficient way."

CPA publishes plating and testing details

The UK exemption for the plating and inspection of larger truck mounted lifts and cranes on commercial chassis is ending. In order to help crane and access companies, the CPA has published a Technical Information Note highlighting the government's transition plans for the change in the rules which mean cranes or large platforms mounted on standard HGV type chassis must now have a valid Goods Vehicle Test Certificate and plate, or proof of a valid safety inspection at the time of the first Vehicle Excise Duty (VED) renewal date after May 19th 2018.

Until the renewal date arrives, vehicles without the test certificate must carry proof of a safety inspection - as opposed to general maintenance inspection - which has been carried out by a competent/qualified person. All Terrain, Rough Terrain or other cranes and platforms on custom chassis are exempt. The CPA Technical Information Note can be downloaded from www.cpa.uk.net/crane-interest-group-publications-guidance

Kiloutou acquires Butsch & Meier

French international rental group Kiloutou has acquired German powered access and telehandler rental company Butsch & Meier. Butsch & Meier operates from 13 locations in South Western Germany, mostly in Baden-Württemberg, including Freiburg, Baden-Baden and Karlsruhe. The company runs a fleet of 470 aerial work platforms and telehandlers and is a member of the Systemlift network of independent rental companies. The move follows last year's acquisition of Hamburg-based Starlift.

Kato updates City cranes

Kato will launch new versions of its 13 and 20 tonne City Cranes later this month. The new models - the CR-130Rf and CR-200Rf - retain most of the structural aspects from the CR-130R and CR-200R including the 24 metre, six section boom and 5.5 telescopic offsetable jib on the CR-13, and 28 metre boom, 5.8 metre jib on the CR-20 but include a host of new features such as:

- New cleaner Stage IV diesels - Hino on the CR-13, Cummins on the CR-20.
- A higher 62 kph/38.5 mph maximum road speed.
- A completely redesigned operators cab with greater glazed area, improved information displays and a slew of operator comfort features.
- Automatic outrigger levelling with five extension widths, a standard Parking Distance Assist system with sensors front and rear, rear view cameras and standard two position 3,000kg searcher hooks.

Hiroshi Ide of Kato said: "Introducing new models to the European market and growing our product range together with our customer base in Europe is a key focus for us. The Rf Series are impressive machines and we look forward to delivering the first units over the Summer."

Colin Cleary managing director of Kato dealer Rivertek Services added:

"We intend to display the new models for the first time in Europe at Vertikal Days. Many of the enhancements and new features are a direct result of feedback between Kato engineers and UK crane users."



New Kato cranes



The three tonne searcher hook on the Kato CR-130Rf

50m Teupens for Total Solutions

UK rental company Total Solutions High Access has ordered two 50 metre Teupen spider lifts, a Leo 50GT and a Leo 50GTX. The Leo 50GT has a platform capacity of 200kg with an outreach of 17.1 metres or 20 metres with 80kg.

The 50GTX has a platform capacity of 400kg which it can take to 13 metres, or 15.2 metres with 200kg. One of the lifts sold by Teupen dealer Alfa Access Services will be displayed at Vertikal Days.



Teupen Leo 50GT

Geda and Arcomet to develop tower crane hoists

German Hoist manufacturer Geda and Belgian international tower crane rental group Arcomet have formed a strategic partnership to develop accessories for Geda's tower crane operator hoist.

As part of the agreement Arcomet has ordered 200 Geda 2PK hoists, with the aim to increase this to 500 over time. The two companies have already developed a number of items, including folding attachment brackets that allow a 45 metre tower crane hoist/elevator to be installed in less than a day. Some of the brackets will initially be exclusive to Arcomet and sister company Matebat. The two companies also plan to co-operate on the development of a new internal tower crane hoist.



A Geda hoist/elevator developed with Arcomet.

Matebat acquires Reflex Group

The planned merger between sister companies Arcomet and Matebat has been delayed by a couple of months for regulatory reasons, but in the meantime Matebat has acquired tower crane and hoist service and maintenance company Reflex group from founder Christophe Sellier. The company represents Geda in France and is a parts, service and support agent for Liebherr.

Arcomet also formed a strategic alliance with electronics company Ascorel to establish a 'Laboratory of Ideas' with a small team of students working in a development hub, to originate and test new products and services for tower cranes.



Philippe Cohet of Arcomet/Matebat



Christophe Sellier of Reflex

Dropped load proves fatal

At the end of March, a woman was fatally injured when a pallet of bricks dropped from a tower crane working in the City of London. The incident occurred at Bow Corner, a six storey apartment block being built by Higgins Homes in the east end of London.

The falling bricks landed on Michaela Boor, 29, who was walking past the site, having taken her child to school. The brick pallet was netted but something appears to have given way. Higgins Homes said it was working with the Health & Safety Executive to determine the cause of the incident.



The pallet was netted, but something gave way.

Wolffkran moves into France

Wolffkran has opened a sales, rental and service depot in Paris, France headed by Ludovic Delcourt. The new subsidiary joins Wolff operations in Germany, Austria, Switzerland, Belgium and the UK.

Delcourt said: "Our goal is to cover all types of construction projects in France and drive the development of the Wolff rental fleet. Wolffkran's rental fleet of 700 cranes worldwide makes it possible to serve the French market with luffing jib cranes whose availability is otherwise rather low in France. For the time being, the focus of our activities is on the Paris region, but in the medium term we plan to expand our commitment to the whole of France."



Ludovic Delcourt

Boels confirms three more acquisitions

Dutch international rental company Boels has confirmed the acquisition of three new companies, Already Hire in the UK and Delta Rent and Amdyte in the Netherlands.

Already Hire is based in Slough with three branches in London - Heathrow, Tower Bridge and Dartford. It offers a wide range of products including light weight aerial lifts and low level access. The move follows the acquisition of Supply UK Hire Shops last April and takes Boels' UK network to 29 locations.

Delta Rent is based in the south west of the Netherlands, where it is active in industrial rental and more specifically the petrochemical market. Woudenberg-based specialist rental company Amdyte, claims to be market leader in temporary fencing rental.



Pierre Boels

TCA Lift changes name to Falcon Lifts

Danish spider lift manufacturer TCA Lift has changed its corporate name to Falcon Lifts, matching its well-known Falcon brand. Bringing the company and brand name together is intended to help the company present a stronger, more coherent and logical image as it expands under new ownership.

A new Falcon logo and corporate identity is part of the change. Danish private equity firm Generationsskifte Invest acquired a 65 percent stake in the business last July. Managing director Finn Schlitterlau and finance director Thyge Mikkelsen hold the other 35 percent of the share capital.

The company has seen numerous name and ownership changes over the past 13 years - including WorldLift, Skako and TCA - but the Falcon product name has remained a constant throughout.



The Falcon logo has also been updated.



A mixed bag at Intermat show

Last month's Intermat show in Paris proved a mixed bag with train strikes, a variety of weather conditions and a lack of several major exhibitors. While cranes were disappointing, aerial lifts were certainly better represented, but the stars of the show were telehandlers. While JCB's absence was noted, most manufacturers were out in force with new product launches. Merlo alone launched 10 new telehandlers, with Magni, Manitou, Dieci and Farasin all showing new models. A pictorial review of the show can be found on page 89. In the meantime here is some news from the show.

Haulotte unveiled the HA20 LE, the first in a new range of electric/hybrid Pulseo Generation lifts and part of a major corporate strategy dubbed 'Blue Orientation' to drop diesel powered models within 10 years. The strategy is more than product related though, the company is seriously looking to eliminate paper from its operations and switch from an engineering driven company to a service related business. This will include the addition of new company stores in markets where it is not currently represented. More details on the HA20LE can be found in the boom lift feature.



Haulotte unveiled its HA20 LE and announced its Blue Orientation strategy

GGR/Unic Cranes Europe launched a tracked version of its 2.9 tonne battery powered Eco 295 model wheeled spider crane. Powered by large a 48 Volt battery pack, its standard five section boom offers a maximum tip height of around 9.5 metres.

The tracked version of the Unic Eco 295.



Locatelli replaced its 45 tonne RT model with the new 52.47 booking several sales at the show - Netherlands based van Adrighem ordered four units with an option for four more, and two units were sold to Canada, including one to Saint-Pierre et Miquelon, the French territory off the coast of Canada.



Locatelli 52.47

French vehicle mounted lift manufacturer **Klubb** launched what is claimed to be the world's smallest van mounted platform. The 9.8 metre K20, developed in partnership with Renault and mounted on a Kangoo van. Outreach is 4.8 metres and a platform capacity 120kg, designed for telecom, CCTV installation and street lighting/signage.



The Klubb K20

On the Monday morning of Intermat **Tadano** opened the order book for its new 60 tonne, single engine ATF 60G-3, with first shipments due this summer. The launch was delayed by key component supply issues, which have now been overcome. The new three axle crane can run with 10, 12, 13 or 16.5 tonne axle loadings, and boasts a 48 metre main boom and a 58 metre maximum on board tip height. The new team at Tadano France claim to have taken a 15 percent market share in the 18 months since the subsidiary was established.



Tadano ATF 60G-3

Kranlyft announced the promotion of Jurgen Vater to chief executive, replacing Christer Dijnér who will continue as senior advisor, and take care of the European market for Maeda cranes. Vater joined the company in January from one of Sweden's largest Scania dealers, Atteviks Lastvagnar.



Christer Dijnér (L) and Jurgen Vater

Time International unveiled its new VTL - Versalift Telescopic Light - series of vehicle mounted platforms, merging the ultra high-strength, profiled steel boom design of the Versalift VT series with the low weight of the ETL series resulting in a lightweight telescopic platform for 3.5 tonne vans, chassis and pickups.



Versalift VTL

UK-based company **Radius NFT** - a joint venture between Radius Crane Management of Northampton and Abu Dhabi-based Potain dealer and international tower crane rental company NFT Tower Cranes - signed a rental partnership/'dealership' with Manitowoc to rent Potain tower cranes in the UK. Radius NFT currently has around 70 cranes working in the UK.



The Radius NFT deal confirmed at Intermat

Sennebogen Multi Line telehandler

Sennebogen is set to launch a new heavy-duty telehandler - the 355 E - the first of a new range of Multi Line products.

With a lift height of 8.5 metres, a 5.5 tonne lift capacity and standard elevating Multicab which can be raised to an eye level height of 4.2 metres, the 11.5 tonne 355 E is aimed at recycling and raw material handling. Larger and smaller models will be added to the range in the future. Machines will go into production at the end of May with first deliveries scheduled for September/October.



With a lift height of 8.5 metres and a 5.5 tonne lift capacity, Sennebogen's new 355 E is aimed at recycling

48 Potains for Maxim

US-based rental company Maxim Crane Works has ordered 48 Potain top slewing tower cranes - including flat tops and luffers - with deliveries scheduled to arrive in Newport, Kentucky later this month.

Maxim chief operating officer Frank Bardonaro said: "At Maxim, we are committed to continuous improvement with an ever-expanding fleet. Potain's dedication to manufacturing some of the most reliable tower cranes in the industry falls in line with our dedication to offering the highest-quality products and service to our customers."



Maxim has ordered 48 Potain tower cranes

Intelligent manufacturing line for XCMG

Chinese crane and equipment manufacturer XCMG has completed the installation and testing of what it claims is the world's first intelligent manufacturing production line for large crane superstructure/turntable frames and other large fabrications.

It says the new line has a capacity to manufacture up to 40 superstructure frames a day and can produce more than 20 different types. The automated line is 100 metres long with an intelligent rail guided vehicle carrying the superstructure on a special pallet. It can dock with the welding or machining stations along the way and be locked accurately in place to complete the 18 steps to create the frame. Each technician on the line can manage 10 workstations.



XCMG claims to have opened the world's first 'Intelligent Manufacturing' line for crane fabrications



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New HMF grab crane

Danish loader crane manufacturer HMF has unveiled a new crane designed for grab work specifically for handling construction and road waste such as concrete and asphalt. Designed and tested in the UK market, the HMF1310R has a maximum radius of more than eight metres and a slewing range of 440 degrees. The crane is available with manual or remote control and has two operating platforms with easy access between them via a catwalk.

The crane features HMF's RCL5300 which monitors all movements ensuring the chassis remains stable and with all four legs on the ground and the crane only works within the permitted load. It also is fitted with HMF's HSL-Q safety system which creates a virtual cage around the operator that the crane cannot enter. All systems are fully enclosed in waterproof boxes to ensure all-weather performance.

34 Terex RTs for Italy

Italian crane rental and sales company Tecno-Gru has ordered 34 new Terex Rough Terrain cranes. The order includes three 35 tonne RT35-1s, three 45 tonne RT 45s, 10 of the 45 tonne RT 45Ls, seven 65 tonne Quadstar 1065s, seven 75 tonnes Quadstar 1075s and three Quadstar 1075Ls and one 90 tonne RT 90.

Established in 1995, Terex dealer Tecno-Gru is headquartered in Castiglione delle Stiviere, northern Italy. The company also buys, refurbishes and sells used All Terrain cranes from Liebherr, Grove and Locatelli among others.



The 65 tonne Terex Quadstar 1065

TH White acquires Outreach Truck

TH White, the Palfinger crane distributor for England and Wales has acquired Outreach Truck, the Palfinger dealer in Scotland. The two businesses - TH White Lorry Loaders and Outreach Truck - will merge into Palfinger UK.

The new business will operate from three locations in the UK - Devises in Wiltshire, Bradford in Yorkshire and Falkirk, Scotland - it also has an agent/partnership with Transloader Services in Luton, Bedfordshire. It will be one of the largest Palfinger distributors in Europe and the only independent with full national coverage of a major market. The merged business remains part of the TH White group.



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AMCS for Hinckley Point cranes

French electronic systems manufacturer AMCS technologies has won the contract to provide the tower crane anti-collision and crane management systems on the Hinckley Point C nuclear power plant in Somerset.

The contract, with construction companies Bouygues Travaux Publics and Laing O'Rourke, includes installation of the latest AMCS DCS 61-S anti-collision and zoning systems on about 50 cranes as well as additional safety devices, such as cameras and night lights etc. The DCS 61-S calculates the distances between the cranes and their loads in three dimensions and merges this data with the actual real time movement speeds to maintain safe distances between each crane, automatically bringing them to a stop if they stray into pre-determined proximities or no-go zones.



New Microcranes M1

Canadian manufacturer Microcranes has launched the compact M1 Global lightweight modular mini crane which features a 905kg maximum capacity with a tip height of 6.7 metres.

The crane has an overall width of 762mm and weighs 816kg with 136kg of removable counterweight. The crane is equipped with castors on both the base frame and outriggers allowing loads to be moved into position.

Chief executive Josh Clark said: "We work with many industries to provide equipment for tight spaces and alternatives to renting or buying expensive large cranes."



Microcranes M1 Global

Magni to use Liebherr slew drives

Liebherr is to supply Magni with its DAT 200 drive slew motors for Magni's 360 degree telehandlers. The DAT 200 is a three-stage coaxial planetary unit with high pressure piston motor drive and integral spring operated hydraulically released wet brake, which can be adjusted to eliminate backlash. The drives will be installed in new Magni telehandlers from 26 to 39 metres and the 46 metre RTH 6.46 model later in the year.



Magni will install Liebherr DAT 200 slew drives in its 360 degree telehandlers



Liebherr DAT 200



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Tadano has reported a 3.5 percent fall in full year revenues to ¥173,703 million (\$1.58 billion). Pre-tax profit was ¥14,676 million (\$133.8 million) down 19 percent on the year. Most of the decline in sales came from an 18.6 percent drop in European mobile crane sales, with total mobile crane sales 9.7 percent lower at ¥99,022 million (\$903 million). North American sales increased 15.7 percent to ¥29,428 million (\$268.4 million). Loader crane sales were marginally higher at ¥19,677 million (\$179.5 million), while aerial lift sales improved 6.4 percent to ¥24,678 million (\$225 million). Other revenues were 11.4 percent higher at ¥30,324 million (\$276.6 million). The company is forecasting a 10.5 percent increase in 2018, to ¥192,000 million (\$1.75 billion), with pre-tax profits 10.7 percent higher at ¥16,500 million (\$150.5 million).



UK-based **HSS** - which owns UK Platforms - has reported full year revenues two percent lower at £335.8 million reflecting a 5.7 percent drop in rental revenues and a 10.6 percent gain in the Services operation which includes training and its One Call re-rent operation. UK Platforms and other specialist divisions reported revenue and profit growth. In spite of substantial cost savings, the pre-tax loss jumped from £17.4 million to £85.2 million partly due to £66.6 million of write offs.



United Rentals posted first quarter revenues 27.5 percent higher at \$1.73 billion, thanks largely to the acquisitions of NES in April and Neff towards the year end. Pre-tax profits jumped 44 percent to \$232 million. The company added \$280 million of new equipment, with the average age of the fleet at the end of March of 47.5 months or 53.4 months for the aerial work platforms. Rental rates improved by an average of 1.8 percent, rising to 2.2 percent in March.



Palfinger has reported revenues of €394.2 million - up nine percent on last year - due to higher loader crane sales in Europe and North America. The group's Land division which includes loader cranes and aerial work platforms, improved 13.6 percent to €337.8 million. The Sea division that serves the marine and offshore oil & gas industries saw revenues shrink 12.7 percent to €56.4 million. Pre-tax profit for the period was two percent higher at €29.8 million.



JLG has reported a 29 percent jump in first half revenues to \$1.56 billion. This was made up of a 34.5 percent surge in aerial work platform sales to \$810.7 million, while telehandler sales jumped 49.5 percent to \$364.4 million. Other revenues, including spare parts and used equipment were 7.5 percent higher at \$381 million. Operating profits for the first half increased almost 68 percent to \$111.5 million and the order book at the end of March was more than 2.5 times last year's level at \$1.79 billion.



Snorkel's full year revenues for 2017, increased 27 percent to \$165.8 million with an operating profit of \$1.64 million compared to a loss in 2016 of \$2.8 million.



Manitou has published first quarter sales revenues 21 percent higher at €461 million, while order intake surged taking the order book at the end of March to a record €870 million. Revenues for the Material Handling & Access division, largely telehandlers and aerial lifts were 24 percent higher at €322 million with improvements across all regions, causing the company to start ramping up production volumes.



Haulotte's first quarter revenues were nine percent higher at €139.7 million, driven by ongoing improvements in the European market as well as China and the Middle East. Sales of aerial lifts in North America, grew five percent, offset by shrinking scaffold sales.



Liebherr has reported full year results for 2017, with revenues 9.3 percent higher at a record €9.84 billion, while pre-tax profits jumped almost 22 percent to €576 million. Sales of construction and mining equipment - which includes mobile and tower cranes - increased 14.5 percent to €6,182 million. Mobile crane sales - wheeled and crawler - were roughly flat however at €2.06 billion. The company said its share of the All Terrain market declined to just over 52 percent.



US-based **H&E Equipment** achieved first quarter revenues of \$260.5 million, almost 15 percent higher than last year. Rental revenues increased more than 20 percent, while new equipment sales were 14 percent higher.



Terex Cranes has reported first quarter revenues of \$314 million, 19 percent up on the same period last year. The company reduced its operating loss from \$31.9 million last year to \$9.7 million this year. The order book at the end of March was \$643 million, 58 percent higher than at this time last year.



Genie posted first quarter revenues of \$638.9, up 35 percent, driven by strong growth in both North America and Western Europe. The order book at the end of March was \$891 million, 43 percent up on the same period past year. Meanwhile operating profits almost tripled to \$60.1 million.



Hiab has reported first quarter revenues of €276 million, two percent up on last year, with order intake seven percent higher at €307 million, leaving the order book at the end of March at €329 million. Operating profits slipped nine percent to €36.1 million,



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1,600t Demag for M-Kran

Russian rental company M-Kran has ordered a 1,600 tonne Demag CC 8800-1 lattice boom crawler crane with the Boom Booster kit for use on petrochemical projects and wind turbine installations.

The crane has the option of being converted into a 3,200 tonne CC8800 Twin at a future date.

Established in 2007, family run M-Kran is based in Moscow with a depot in Jekaterinburg. It employs 100 and runs a fleet of 40 All Terrain cranes.



The 1,600 tonne Demag CC 8800-1 crawler crane with Boom Booster kit

French dealer for Snorkel

Snorkel has appointed Acces Industrie Sales - part of the Tonneins-based group which includes rental company Acces Industrie - as its distributor for France. Acces Industrie runs a fleet of around 5,000 aerial lifts and telehandlers from 29 locations across France with 350 employees. The partnership was launched at Intermat.

Snorkel chief executive Matthew Elvin said: "We believe we have found a distribution partner who can truly support the needs of the French customer base, with a highly motivated, customer focused team who understand the market."

(L-R) Snorkel regional sales director Enrique Garcia Delgado, Acces Industrie finance manager Eric Lacombe, with Matthew Elvin of Snorkel and Pascal Meynard, of Acces Industrie



New Jekko SPK60.2

Jekko has started shipping its second generation six tonne SPK60.2 mini crawler crane with the first half dozen units going to customers in Hong Kong, Germany, Switzerland, Belgium, the UK and the United States.

The biggest change on the new model is a new software suite which automatically selects load charts for working on slopes of 0.7, 1.5 and three degrees as well as level ground. The crane has extendable tracks and can pick & carry up to three tonnes. The boom and jib options remain the same, with a 17.7 metre five section main boom plus four section 8.27 metre telescopic luffing jib for a maximum tip height of 27 metres. A new Yanmar diesel with an optional electric motor is also available for use when working in enclosed spaces or where noise or emissions are an issue. Overall weight is 13,760kg with 1,500kg as removable counterweight.



Jekko SPK60.2



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GTC-600	60 t	11.5 m – 36 m	2.5 m – 17.7 m	56 m	50 m	231 kW (310 HP)

- **Nationwide Platforms** in UK has appointed **Phil Wainwright** interim managing director.
- UK's **Coussens Crane Hire** has taken a 60t **Liebherr LTM 1060-3.1 All Terrain** crane.
- **B&A Cranes** of Wales has taken a 35t **Kato CR-350Ri All Terrain** crane.
- **Skyreach** of Australia has taken four **CTE** bi-energy spider lifts.
- **Kranlyft** has appointed **Jurgen Vater** as chief executive.
- Germany's **Meister** has taken a 60t **Liebherr LTM 1060-3.1 All Terrain**.
- UK-based **Platform Hire** has taken 10 **Airo XLP5E** with the variable cage.
- **Genie** has appointed **Scott McNeal** as VP information technology.
- Germany's **Einhäupl Autokran-Service** has taken a 250t **Demag AC 250-5 All Terrain** crane.
- **SMIE** has appointed **Jean-Charles Delplace** as managing director.
- **GLY Construction USA** has taken the first **Comansa LCL700** luffing jib tower crane in the Americas.
- UK lifting gear provider **FLG Services** has spent more than £400,000 on new equipment.
- UK's **Lee Lifting** has taken a 60t **Liebherr LTM 1060-3.1** and an **MK 140** tower crane.
- UK rental company **Plantforce** has taken a number of **JCB** telehandlers.
- Saudi Arabia's **Rezayat Sparrow** has taken two **Liebherr All Terrain** cranes with 16 more on order.
- UK crane veteran **Chris Walters** died suddenly on April 19th.
- **Trackunit** has acquired UK-based telematics supplier **Satrack**.
- UK-based **PSS Hire** has raised £5,000 for **Parkinsons UK**.
- **Jekko** has introduced a lithium battery pack for its smaller cranes.
- Terex distributor **Renegar-Driggers** has ordered six **Demag** cranes.
- **Ashtead** has announced a 50% expansion of **Sunbelt Rentals** by 2021.
- **Manitowoc** Philippines has appointed **Albert Hernandez** and **Carlo Tarifa** as **Potain** sales managers and **Michael Sanares** as **Grove** sales manager.
- Germany's **Andreas Wobbeler** has taken a 33m **Ruthmann T330** truck mounted platform.
- **Terex Utilities** is building a new manufacturing facility in Watertown, South Dakota.
- **WATM Crane Sales & Service** has been appointed **Grove** and **Manitowoc** dealer for South Australia.
- **CTE** has launched the 18 metre **B-Lift 18** truck mounted platform.



Phil Wainwright



Jurgen Vater



Scott McNeal



Jean-Charles Delplace



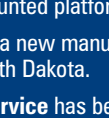
Chris Walters



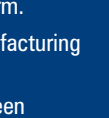
Carlo Tarifa



Michael Sanares



Soeren Brogaard Jensen



Mikkal Dalgas

- **Palfinger** has appointed **Andreas Klauser**, 53, as chief executive.
- Germany's **Helmberger** has taken a 24m **GSR B240PX** truck mounted platform.
- Germany's **Albert Regel** has taken a 500t **Liebherr LTM 1500-8.1 All Terrain** crane.
- UK's **Roadcraft Crane Hire** has taken a 13t **Kato CR-130Ri All Terrain** crane.
- Germany's **Kranverleih Saller** has taken a 70t **Tadano ATF 70G-4 All Terrain** crane.
- UK's **Emerson Crane Hire** has taken a **Spierings SK1265-AT6** self-erecting mobile tower crane.
- **Huisman** has appointed **Theo Bruijninx** as chief executive.
- **Dinolift** has appointed **RBG** as distributor for north eastern USA.
- France's **Somlec** has taken a 33m **Platform Basket Spyder 33.15** spider lift.
- Switzerland's **Matthey-Petit** has ordered a **Demag AC 45 City** crane.
- **Manitowoc** has appointed **Mark Hooper** as vice president North America distribution for **Grove**.
- Russia's **Topkran** has taken four **Potain Hup 40-30** self-erecting tower cranes.
- Germany's **Karl Scholl** has taken a 70t **Liebherr LTM 1070-4.2 All Terrain** crane.
- UK's **Welch Crane Hire** has taken a 20t **Kato CR-200Ri All Terrain** crane.
- Scotland's **Norpower Overhead Line Services** has taken a **Fassi F315A.2.22 6x6** loader crane.
- **Omme Lift** has appointed **Axel Thøgersen** as managing director, the first non **Lorentsen**.
- UK's **City Lifting** has taken a 220t **Demag AC 220-5 All Terrain** crane.
- Sweden's **Stockholms Höjdliftar** has taken a **GSR B200T** truck mounted lift.
- **Trojan Battery** has appointed **Girupis.LT** as its master distributor for Lithuania.
- **Crane Industry Services (CIS)** of USA has relocated to a larger facility.
- UK's **Lee Lifting** has taken a 20t **Kato CR-200Ri All Terrain** crane.
- **Manitex** has appointed **Jerry Monahan** as western regional business manager.
- Italy's **Farioli** has taken a 200t **Grove GMK5200-1 All Terrain** crane.
- **Isoli** has appointed **VMD** as distributor for Singapore, Myanmar, Thailand and Bangladesh.
- **US Blueline Rental** has taken a fleet of **Skyjack** lifts with **Elevate** telematics.
- Germany's **Gebrüder Markewitsch** has taken a 250t **Liebherr LTM 1250-5.1**.
- **Genie** has appointed **Skylift** as distributor for northern and eastern Austria.
- Middle East-based **Manlift** has presented a large number of long service awards.



Andreas Klauser



Theo Bruijninx



Mark Hooper



Axel Thøgersen



Jerry Monahan

- The UK's **NASC** has appointed **Simon Robinson** as marketing manager.
- **GSR** has launched its **B200PX** on a 3.5t **Iveco Daily Euro 6** chassis.
- Russia's **Zvezda Shipbuilding Complex** has taken several **HAB** scissor lifts.
- UK's **Media Access Solutions** has taken 25 **Genie** aerial lifts.
- The **International Marine Contractors Association** has published revised Guidelines for Lifting Operations.
- **Mammoet** has ordered two **Hoeflon C10** spider cranes.
- **US Sims Crane** has appointed **Bruce Holley** as branch manager Ocala, Florida.
- Belgian training centre **OCHA**, has taken a 42t **Liebherr LHM 120**.
- **Instant UpRight** has appointed **David McCormack** as district manager UK/Ireland.
- Kuwait's **Jassim Transport & Stevedoring** has ordered six **Demag All Terrain** cranes.
- UK's **Cambridge Crane Hire** has taken a 20t **Kato CR-200Ri All Terrain** crane.
- Austria's **Maltech** has taken 219 aerial lifts including its 2,000th machine.
- **Liebherr** is investing \$45 million in its Newport News facility in Virginia, USA.
- **Manitex** has appointed **Versalift East** as distributor.
- Germany's **Wilmes Mietservice & Falztechnik** has taken a 24.7m **Palfinger P250 BK**.
- UK's **Nationwide Platforms** has purchased two **Virtual Reality** simulators.
- **ALE** has ended its Canadian joint venture with **Roll-Lift** and established its own operation.
- Germanys **Wemo-Tec** has taken four **Ruthmann** truck mounted platforms.
- **Magni Deutschland** has appointed **Baumaschinen Franken** dealer for south central Germany.
- UK's **JMS Powered Access** has become an **IPAF** training centre.
- Germany's **Frankenlift** has taken a 2.4t **Jekko SPX 424** spider crane.
- **Cargotec** has appointed **Soili Mäkinen** to its executive board.
- Germany's **BKL Baukran Logistik** has taken a 450t **Liebherr LTM 1450-8.1 All Terrain**.
- UK's **SWAT Access** has taken number of **Almac** tracked scissor lifts.
- UK's **CPA** has appointed **Kevin Minton** as chief executive.
- **Trackunit** has appointed **Jeff Cohen** president North America, while **Soeren Brogaard Jensen** moves to chief commercial officer and **Mikkal Dalgas** chief technology officer.



Simon Robinson



Bruce Holley



David McCormack



Soili Mäkinen



Kevin Minton



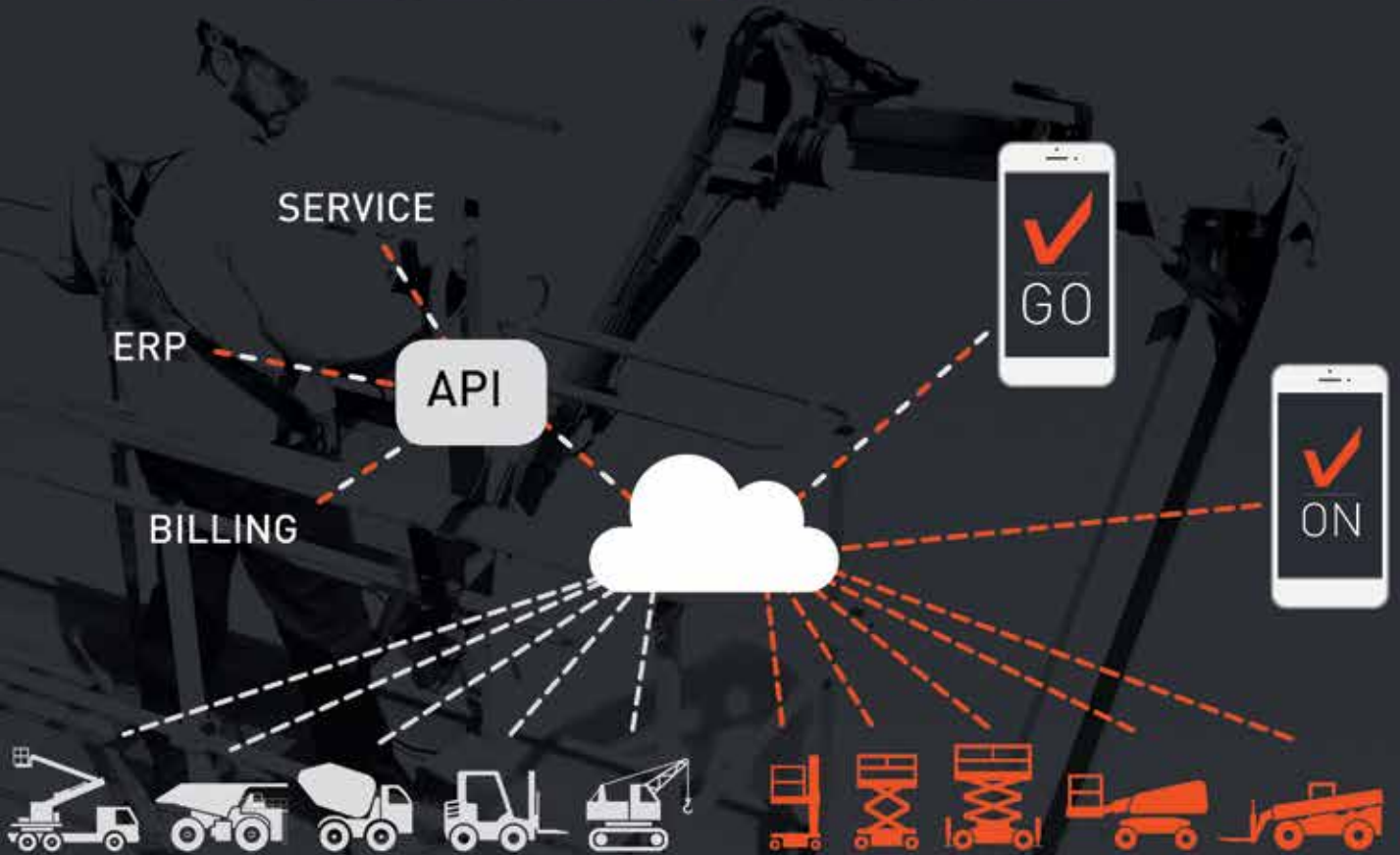
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Change is in the air

Over the next 20 years, as many as two billion more people will live in cities, resulting in a total of five billion urban dwellers worldwide. Major cities are already facing up to the challenges of air pollution and rising health issues resulting from airborne vehicle emissions. An increasing number of countries have announced future bans on internal combustion vehicles, while a growing number of cities are introducing ultra-low emission zones. This is already causing equipment buyers to consider switching to electric or hybrid powered machines, and why so many aerial lift manufacturers are starting to look at alternative power sources to diesel for their larger models.

Over the past few months several manufacturers have launched hybrid and lithium powered boom lifts as a result of the increased customer interest. The market for hybrids has been pioneered by UK manufacturer Niftylift which recently launched its third generation hybrid boom lifts and now offers two and four wheel drive models up to 86ft.

Niftylift has also launched its first telescopic/straight boom - the 65ft HR22 S - following customer demand for true hybrid versions of this type of boom lift. And it launched the HR21 E, a new all-battery electric version of the updated 62ft HR21 - its first with direct electric drive - which offers 13 metres of outreach, 250kg platform capacity, 150 degree articulating

jib, 30 percent gradeability and an overall weight of 6,640kg.

Demand for hybrid booms is particularly strong in Germany where Niftylift is now market leader in some sectors, initially due to the growing appetite of German rental companies - and more importantly their customers - for clean, quiet platforms, no matter what their size. Buyers have also now bought into some of the company's other features, such as low weight and built-in secondary guarding.

Niche no more

For many years the major manufacturers took no notice of the hybrid or all-electric concept for Rough Terrain lifts, given that it was very niche and certainly not something that the big American

producers saw in their home market which has traditionally tended to drive the development of new concepts or products.

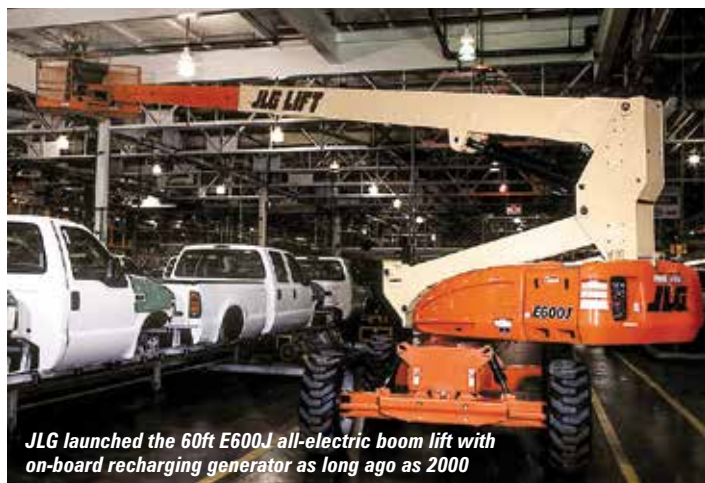
Even European-based manufacturers such as Haulotte and Manitou seemed unpersuaded that this type of product would ever be anything more than a small niche market. Although it must be said that JLG did some significant and critical development work in this area, launching



The Nifty HR21E's compact electric motor and pump replaces the usual hybrid power pack



Haulotte's new 60ft HA20 LE is the first unit in its Pulseo Generation and part of a radical new 'Blue' strategy



JLG launched the 60ft E600J all-electric boom lift with on-board recharging generator as long ago as 2000

the 60ft E600J all electric boom lift with on-board recharging generator as long ago as 2000. Its problem was that it was ahead of its time and therefore never sold particularly well. And in order to improve battery life it was built as light as possible and was quite different from the company's regular 60ft articulated Rough Terrain boom lifts.

The company also tested a fuel cell powered boom lift in 1999 which never made it into production. Other companies have also offered a variety of bi-energy models over the years, which were intended to offer hybrid like characteristics, but never offered sufficient battery

life to perform as a true electric powered platform. In the late 1990s UpRight, looking to produce a simple alternative to Genie and Niftylift's Bi-Energy boom lifts, added a small Kubota marine diesel with generator to its all electric AB46E, with enough generator power to top up the battery pack faster than the machine was capable of drawing down. As with the JLG E600J, it worked up to a point, but powering the traditional hydraulic wheel drive system with an electric motor was not the best combination.

In contrast Niftylift's Bi-Energy models had dual electric and diesel systems, so were true diesel



In the late 1990s UpRight added a small diesel engine with generator to its all-electric AB46E

powered units when ploughing through tough ground conditions, while the battery electric power train was slower and no match for the gradeability of the diesel power train. The lack of 'grunt' on the electric Niftylift booms, was the initial reason it created the Bi Energy option in the first place. So in a way it was this failing which led to Niftylift's development of the first hybrid boom lifts.

Genie also had a very credible Bi-Energy power pack option, a popular option on its market leading Z-45 boom lifts in Europe, but it sold few if any in North America. The main breakthrough in battery electric Rough Terrain lift development arguably came from JLG when it launched its 34ft 340AJ articulated boom in 2014 which featured four AC electric wheel motors, the first major aerial lift manufacturer to risk placing electric motors in an area where they are subject to abuse and contamination from mud and water.

The company had trialled direct electric drive in the late 1980s with DC wheel motors within the rear axle of its 30ft 300A. Genie took this a step further in 2007 when it added direct electric AC drive to the rear axle of the industrial Z-40/23N boom lift. But a four wheel drive, four wheel steer Rough Terrain direct electric drive boom lift had to wait for the right components to come along and then be proven able to handle the abuse of the rental market and tough construction sites.

Genie added to the development process with the launch of the 60ft Z-60/37 DC in early 2016, together with the FE 'hybrid' version with onboard diesel recharging generator. While sales of the Z60/37FE have been steady they have been a little slower than might have been expected, but the concept is certainly gathering momentum and owners are placing repeat orders.

Haulotte has now added to this trend with the launch of its new 60ft HA20 LE and LE Pro at Intermat.

This is the first unit in its Pulseo Generation and part of a radical new 'Blue' strategy which involves the company ceasing production of diesel boom lifts over the coming years as it converts its entire product line to emission free power sources.

Haulotte Pulseo range

Haulotte made a great deal of the launch of the first in a new range of Pulseo machines - part of an overall corporate strategy dubbed 'Blue Orientation'. The main element of which is to end all diesel powered production within 10 years and hopefully in half that time, but practicalities will have some impact on the actual timing. The company is starting with full traction lead acid battery packs, before switching to AGM and then lithium ion battery packs and finally - if all goes according to plan - fuel cells.

The new machine incorporates most of the structural elements from the current HA 20 RTJ but has reinforced riser weldments and boom to handle the optional dual platform capacities, with 250kg unrestricted for a working height of almost 21 metres and outreach of 11.9 metres. Or 10 metres outreach and 18 metres working height with the 350kg maximum capacity. Up and over reach is 8.5 metres.

Dual capacity is selected in the platform and monitored by the platform overload system. The counterweight is also slightly smaller, compensated by the two chassis-mounted full traction 72 volt/435Ah lead acid battery packs with centralised water top up system. The lift can be plugged into any 230 volt - ideally 16 amp - socket or recharged from the 18Kw Kubota diesel with generator - something the company refers to as a 'Range Extender'. All power from the generator goes into the batteries, but the company claims that even with totally flat battery packs the machine will operate within a minute or two of starting



The Haulotte HA20 LE can be plugged into any 230 volt - ideally 16 amp - socket or recharged from the 18kW 'range extender' Kubota diesel with generator

the engine. It also claims that the machine can work a full shift on a single battery charge. A chassis mounted battery charge indicator is said to be more accurate than those typically found on aerial lifts. A second indicator is provided on the platform controls.

Four wheel-mounted AC electric motors provide 45 percent gradeability while a separate electric motor powers the hydraulics. The riser descent has also been changed from power down to gravity descent. Four wheel steer and an oscillating axle are standard equipment on both the LE and LE Pro. Haulotte's latest technical features such as Activ'Lighting systems, Activ'Shield Bar 2.0, Activ'Screen and universal telematics plug are all standard equipment.

JLG hybrid boom

JLG is set to launch the production version of its new 80ft articulated 4x4 hybrid boom lift at Vertikal Days this month. The H800AJ goes head to head with the Nifty HR28 4x4 Hybrid which has been a runaway success in several European markets.

Compared to the Nifty HR28 the



The HA20 LE has dual platform capacities and a maximum outreach of 11.9 metres



JLG is set to launch the production version of its new 80ft H800AJ articulated 4x4 hybrid boom lift at Vertikal Days this month

How the JLG H800AJ compares with the Nifty HR28 4x4

	JLG H800AJ	Nifty HR28 4x4
Working height	26.38 metres	28 metres
Outreach	16.45 metres	19 metres
Platform capacity	230kg	280kg
Gradeability	45%	40%
Overall weight	16.11 tonnes	14.65 tonnes
Power source	Parallel hybrid - 84V DC with AGM batteries and Kubota Tier IV diesel engine	35kW Hybrid power using Kubota diesel engine
Machine length	11.13 metres	9.28 metres
Machine width	2.49 metres	2.49 metres
Machine height	3.0 metres	2.7 metres
Jib articulation	130 degrees	150 degrees
Drive	4 x 4	4 x 4



Genie added to the development process with the launch 60ft Z-60/37 FE 'hybrid' version with onboard diesel recharging generator

new JLG H800AJ is physically larger with 1.6 metres less working height and 2.55 metres less working outreach at 16.45 metres. Up and over height of the JLG is however better at 9.78 metres and gradeability is superior but platform capacity is 50kg less and at 16.1 tonnes it weighs almost 1.5 tonnes more. One of the reasons for this is that it is based on the regular diesel 800AJ, in fact after the electric motor it is basically identical, but the big battery pack replaces some of the counterweight. The unit combines an 84 volt electric system with AGM maintenance free batteries and Kubota Tier 4 final

diesel replacing the Deutz motor. Power on both machines - described as a parallel Hybrid system - is provided in a very similar way. Both use a small Kubota diesel coupled to a large electric motor which when reversed and driven by the engine becomes a generator that tops up the battery pack. In diesel mode the engine powers the pumps and the 'generator'. When extra power is required for steep inclines or heavy mud etc the electric motor kicks in and adds the additional required horsepower.

Both platforms can also run as a pure battery-electric machine with minimal noise and zero emissions.



JCB showed the prototype 50ft diesel AJ50 D at Conexpo and Vertikal Days 2017



Niftylift's HR28 4x4 Hybrid has been a big success in several European markets

As with the standard machine it is equipped from four wheel hydraulic drive, an oscillating axle with a four wheel steer option.

Lithium battery platforms

New energy and power developments are moving on apace. In recent months Niftylift has launched a lithium powered boom - the HR 12 LE L - while JCB has introduced lithium batteries on its scissor lifts. Both of these are the result of a request from Netherlands based start-up rental company Hoogwerkt which is planning an all lithium fleet which can be collected on a two axle equipment trailer. The Nifty HR12 LE L is also available as the HR12 LE (Light Electric) which Niftylift expects will make up the majority of machines sold as it uses

the much cheaper AGM batteries which it says can still last up to four days on one charge. (See Niftylift moves into lithium power, page 24).

JCB announced its move into booms early last year and showed the prototype 50ft diesel AJ50 D at Conexpo and Vertikal Days 2017, however no other models in the range have been seen and as far as we understand production units have yet to ship. Another interesting boom seen at Conexpo was JLG's 460SJ on a self-levelling chassis - but no further information has been released on when production models will be available.

Lithium power on aerial lifts is clearly becoming more mainstream and pioneer Hinowa will celebrate 10 years of lithium battery power in

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Manitou's third generation 52ft 180 ATJ uses a smaller Kubota diesel engine with LSU pump to extract more performance.

October. It says that it has delivered 1,000 lithium lifts so far and has not had to replace a single full battery pack. It took five years to fully eliminate initial teething problems, changing out several component suppliers before finally perfecting its lithium battery pack which is currently in its second generation.

Third generation Manitou booms

Manitou has launched a third generation 46ft/52ft - 160 and 180 ATJ articulated boom lifts, matching a smaller Kubota diesel engine to the company's well proven Load Sensing hydraulic system with LSU pump which manages to extract more performance from the smaller engine. Gradeability increases from 36 to 45 percent, new lifting and tie down lugs make it easier to lift the

machine without putting pressure on the new modified covers or the need to use a spreader beam. Other features include smoother controls, wider wheels and tyres and the Stop & Go automatic engine stop/start system gives a claimed eight percent reduction in the 'total cost of ownership'.

Hi-spec MEC

MEC's latest boom is the high specification 45ft 45-AJ Rough Terrain articulated boom lift. The Kubota diesel powered machine is very Genie 45 and offers 360 degree continuous slew, solid rough terrain tyres, a triple entry platform with swing gate and oscillating front axle. Outreach is 7.6 metres, with an up and over height of 7.5 metres. Maximum platform capacity is 227kg. The unit is built for MEC by Dingli in China to its detailed design changes in order to deliver a cost

effective product with all the MEC 'bells and whistles' resulting in 'full-featured, rugged, simple and reliable boom lifts'.



MEC's latest boom is the high specification 45ft 45-AJ Rough Terrain articulated boom lift

Let's get together

The current ANSI standards are being completely updated, to the point where new machines complying with the updated US standard will be much closer to the models that meet current European, ISO and Australian standards, which have largely been harmonised. We look at the main changes from the old ANSI standards and how machines are changing and what effects this might have on North American-built platforms shipped to overseas markets.

Historically European and North American aerial work platforms have differed in several key areas because they comply with different standards - the American National Standards Institute - ANSI and the European Standard EN280.

Units sold in the USA currently comply with ANSI A92.5 and A92.6, which deal with manufacturers' stability, testing and safety requirements. The Canadian Standards Authority (CSA) standards are also quite

similar for obvious reasons. ANSI certified platforms are also used in many Central and South American countries.

Aerial lifts sold into Europe have had to adhere to the Machinery Directive since the single market came into force in 1992 with the CE mark designating compliance. In 2002 the first EN 280 standard was published, which guided compliance with relevant machinery directives. More recently the International Organisation for Standardisation (ISO) standard ISO16268 was



Occupants in the platform must have the knowledge on how to work safely including how to use fall protection, the location of the harness anchor points and how to complete emergency procedures in line with manufacturer's warnings and safety information

drafted, it largely followed the latest version of EN280 and guided the update of the Australian standards. With the ANSI standards well beyond their sell by date, it made sense that they be redrafted along the lines of the ISO standard, helping move towards a single global safety standard.

The changes to ANSI are quite significant and will have an impact on the way some North American contractors work. It has also created some real challenges for manufacturers as well as dealers and rental companies as these new machines begin to ship. The changes might also carry some product liability issues in the USA, such as in the case of a fatality that might have been avoided if a safety device required under the new standard or previously used in Europe was fitted to the machine involved?

The new ANSI standards - A92.20 - will bring North American platforms closer to the European machines by eliminating most of the current variations. Standards for safe use (A92.22) and training (A92.24) bring them even closer. Work on the new standards is being carried out by the Aerial Platforms Committee ASC A92 - approved by ANSI - and made up of a wide range of individuals and groups from the access industry. The core changes include platform overload cut outs, indoor/outdoor ratings, stability calculations, entrance gates, guardrail heights and operation when off level. While these are welcomed by most end users, those who typically overload platforms or operate on excessive slopes will obviously be irritated when a new machine cuts out and stops them from abusing the machine and putting themselves at risk.



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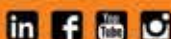
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The new ANSI standards - A92.20 - will bring North American platforms closer to the European machines by eliminating most of the current variations

Under the new standards the platforms will be classed differently - those that move vertically but stay inside the tipping lines (scissors for example) and those where the platform extends beyond the chassis (e.g. booms). Both can be divided into three further categories - those only driven in the stowed position, those driven elevated but controlled from the chassis and those driven elevated and controlled from the platform.

Occupants in the platform must have the knowledge on how to work safely, including how to use fall protection and the location of the harness anchor points, how their actions could affect stability, how to safely use accessories, how to stick to the safety plan and avoid site specific hazards and how to complete emergency procedures in line with manufacturer's warnings and safety information.

Load sensing

The addition of active load sensing is probably the most obvious change. Current standards place the onus on the operator not to overload the lift. However, complying with A92.20 means aerial work platforms must be equipped with a load sensing device that disables the lift functions and activates an audio visual alarm when overloaded. Those that have overloaded machines in the past will have to re-plan their work or use a different machine. While load sensing adds some complexity to the platforms, the technology has been in use in Europe for more than 20 years and is now well proven. Scissor lifts will use a combination of scissor stack angle sensors, pressure transducers on the lift cylinders and/or load sensing pins, while booms will use load cells to measure platform load. In order to overcome obvious objections from users, manufacturers are busy adding higher or dual platform capacities



to their machines - in some cases requiring structural changes to the lift structure - which benefit users worldwide. Additionally, the fact that all machines will now have overload devices, allows manufacturers to build this into the machine, reducing cost and improving reliability.

Wind forces

One of the main differences between the current ANSI and EN/ISO standards is the manner in which the effect of wind loading is applied to stability tests and calculations. Under the new A92.20 standard scissor and mast-type vertical lifts will be impacted considerably, with narrower slab electric units affected more than the wider, heavier Rough Terrain units. For example, a current ANSI scissor lift may have a two person capacity with a 12.5 metres a second wind rating. Under A92.20 it may be reduced to two people and zero wind - 'indoor use' - with one person capacity possible for 'outdoor use'. Narrow outdoor rated scissor lifts are also likely to weigh more which affects loading and transport, as well as floor loadings and the ability to ride elevators etc.



One of the main differences is the effect of wind loading when applied to stability tests and calculations. Here is an example of an A92.20 decal.

Manufacturers may opt to simply switch the rating on current indoor/outdoor machines to indoor use only. Rental companies need to consider this when purchasing in order to match their customer's requirements.

When it comes to boom lifts most self-propelled booms over 40ft are less likely to be affected by the new wind rating requirements, but narrow aisle boom lifts may require more weight or a change in rating? Certainly, expect more



There may well be a further move towards solid perforated side wall cushion tyres

stringent restrictions on the size of material loaded into the platform and supported by attachments such as glazing kits and pipe racks etc.

Tyres

Changes in the way stability and overturning moments are calculated will in most cases result in a switch to foam filled or solid tyres, a trend that has been gathering pace in North America for some time. Once again this has been a requirement in Europe for many years. What is likely is a further move towards solid perforated side wall cushion tyres.

Platform entry and guardrail heights

Currently many North American platforms, especially small scissor lifts, have a guardrail height of around a metre. Going forward they will have to be 1.1 metres, the same as in Europe. This could mean that some units will no longer pass through a standard door without folding the guardrails down. The chain gate entrance will also go - no 'flexible' devices are permitted under the new standard - gates with toe boards or drop bars with fixed toeboard will replace them.



The chain gate entrance will also have to go - replaced by gates with toe boards or drop bars with fixed toe boards

Tilt sensing requirements

Going forward platforms will need to cut out before they reach an unsafe slope angle - most boom lifts are currently fitted with tilt alarms that simply make an obnoxious noise when a machine moves onto a slope of two or five degrees and more. With most machines rated for working on firm level ground and tested to five degrees in the most unstable position, manufacturers will need to decide on a cut-out angle that will not destroy the



A tilt sensor will be needed to stop platforms reaching unsafe slope angles

practicality of the machine. The option exists - particularly on boom lifts - for manufacturers to combine the overload sensor and boom position indicator to effectively have a load chart that allows working on slopes where overturning is unlikely, such as with shorter booms, lower boom angles, lighter or some cases heavier loads. Some manufacturers are considering a slope selection switch that allows user to dial in, something like ... Level ground up to two degrees, or Up to five or even 10 degrees, with the system then limiting the machine's working envelope to match, cutting out when the selected slope is exceeded, thus adding to a machines capability rather than detracting from it.

Machine manuals

Operator manuals must include a list of the machine's functions, features, operating characteristics, limitations and devices needed for machine familiarisation. Each machine must have a space to mark the date of the last annual inspection.

Summary

When ANSI A92.20 is finally published manufacturers have 12 months to meet the new standards. The new standard will not be retrospective This means that buyers can choose to stock up on platforms that comply with the existing standards, while others restrict their purchases to machines that comply with the new standard. Some manufacturers have already been redesigned their models to comply. Larger international contractors are likely to stipulate all machines on their sites must comply with the latest standards, while smaller companies may seek out the older, 'less restrictive' models for as long as they can.

The net result is that manufacturers will be able to move closer to a 'world' machine allowing owners to sell their used machines anywhere without major modifications. It will also allow a new approach to some system designs, integrating them into the base machine rather than a 'bolt-on' for certain markets. This tends to lead to better designs with a lower cost. All in all, a positive change for the longer term.

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Niftylift moves into lithium power



As the saying goes 'there is many a true word spoken in jest'. The joint 'Star Trek' April Fool news story on Vertical.net jokingly said: "We (Niftylift) decided to boldly go where no one has gone before... The technology will put us light years ahead of competitors who still cling-on to old technology."

The story of course builds on the new Nifty HR12 LE (Light Electric) and HR12 LEL (Light Electric Lithium) which has a lithium ion or AGM battery pack. Unfortunately Di-Lithium crystal technology is still currently unavailable, but the HR12 LEL has 'crossed the final frontier' of battery design using lithium power in a standard production self-propelled boom lift for the first time.

The new Nifty HR12 LEL has caused something of a stir, firstly because it can be powered solely by lithium ion batteries and secondly it weighs almost a tonne lighter than its previous models the HR12 4x4 and the 'narrow' HR12N which are also considered to be at the lighter end of the boom lift spectrum.

The 33ft HR12 is the elder statesman of the boom lift world, dating back almost 30 years but is still as popular as ever even though

it is largely unchanged - at least visually. In the late 1980's Niftylift launched its first self-propelled boom lift - the 26ft Height Rider 10 - but its limited outreach quickly prompted the development of a telescopic version, the Height Rider 12. It also pioneered the bi-energy concept, mainly due to the poor battery life and gradeability of the all electric model. However the concept struck a chord with many rental companies, in that one machine could be used both indoors and outdoors, helping boost utilisation. It has remained popular over the intervening years - in spite of only the most modest of design changes and several attempts from other manufacturers to make it obsolete with alternative product

offerings - thanks to its light weight, narrow overall width, simple design and first class reliability.

Mostly sold with Bi-Energy - Battery/Diesel power - the only criticism in the early years was its mediocre performance on rough terrain. However in 2006 Niftylift rectified this with the introduction of the 4x4 model which carried over all of the proven componentry from the standard HR12, but featured a new chassis with four hydraulic drive motors, greater ground clearance and a larger two cylinder Kubota 452 engine. The lift still retained its Bi-Energy battery power pack allowing it to work inside or in quiet locations as well as on site. The standard tyres were lugged tractor tread, although a non-marking white



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How the new Nifty HR12 LE L compares with other HR12 models

	Niftylift Nifty HR12 LE L	Niftylift Nifty HR12 4x4	Niftylift Nifty HR12N	Niftylift Nifty H12
Working height	12.1m	12.2m	12.2m	12.2m
Outreach	6.4m	6.1m	6.1m	6.1m
O/A Width	1.79m	1.6m	1.5m	1.8m
O/A Length	3.97m	4.1m	4.1m	4.1m
O/A Height	1.98m	1.95m	1.9m	1.9m
Gradeability	25%	30%	25%	25%
O/A Weight	2,540kg	3,470kg	3,435kg	2,630kg
Platform Cap	200kg	200kg	200kg	200kg
Power options	Lithium ion or AGM battery	Diesel or Bi-energy or Bi-energy	Battery, Petrol, Diesel or Bi-energy	Battery, Petrol, Diesel
Travel speed	6kph	3.7kph	3.4kph	3.4kph
Turning radius	3.63m	3.4m	4.2m	3.15m
Cage size	1.2 x 0.85m	1.1 x 0.65m	1.1 x 0.65m	1.1 x 0.65m

version was also available. The overall weight was still a handy 3.3 tonnes and while the unit has greater ground clearance stowed height was still under two metres.

Until very recently Niftylift still produced the HR10 which had a 10 metre working height, 4.5 metre outreach and 1.5 metre overall width, the same as the narrow version of the HR12N - which has 12.2 metres working height and 6.1 metres of outreach but was heavier at 3,435kg. The standard HR12 has a 1.8 metre overall width but weighs just 2,630kg compared to the HR12 4x4 at 1.62 metres wide and weighing 3,470kg.

On first glance at the table above, the latest lithium powered HR12 LEL appears to have a very similar specification, however this is not the case.

Working height is 100mm lower at 12.1 metres however outreach has increased by 300mm. The width is now 1.79 metres, almost as wide as

the original HR12 but it is also slightly shorter and slightly higher. Travel speed on lithium power is much quicker at six kilometres an hour.

The HR12 LEL's new covers, new controls and a compact version of the Nifty Tough-Cage - which is still bigger than previous models - brings its total weight with lithium ion batteries to just 2,540kg. It can also be ordered with AGM batteries which increases its weight by about 100kg. The low weight allows it to be towed on a standard two axle equipment trailer, a concept that appears to be growing in popularity again, especially in the Netherlands, Germany and even London in the UK, where demand for same day delivery or collection is increasingly popular.

Niftylift has almost travelled back in time with the new HR12 LEL with a very similar weight and width to the original, but the new technology has breathed new life into the HR12 which hopefully means it will be a big hit with the 'next generation' of users.



A 2006 HR12 4x4

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The case for hydraulic luffers

Tower crane development over the past few years has been rapid, with most manufacturers adding new models with increased performance to cope with the demands of current construction techniques. However, one type of tower crane - the hydraulic luffer - which was once a bit of an oddity is now appearing in the product ranges of an increasing number of manufacturers. We take a look at the benefits of this type of tower crane and compare what is currently on the market.

There are several reasons for the increased popularity of the luffing jib tower crane. On congested, inner city sites the crane's ability to raise its jib, thus avoiding oversailing adjacent property or safety hazards such as rail lines or power cables is particularly appealing, especially in markets where this is an issue such as the UK, Hong Kong and Australia. Luffers are also particularly useful constructing tall tower blocks when working space for each crane is severely restricted, reducing the risk of collision with its neighbours.

With space restricted sites being the natural habitat of the luffer, there is often insufficient room available

for delivery, set-up and erection/dismantling. While luffers are ideal for this habitat, the topless hydraulic luffer is even more suitable, especially on the smallest sites, being more compact and quicker and easier to erect. It is therefore no wonder that demand and usage is on the increase.

Luffing cranes have been particularly popular in the UK primarily because of the ancient legal principle that a landowner's rights stretch from the centre of the earth all the way to the stars. Although legislation has given aircraft rights to pass over without causing any trespass, the principal holds good when nearer the ground. So when a contractor slews a tower crane there is a real risk that oversailing neighbouring airspace will amount to trespass, not to mention the dangers of lifting over an area not controlled by the contractor.

Users appreciate the benefits of using a luffing jib crane particularly on such sites which resulted in manufacturers producing more compact cranes with smaller out of service radii. However, despite the use of hydraulic powered luffing booms - such as the Liebherr HB series launched in the 1950s which had a very fast luff speed - hydraulic luffers went out of fashion in Europe causing the company to halt HB series production.

The reason for their demise? Possibly



Raimondi will launch its first hydraulic luffer - the 10 tonne/50 metre LRH174 - in the next few months

the need for specifically trained service engineers and erectors, or leaky hydraulic systems and the potential for the jib to creep down overnight or when the crane was out of service?

A current alternative crane which offers similar benefits is the articulated crane which is also making a comeback - such as the four tonne capacity Artic Raptor 84 and its bigger brother the eight tonne Raptor 184 pioneered by City Lifting in the UK. 20 to 30 years ago similar cranes would have been the Tornborgs Magni S-40 and S-46 which had a maximum radius of 30 metres and a 2.2 tonnes capacity. The advantage of articulated cranes such as the Raptor 84 is the very small out of service radius of just four metres. Even the larger capacity Raptor 184 has an out of service radius of just 4.5 metres.

The pioneer of the modern hydraulic luffer was German company Jost and in late 2005 it introduced its third generation tower cranes - the JTL 108 and JTL 158 hydraulic topless luffer which offered the versatility of a luffing jib and a topless crane in a single unit. The JTL 158 had a capacity of 2.4 tonnes at a 50 metres radius, while its 75 degree maximum jib angle

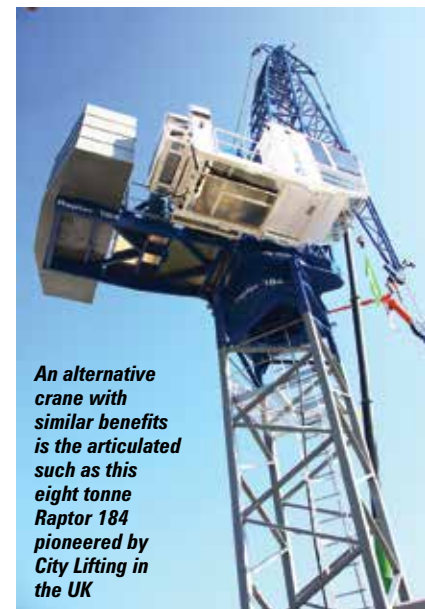
gave an 8.3 metre overall length from counterweight to jib tip. The products got off to a very good start selling well, satisfying pent up demand for such a crane. In the years that followed Jost developed a comprehensive line of hydraulic luffing cranes from 80 to 300 tonne/ metres and has delivered more than 200 cranes since then.

Hydraulic advantages

Advantages of the topless design is that it is easier to erect with an All Terrain crane, reducing the overall



Wolff 166B



An alternative crane with similar benefits is the articulated such as this eight tonne Raptor 184 pioneered by City Lifting in the UK



A Jaso hydraulic luffer with the cylinder behind the tower

height of the lift, and the jib section can be changed to suit the capacity of the assist crane. Unfortunately, the design means that the jib sections have to be bigger and heavier which limits the hydraulic luffer to around the 350 tonne/metre class. Most hydraulic luffers can also be erected in less than a day - compared to a day and a half or longer for a traditional rope luffer.

In 2014, the hydraulic luffer design raised concerns following the collapse of several cranes in the UK during high winds. The Health & Safety Executive was sufficiently worried to issue a tower crane alert to operators, reminding them that any luffing jib tower crane left unattended in the out of service condition must be in free slew mode with the jib at a safe out of service radius. Owners were asked to double check safe out of service radii, the function of the slew brake release mechanism, the condition of the slew drive motors, gearboxes and slew ring so that the crane was not prevented from slewing freely to properly weathervane. The use

of a sail device was also added to some models to help weather vaning when the jib is left in its smallest out of service position. Jost issued a reinforcing kit for its cranes to improve resistance to high winds.

New launches

Over the past year or so Potain has entered the sector with its first topless hydraulic luffer - the MCH 125 - and Raimondi is in the final stages of launching its first hydraulic luffer.

This means there is now - or will soon be - a choice of hydraulic luffing tower cranes from seven manufacturers - Wolffkran, Jost, Jaso, MTI Lux, Saez, Potain and Raimondi. Wolffkran is believed to have a new hydraulic luffer on the drawing board - the 133B which is a smaller version of its 166B - but is deciding whether this is the right size for the market. Perhaps surprisingly Liebherr, Terex and Comansa do not have any products in this sector - probably because of the limited geographic demand and relatively small global market at the present time, although this is changing.

Potain MCH 125

At the beginning of this year Potain launched its first topless hydraulic luffer - the MCH 125 - first seen as a prototype at Bauma China in November 2016. Since then pre-production units have been on test on Potain distributor job sites in Thailand, Australia and New Zealand. The crane has a maximum capacity of eight tonnes, five jib lengths from 30 to 50 metres and



The new Potain MCH125



Over the next month or so Raimondi will launch its first hydraulic luffer - the 10 tonne/50 metre LRH174

a jib tip capacity of two tonnes. Maximum hoist line speed is 100 metres a minute when fitted with the 60 LVF 20 hoist. The crane has been designed for fast erection and dismantling. Potain claims a 40 metre free-standing height crane can be erected in less than six hours and the entire upper works of the crane including its full 50 metre jib can be transported on four trucks. The MCH 125 can be mounted on existing 1.6 or two metre Potain towers with jib sections from the MCR luffing jib cranes and can raise its jib from horizontal to 87 degrees in around two minutes. We mentioned the speed of the old Liebherr HB series - the four tonne capacity HB 50 took just 50 seconds to fully raise its jib! And some modern rope luffers are almost as fast.

The Potain is unusual in that it features a short, fixed counter jib rather than the usual dynamic counter jib on this type of crane. The crane also features Potain's Vision 140 cab, claimed to be one of the largest on the market. Deliveries will begin shortly, with the crane initially being available initially in Asia, Africa, the Middle East, Russia and South America, but surprisingly not in Europe.

Raimondi LRH174

Over the next month or so Raimondi will launch its first hydraulic luffer - the 10 tonne/50 metre LRH174 - which has a maximum jib tip capacity of 2.4 tonnes at 50 metres.

Raimondi says its 10 metre out of service radius is a major feature of this crane compared to a traditional luffer with a minimum double that radius.

The crane boasts easier installation - similar to a flattop crane - due to the lack of A-frame and tie rods. The jib is assembled at ground level for a single lift. Preparation of the jib, hoisting winch and rope reeving are all completed at ground level reducing work at height requirements. Raising the jib to 85 degrees takes only 108 seconds and the crane houses the new generation Raimondi safety control system.

Jost JTL 68.4s

Jost's latest topless hydraulic luffer - JTL 68.4s - has an out of service radius of just four metres - small enough to rival the articulated Artic Raptor 84 - with the first unit recently delivered to UK tower crane company Bennetts. The JTL 68.4s features a short, four metre counter jib, rather than the 6.9 metre jib on the standard 68.4. The crane and jib have significant structural reinforcement to cope with the high stresses imposed by the smaller sail area for weather vaning/free slew when out of service in strong winds. Maximum radius is 35 metres at which it can handle two tonnes.

The crane has been designed specifically for the smallest job sites and urban areas where contractors face serious issues of over sailing. The new crane's first contract was



A Jost JTL 68.4s being erected by a Jost JTL 108



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How the new Jost compares with the Arctic Raptor articulated tower crane

	Jost JTL 68.4s	Arctic Raptor 84
Max jib length	35 metres	30m
Max capacity @ m	4,000kg @ 17.7m *	4,000kg @ 21m
Max radius and capacity	2,000kg @ 35 m	2,000kg @ 32m
Min out of service radius	4 metres	4 metres
Max free standing height	30 metres	32 metres
Power supply	400v 50Hz	400-480v 50/60Hz
Max hoist speed 4 tonnes	31m/min	45m/min
Tower size	1.13 x 1.13 metres	1.26 x 1.26 metres

*with 35 metre jib

a student accommodation block for Exeter University on a site in the centre of the city. The site is not only tight but abuts both a busy road and commercial and residential properties, leaving little room for manoeuvre. It was erected using an existing Jost JTL 108 luffing jib tower crane that had been positioned a few weeks previously. Bennetts managing director Edward Seager said: "The new Jost JTL 68.4s is an excellent solution for this site. With such a short counter jib and out of service radius there is no issue with it over-sailing properties, however it can still lift four tonnes. We see this crane being very popular in London, where sites can be small and very challenging."

The Jost is available with three different jib lengths - 25, 30 and 35 metres - providing five metres more than the Arctic Raptor. The 25 metre jib has a maximum capacity of four tonnes at a 20.6 metre radius which is similar to the Raptor 84's maximum at 21 metres. At 25 metres the Jost can lift 3.3 tonnes and with the 30 metre jib it can take four tonnes to 17.7 metres - 2.1

metres less than the Raptor. The Raptor also has an additional two metres free standing height but uses a larger 1.26 metre square tower. All in all, these two very different types of tower crane offer similar overall performance. Overall the Raptor just has the performance edge, but perhaps most importantly, both have the critical out of service radii of four metres.

Jaso

Over the past two years or so Spanish manufacturer Jaso has launched several new models including two hydraulic luffers - the 45 metre/six tonne J118HPA and more recently the larger J168HPA, which can handle six tonnes at 30 metres radius and 2,500kg at its 50 metre jib tip. The Jaso HPA series is unusual in that it has the single hydraulic lift cylinder at the rear of the tower rather than at the more usual front. Jaso claims the design provides a more reliable luffing mechanism, extending the service life of the cylinder, reducing power consumption and giving the crane a compact minimum out of service radius of seven metres. The hoist



A Jaso HPA luffing

is located on top of the jib which it says is safer in operation and allows the crane to be transported by six trucks.

Jaso has also launched its cloud based Smartlink system which allows full remote monitoring and reporting of the crane's performance, including an alarm system that warns of overloads and

excessive wind speeds etc.

Wolff 166B

Wolffkran launched its first hydraulic luffer - the 166B - in 2012 and to date it remains its only hydraulic tower crane in the company's range. We understand that the company is looking to add a smaller model - possibly the 133B? - but is still researching potential market demand.

Hydraulic luffing cranes

Manufacturer	Model	Max jib length	Max Capacity
Jaso	J118HPA	45	6 tonnes
Jaso	J168HPA	50	6 tonnes
Jost	JTL 68.4	45m	4 tonnes
Jost	JTL 68.4s	35m	4 tonnes
Jost	JTL 78.4	40m	4 tonnes
Jost	JTL 78.6	40m	6 tonnes
Jost	JTL 98.4	45m	4 tonnes
Jost	JTL 98.6	45m	6 tonnes
Jost	JTL 108.6	45m	6 tonnes
Jost	JTL 118.6	45m	6 tonnes
Jost	JTL 118.8	45m	8 tonnes
Jost	JTL 158.6	50m	8 tonnes
Jost	JTL 168.8	50m	8 tonnes
Jost	JTL 168.10	50m	10 tonnes
Jost	JTL 208.12	55m	12 tonnes
Jost	JTL 218.10	50m	10 tonnes
Jost	JTL 218.12	50m	12 tonnes
Jost	JTL 268.12	55m	12 tonnes
Jost	JTL 268.16	55m	16 tonnes
Jost	JTL 318.12	55m	12 tonnes
Jost	JTL 318.16	55m	16 tonnes
MTI Lux	MTL100-6	45m	6 tonnes
MTI Lux	MTL120-6	45m	6 tonnes
MTI Lux	MTL170-8	50m	8 tonnes
MTI Lux	MTL220-10	55m	10 tonnes
Potain	MCH 125	50m	8 tonnes
Raimondi	LRH174	50m	10 tonnes
Saez	SLH 80	45m	5 tonnes
Saez	SLH 100-6	45m	6 tonnes
Saez	SLH 190-8	50m	8 tonnes
Wolff	166B	55m	12 tonnes



A Jost JTL 158.6



MTI Lux MTL220-10



Wolff
166BErecting a
Jaso HPA
craneRaimondi
LRH 174

The 166 tonne metre Wolff 166B slots between the company's traditional 100B and the 224B rope luffers and utilises a single hydraulic luffing cylinder along the same lines as Jost. Maximum capacity is 12 tonnes when dual reeved - six tonnes on a single line, while jib lengths of up to 55 metres are possible in five metre increments with a maximum jib tip capacity of 1.8 tonnes increasing to 2.8 tonnes at 50 metres.

The standard 60kW jib mounted hoist can handle up to 500 metres of rope, which can be reeved on the ground before the crane is erected. Minimum radius on full jib is around three metres at which point the counterweight tail swing is reduced to about two metres giving a total clearance radius of five metres. If the main top section is separated the heaviest single component is 7.4 tonnes. If left assembled the tower top, jib connection frame and luffing cylinder weighs 13,120kg. The standard concrete counterweight can be replaced with the more compact steel

alternative as an option.

Summary

The hydraulic luffing jib tower crane was pioneered by the German company Jost which found an immediate market in the UK where congested city centre sites are plentiful and oversailing a major issue. Since then other manufacturers have entered the market including Potain and over the next few months Raimondi. With so much focus on this niche sector higher sales and geographic spread are surely likely, encouraging Liebherr, Terex and Comansa to join the party, which would give this market an even more significant boost which could spread the concept beyond the classic luffing jib markets.



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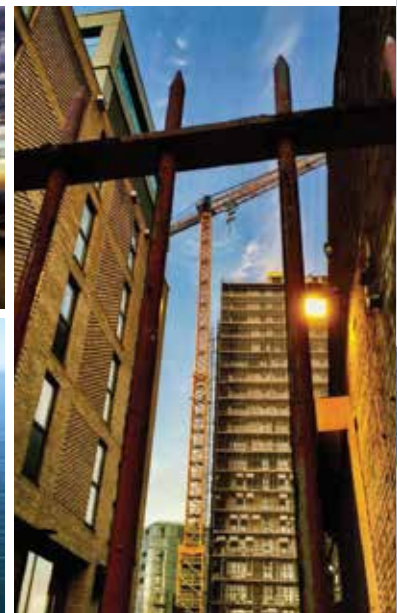
Since 2015 Falcon Tower Crane Services has been the largest independent tower crane rental company in the UK. Rapid expansion particularly over the past five years has seen its tower crane fleet grow from less than 200 units to more than 400 today. Mark Darwin, visited its sprawling head office facilities at the old American airbase at Shipdham near Thetford in Norfolk and spoke with commercial director Andrew Brown and national sales director Ian Gray.

Gray has been with Falcon for 20 years and has seen the changes which have taken place throughout that time. "The old company carried out its work well but has adapted considerably to keep up with innovations and changes in the industry. With the huge investment made in the depot facilities we are keen to encourage all our clients to visit to see the scope of the operations being carried out," he said.

Falcon has completely transformed itself over the past ten years, reinvesting profits into equipment, workshops, training and people. It went through a Management Buy Out in May 2006, involving six directors and managers. However, a year ago, the various companies

and divisions were consolidated into one trading company and one holding company. Falcon Tower Crane Services Limited - which deals with all the equipment rentals - includes Brown and Gray, as well as managing director, Barbara Brown, operations director, Philip Gale and sales director Steve Paxman. The holding company - Tower Crane Asset Management Holdings Limited - deals with crane sales. Company revenues in 2017 were around £60 million and these are projected to increase to £70 to £75 million this year.

"We ordered our 400th crane at the beginning of this year with our expansion achieved by retaining existing customers and winning new ones - a combination not only



of price, but also the quality of the product and customer service," says Brown. By reinvesting in the fleet, the average crane age is down to six years and eight months which we think is good, considering the fleet size - now 410. The cycle now is to reinvest in cranes, people and facilities both here and our depots in Birch, Manchester and Lesmahagow in Scotland."

Falcon is also UK distributor for Spanish tower crane manufacturer Jaso and has developed a power division with more than 150 large generators. In addition to this the company has added state of the art shot blast and spray facilities in both depots and a training academy.

Founded in the 1970s, Falcon began

life as a self-erecting tower crane rental company and evolved into a national tower crane supplier. It then progressed selling and renting tower cranes internationally. During the 1980's the focus moved towards conventional saddle and luffing jib cranes with the fleet steadily increasing to more than 200 tower cranes. For a short period the self-erectors were phased out owing to market conditions and also the company rented goods and passenger hoists.

25 years ago, the strategy was to update and standardise the fleet with Jaso cranes, by selling older units for export. During the financial crisis of 2008, UK rental activity plummeted and the company shifted its focus to international crane sales.

Falcon has invested heavily in its own transport fleet



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In doing so, key members of staff were retained and the training of apprentices continued, positioning the company in a strong position when the economy recovered.

The company has continued to expand and currently employs 460 staff. This includes a new dedicated self-erecting tower crane division with 75 cranes. The company is probably close to its maximum fleet size, limited by the availability of staff to install and maintain them correctly and available workshop space in which to overhaul and repair them.

"Initially, an early concern was how to sell second-hand Jaso cranes which were unknown in the UK. However, with the growing popularity of the Jaso brand internationally, this problem has disappeared. Following the recession, Jaso sold the majority of its rental fleet, so if its agents or customers around the world look for used cranes, we try to sell our older units to Jaso and replace them with factory built, new units," said Gray "We have just sold three J360 cranes to Australia after they finished a contract in London and we have replaced them with new larger J560s which are now on a contract in Birmingham."

Falcon has also just recruited Mel Edwards who was with the CITB for more than 29 years involved with the CPCS card scheme, most recently as technical developer for plant. She starts her duties with the company next month to head and expand its training department.

"Mel was responsible for facilitating the changes to the CPCS standards for tower cranes so for her to join Falcon is fantastic for us," said

Brown. "The industry has a shortage of experienced crane people, which makes it hard to recruit. To counter this we run erector courses in our dedicated training yard - taking on eight trainees at a time who learn by constantly erecting and dismantling cranes in the yard's controlled environment, before being allowed onto site. Yes, it is a struggle to get good people but by training our own people, on our own equipment, it helps to provide the company with a good source of trained competent staff. It is our intention to expand this activity to offer our services to external companies, in due course," said Brown.

"At Vertical Days this year, we will show all the areas in which we are involved, including our generator division which, having begun with a single unit for a customer in London, has expanded rapidly. The division only runs Stage 3A compliant sets and is currently ordering forward to achieve Stage 5 compliance as and when it is needed. We have engineers strategically placed over the UK and can now look at hiring generators outside of the tower crane business."

All the lifting ancillary equipment, generators, lighting and anti-collision systems are based at the Birch, Manchester depot, which has recently installed a large paint and shot blasting facility, matching the one at Shipdham.

"We decided to invest in the main facility at Shipdham for our crane inspections," says Brown. "It has to be one of the best in the country with two spray and one shot blasting booth, housed in one of the old World War II hangers on site. We have invested a lot of money



Falcon now runs a fleet of 150 Stage 3A compliant generators

in this side of the business for two reasons - health and safety, because blasting the components back to bare metal makes it so much easier to inspect the crane thoroughly for cracks and defects, before it goes back out on hire and secondly, to maintain the appearance of the company's equipment so as to offer clients smart cranes in keeping with their own image".

"The paint operation is at full capacity at the moment and could expand the facilities further by taking on more outside work. We have painted tractors and telehandlers, but the hanger is big enough for a mobile crane. When we sell a used tower crane we always respray and service it first."

Current market

"Rental rates over the past few years have increased but we always maintain the price of the crane over the contract, even if it over runs. With long-term customers we felt we couldn't just increase the prices. We have increased them, but not to the extent of other companies," says Gray. "The market is strong at the moment, particularly for luffers, although this can fluctuate for no apparent reason. Last year we had big demand for the Jaso J160s - a mid-range saddle jib crane - and purchased 20 of them. However, now the J168 hydraulic luffer is very popular and we have 35 in the fleet. Surprisingly, Jaso has even had demand for its hydraulic luffers in North America."

"Years ago, we collaborated with Jaso in the production of a small luffer for the UK market, capable of fitting inside a lift shaft. They built two J80s which we purchased to start replacing older Liebherr models. They relied on us to make the model a success and we now have over 50 of them. From that model, the J138 was evolved and now that in turn has been replaced with the J168 hydraulic luffer.



Crane sections after shot blasting



The new paint booth



Our most popular luffer is the 60 metre/18 tonne J208. We now standardise on the J118, J168 and J208."

"The advantage of the hydraulic luffer is its low power requirement and narrow parking radius," says Gray. "But we have worked with Jaso to develop a park radius device for the rope luffers that sits against the A frame, to reduce the out of service radius. With wind sails in the jib to weather vane, even the large J380s can be reduced to a 10 metre parked radius - as long as the tower is large enough to take the additional forces. We have also won contracts in London due to the greater free-standing heights of the Jaso cranes. We have a J138 erected in Wembley, with a 96 metre free standing height with 3.6 metre sections at the base."

But why have a young, modern fleet when rental rates are the



Falcon Crane Services is the UK's largest independent tower crane company with a fleet of more than 400

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same for both new and old? "The advantage of the new Jaso cranes is the telematics/black box system which will allow us to diagnose faults remotely. They are highly efficient - the black box reports the faults and soon there will be two-way communication passing on lift information/performance with the ability to repair remotely. The design and performance of the cranes are similar but new cranes have the advantages of the new technology."

The Falcon fleet is primarily Jaso but it also includes Potains and Liebherr 32TTs in the self erecting division. "In 2015 we won a competitive tender to take over the running of McCarthy & Stone's in-house fleet of 29 tower cranes," says Brown. "They had decided to follow a business model which did not include owning and running their own plant and we were delighted to be able to offer our services in supplying them with whatever craneage their sites might require. We now look after their requirements nationwide supplying them with around 80 cranes a year - most of them higher capacity cranes than they had in their own fleet

as their site needs have evolved and changed. This in itself is a good-sized business, scattered all over the coastal towns of the UK, which has actually helped improve our back-up service ability. A few weeks ago we put two J160s on the Isle of Skye. We also have a few cranes in mainland Europe - two in the Netherlands with a third going in soon, a J300 going into Germany and a few in Belgium, all through Jaso agents."

Direct operators

"Since the inception of the company, all of our operators are directly employed. All have been trained on our cranes and we have all their training and medical records. Of the total of 460 staff, about 300 are operators. It is harder to get operators for the self-erectors, particularly during the winter - no one wants to stand outside with a remote control all day! Around half of the machines are rented with operators in other cases, our customers supply their own staff. We do occasionally rent out larger towers without an operator, but the client's drivers are carefully vetted and inducted so as

to ensure safe working."

Future

"We have a lot of investment plans, not only for cranes, but also the infrastructure of the company. We have built a new workshop with overhead cranes in Shipdham and are expanding the Manchester depot with another yard, making it more like the head office facility. It is our intention to concentrate on supplying our clients with the cranes they need to successfully and efficiently carry out their contracts. We also aim to continue with our training policy to try to encourage young people to enter our industry."



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Big new venue - more equipment than ever



This year's Vertikal Days is being held at an exciting new venue, Donington Park, one of the leading motorsport circuits in the UK which hosts numerous national and international events. The new venue is located in a central location, with good connections to the UK motorway network. It is as close to East Midlands International Airport as is possible or desirable with its impressive array of large hotels and facilities. The event will have more exhibition stands than ever before, all of them on good quality hard standing. In the absence of a strong international exhibition this year, many manufacturers plan to use the event for significant new product launches, with a good selection of new crane, aerial lifts and telehandlers due to be unveiled, along with new technology, component and specialist service launches.

There are more than 150 stands with exhibitors representing over 300 manufacturers and suppliers, all of them dedicated to providing equipment and solutions for working safely at height or lifting heavy loads. It will without question be this year's largest display of lifting equipment and associated products anywhere in the world.

The event is being held within its popular May dates, with the hope of benefiting from similarly

good weather to last year. While there are numerous changes and improvements this year, the key principles of the event remain the same with free car parking, free coffee, tea and snacks in the Marketplace Café, along with a free hot lunch in the Catering Pavilion.

Learning opportunities

As usual there will be a few short seminars on offer - all free - including a CPA open meeting covering its latest projects. The



charity My Future My Choice is also back, organising its workshops for local school children in partnership with Liebherr. Sessions this year will be held in the Launch Pad Building

alongside the Organisers Office, with the students having a guided tour of the show to complete their introduction to the industry.



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More ancillary suppliers

This year the event has attracted more new exhibitors offering a wide selection of ancillary equipment and services, ranging from operator training, to lubricants, tyres, fleet or site management software, insurance, finance, security systems, safety equipment, batteries, remote controls, asset tracking and below the hook attachments. Many, but not all of them, are located in the Marketplace, which as usual also serves as the café offering tea, coffee and homemade flapjacks all day, with room to meet up, chat or even close a deal.

Catering

As in previous years, the Catering Pavilion will be the main base for lunch, with a new caterer making his debut, however the menu will still include the popular Hog Roast with free range pigs, along with a separate barbecue and sandwich kiosk and a few new additions to the menu.

Lunch menu

- Slow roasted outdoor reared whole pig with sage and onion stuffing and homemade apple sauce
- Barbecue stall with burgers, sausages and vegetarian options
- Crisp country salad (v)
- Luxury deli style coleslaw (v)
- Rustic new potato salad (v)
- Selection of fruit (v)
- Chocolate brownies (v)
- Freshly baked bread rolls

Evening networking event

This year the networking event is returning to its previous format on Wednesday evening in the Catering

Pavilion, where our new caterer will introduce a range of fresh dishes. The musical entertainment will be provided by the Last Dynasty Band. Tickets are initially reserved for exhibitors, but there could potentially be some last minute ticket returns. Email info@vertikal.net for more information.

Show Information

Venue: Donington Park, Castle Donington, Derby, DE74 2RN

Follow the signs and use the main/paddock entrance - speed your entrance to the venue by having your badge or invitation ready at the main entrance. You can download your visitor badge from www.vertikaldays.net

Show times and dates:

Wednesday 16th May
10:00am to 17.30 and

Thursday 17th May
10:00am to 16.30

Coffee, tea and snacks served all day in the Marketplace. Lunch is served in the Catering Pavilion or Barbecue/Sandwich area between 12:30 and 14:30

How to register

- Pre-register online and print out your badge OR
- Bring along a completed invitation and swap this for a lanyard/badge OR
- Just turn up with a business card and swap it for a badge/lanyard. You will however benefit from bringing a copy of this magazine along with you to wave at the security on the entrance gate

Networking event (ticket required)

Wednesday evening 19:15 to 23:00 in the Catering Pavilion

Access Equipment & Telehandlers

A-Plant: Stand 207/8

The rental sponsor for Vertikal Days, A-Plant is providing generators, fencing and barriers for the event and will show a wide range of equipment from several of its divisions, including the FLG lifting gear division, with a wide range of lifting and safety equipment for hire and sale. Members of its technical team will also be on hand to assist with lifting equipment needs and challenges. Also on the stand will be Mather+Stuart temporary power division, which will be highlighting its new Hybrid Power Generator which combines diesel power with a large battery pack, allowing it to operate overnight in silent mode, automatically restarting the diesel in the morning which recharges the batteries while providing regular power. The company says that it provides fuel savings of up to £2,000 a year.



Mather+Stuart's Hybrid Power Generator

Access Industries: Stand 417

See Multitel Pagliero

Access Platform Sales (APS): Stand 300

APS offers a wide range of new and used access platforms and is an authorised distributor for Genie, Hinowa, MEC and Youngman Boss low level access platforms, as well as a reseller for Niftylift. The APS stand will feature some of the latest products from Genie, Hinowa, MEC, Niftylift, Aldercote, Wienold and Youngman Boss.

Access Sales International: Stand 209a

Ruthmann distributor ASI will display the 20 metre Ecoline RS200 on a Mercedes Benz 3.5 tonne

chassis, the 28.5 metre Ruthmann TU285 City Steiger on a 7.5 tonne chassis and the 51 metre Ruthmann T510HF, the highest platform available on an 18 tonne chassis.

The company will also be promoting Ruthmann's new 90 metre truck mounted lift, which is due to start shipping later this year.

AD Astra Equipment: Stand 209a

See Access Sales International

Aerial and Handling Services: Stand 402

Aerial and Handling Services - the UK and Ireland distributor for Airo boom and scissor lifts - will show its new 46ft compact scissor lift and convertible platform for push around scissors and its deckRailXtra attachments for handling bulky objects such as tubes and panels etc. Look out for a dual platform PAV.

AFI UpLift: Stand 309a

See AJ Access Platforms

Airo: Stand 402

See Aerial and Handling Services

AJ Access Platforms: Stand 309a

The official UK and Ireland distributor for Holland Lift, AJ Access' stand will have two Holland Lift platforms on display, the 65ft narrow aisle HL-220 E12 battery electric scissor lift, which offers 500kg platform capacity, and the diesel full



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Hek MC 450

width Rough Terrain HL-220 D25, suitable for outdoor and heavy duty applications. The company is also a dealer for Manitou, and will show the 10 metre Manitou 100VJR mast boom, with 3.15 metres of outreach and 200kg platform capacity, and the 66ft Manitou 220TJ telescopic boom lift.

Aldercote: Stand 300

See APS

Alfa Access Services:
Stand MP25

Alfa Access Services is the new Teupen distributor for the UK and an independent service provider, offering official service coverage for ATN, Bravi and Denka, as well as Teupen. The company will show one of two new 50 metre Teupen spider lifts that it has sold along with other equipment and a display of its technical and service coverage abilities. Alfa is also a distributor for Gantic battery chargers and a range of non-marking rubber tracks. The company specialises in service, repair, training, LOLER inspections and bespoke installations.

Almac: Stand 408

Almac will display various models from its growing range of scissor lifts equipped with its levelling technology for working on steep slopes. Products on display will include the 26ft Bibi 1090-BL EVO and the 20ft 870-BL EVO. The company will also display two models from its range of scissor lifts with jack levelling, the narrow aisle 20ft Bibi 850-HE and 40ft Bibi 1470-HE with an overall width of 1.5 metres.

Ascendant Access:

Stand 418a/b

See Skyking

ATN: Stand 212

French manufacturer ATN returns to Vertikal Days with a new addition to its 12 metre mast boom range the 12.65 metre Piaf 12E Max, which offers just over six metres of outreach at a height of 7.3 metres. It is joined by the 10 metre Piaf 10E and Piaf 1010 mast booms, the 47ft Zebra 16 STAB articulated boom



Almac Bibi 1090-BL EVO

lift which features stabilisers for working on an incline, and the 23 metre Mygale 23 spider lift.

Avant Tecno: Stand 310

See Central Platform Services

Bizzocchi: Stand 108

See CTE UK

Bluelift: Stand 112/13

See Snorkel UK

Böcker UK: Stand 124

Vertikal Days is the formal launch of

Böcker's new direct sales operation in the UK, which will handle the company's full product range. In addition to the cranes on the stand, look out for the company's line of ladder hoists, including the Agilo HL 27.

BoSS: Stand 300

See APS

Bravi: Stand MP25

See Alfa Access Services



ATN Piaf 12E Max



Teupen Leo50GT

Alimak Hek: Stand 312

Celebrating its 70th year, Alimak Hek will show the Hek MC 450 mastclimber work platform, offering deck lengths of 10 to 30 metres for single and twin masts. This will be alongside the Scando 650 hoist and the Hek TPL 1000 lift.



The new Smartlift buggy

Bronto Skylift: Stand 418
Bronto Skylift will exhibit the 70 metre S70XR and the 56 metre S56XR truck mounted platforms from its XR line. The S70XR is the latest in the Bronto Skylift range, offering over 36 metres of outreach and 17 metres of up and over reach. The S56XR has an outreach of more than 40 metres and a platform capacity of 700kg.

Cautrac: Stand TS2a
Returning to the show, Cautrac is bringing its 14 metre Morooka MST300VD crawler platform, which provides 6.4 metres of outreach and 230kg platform capacity.

Central Platform Services: Stand 310
Central Platform Services will show a variety of products from the manufacturers that its represents

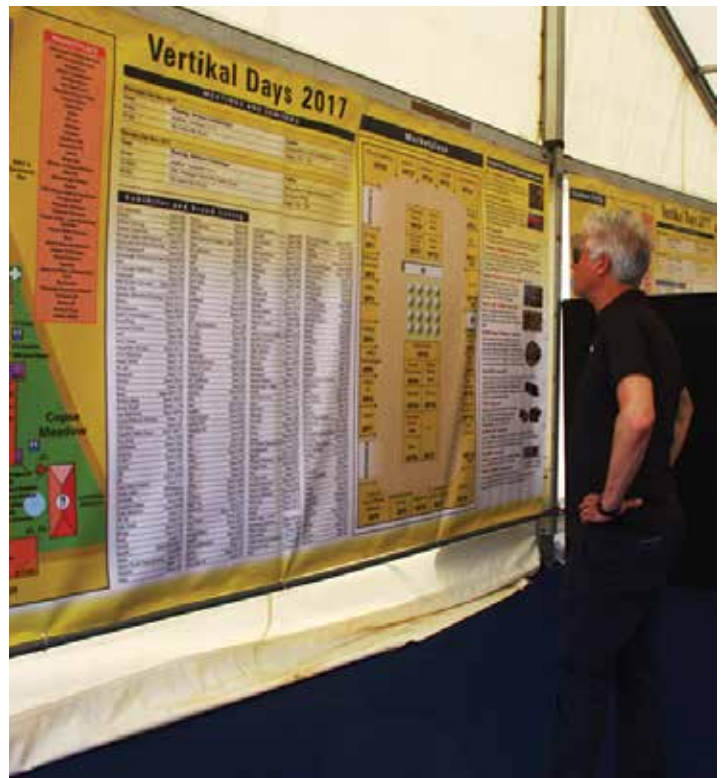
in the UK, and will launch the new glazing robots from Smartlift, including the SL380 midi and the new motorised buggy. Other products will include the new 23 metre Dinolift 230VT truck mounted lift on a 3.5 tonne chassis with 13.7 metres outreach, and the Leguan L165 skid steer spider lift equipped with a fibreglass basket.

Charles Wilson: Stand 109
Rental company Charles Wilson (CW Plant Hire) will be exhibiting at Vertikal Days for the first time. They will show some of the latest Genie machines, including the 33ft Z33/18 and 60ft Z60FE boom lifts. The 46ft Dingli 1612DC electric scissor lift will also be on the stand, as well as a 17 metre/4,000kg JCB 540-170 telehandler and a Doosan industrial forklift.

CLM/Maber: Stand 101a
CLM and Maber will show the new electric 10ft UPlift5 Mini low level access platform, as well as three machines for materials and passengers. The MB500 goods hoist is used for transporting materials up to a height of 120 metres, the MBC1000 is a dual purpose machine for both materials and passengers, featuring an interlocking gate so that the hoist cannot be lifted without the gate being fully closed, and the larger MBC2000. CLM also invites you to try out its Virtual Reality challenge on its stand.



Comet Xiraffe 4x4



CLM's UPlift5 Mini

Comet UK: Stand 404
Italian manufacturer Comet will launch the Xiraffe 4x4 ultra compact articulated boom lift range, ideal for forestry and other off road applications, providing 12 metres working height. Also launching are the Solar truck mounted platforms, suitable for motorway bridges, sign maintenance, and airport work. The Solar provides 11 metres of outreach and a 400kg platform capacity.

CPL: Stand 411/12
The UK vehicle mounted lift specialist is now partly owned by French manufacturer Klubb, and represents Palfinger Italia's light truck and spider lift products,

as well as Klubb van and truck mounted aerial lifts. On display will be the 13 metre Palfinger P130A pick-up mounted platform with 240kg platform capacity alongside a selection of Klubb van mounted platforms and its own CPL Chipper Tipper. The company will also highlight the introduction of its new zero emission range of conversions to the UK market.

CTE UK: Stand 108
CTE is keeping quiet about exactly which models it will show at Vertikal Days, but it is promising a new product launch and will almost certainly include one of its popular Zed articulated truck mounted lifts on a 3.5 tonne chassis, and models from its Traccess spider lift range.

CW Plant Hire: Stand 109
See Charles Wilson
Denka: Stand MP25
See Alfa Access Services

Dingli: Stand 407
Chinese aerial lift manufacturer Dingli will exhibit a range of battery powered slab scissors from its range, plus the ultra compact 13ft 0607DCS 5 and the 46ft/1.2 metre wide 1612DC. Also expect to see its 11 metre mast boom, and possibly one of its new European designed boom lifts.

Dinolift: Stand 310
See Central Platform Services
Easy Lift: Stand 403
Italian manufacturer Easy Lift will be bringing four spiders - the RA15.

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An Easy Lift spider lift

RA26, R180 and R300 - from its product line which now has lifts up to 42 metres.

Elevah: Stand 201

See Faraone

Falcon Lifts: Stand 202

See TCA Lift

Faraone: Stand 201

Faraone will demonstrate a range of units from its low level, self propelled and push around ranges ranging from four to 16 metres. The focus on this type of platform came from the need to improve efficiency for low level work while increasing safety.

GB Access: Stand 207/8

See A-Plant

Geda: Stand 413

See Mace Geda

Gehl: Stand 213

See Manitou UK

Genie UK: Stand 110

Genie will highlight its new generation of environmentally friendly hybrid work platforms and new additions to its XC Xtra Capacity boom lift range. Hybrid and electric models on show will include the 60ft Z-60/37 articulated boom and the 33ft Genie Z-33/18

lightweight battery electric boom. Xtra Capacity boom lifts on show include the 85ft S-85 XC or 65ft S-65 XC straight telescopics, and the 45ft Z-45 XC articulated booms. The company will also focus on new accessories and will be looking for feedback on an all-new proximity warning device planned for launch later this year. Other options include the new built-in Genie Lift Power generator option and Lift Guard Contact Alarm secondary guarding system, which can now be fitted on a wider range of the company's platforms. Genie also wants to challenge visitors to its stand with the hi-stryker fairground attraction.

GMG: Stand 211

Returning after launching at Vertikal Days last year, US-based aerial lift supplier GMG promises to unveil a number of radical new products along with the recently unveiled 10 metre VM26-J mast boom and all-new 15ft 1530-ED micro scissor, which weighs just 860kg. Also on the stand will be the 13ft 1330-ED micro scissor lift, 19ft 1930-ED and 26ft 2632-ED, 40ft 4046-ED and 46ft 4646-ED scissor lifts. They will be joined by the 40ft 4069-RT and 60ft 6094-RT diesel scissor lifts from



GMG 1530-ED

MEC. The company also plans to demonstrate its new radar based overhead protection system for scissor lifts.

GSR Aerial Platforms UK:

Stand 405/6

On the GSR stand is the 20 metre B200PX and 24 metre B240PX truck mounted platforms on 3.5 tonne Nissan NT400 and Mercedes Sprinter chassis. The B200PX features a dual sigma type riser, topped by a two section telescopic boom providing 8.7 metres of outreach with an unrestricted platform capacity of 250kg. The B240PX features a dual sigma type riser and three section telescopic boom and offers 12.3 metres

of outreach and an up and over clearance of around eight metres. Maximum platform capacity is 250kg with 140 degrees of platform rotation. On a 7.5 tonne Iveco Eurocargo chassis, GSR will show the 22 metre E228TJ, with an unrestricted outreach of 17.5 metres.

Helix: Stand 104/5

See GGR Group

Hematec: Stand 104/5

See GGR Group

Hinowa: Stand 301

Vertikal Days will be the UK debut for the all-new 32.5 metre Hinowa Lightlift 33.17 spider lift. The Lightlift 33.17 provides an outreach of 16.5



GSR B240PX

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Hinowa Lightlift 33.17

below ground level reach for jobs such as underbridge work or harbour wall repair. Hinowa has also added a wider platform than used on its smaller spider lifts, at 1.6 metres wide. Joining the Hinowa 33.17 will be booms from Hinowa's Lithium range and one of Hinowa's tracked mini-dumpers.

Holland Lift: Stand 309a

See AJ Access Platforms

IAPS Group: Stand 200/300

See IPS/APS

IMA: Stand 201

See Faraone

Imer: Stand 101b

Imer has its own stand this year and will launch the new IM 13180 E electric Rough Terrain scissor lift. It will also show its latest slab scissor lifts, including the IM 12090 and the IM 14122, along with the 19 metre IM R19 spider lift.

Instant UpRight: Stand TS4
Instant Upright, manufacturers of aluminium tower systems, will launch its new heavy duty

metres at an up and over height of 17 metres, with an unrestricted platform capacity of 230kg. The lift mechanism on the new machine features a four section telescopic lower boom/riser which elevates to almost 90 degrees, plus a three section telescopic top boom, and an articulating jib with 180 degrees of articulation. The 33.17 also offers



Aluminium modular scaffolding system from Instant UpRight

aluminium modular scaffolding system for the UK market. The system is constructed from high strength aluminium which weighs nearly half as much as steel. The stand will also have the Span 500 Tower, the folding Snappy work platform, and the Instant Spandeck walkways.

Isoli: Stand 418a/b

See Skyking

Iteco: Stand 101b

See Imer

Ixolift: Stand 210b

See Russon Access

JCB: Stand 308/9

JCB will display units from its electric scissor lift range, including

the 19ft S1930E, 32ft S3246E and 45ft S4550E, and possibly a boom lift. Its telehandler product line will be represented by the four tonne/17.5 tonne 540-180 telehandler and ultra compact Teletruk forklift. Also be sure to check out its new G116QS generator.

JLG: Stand 409/10

JLG will launch the H800AJ hybrid boom lift, so expect to see a heavy focus on the company's developing hybrid booms. It will also show a selection of its boom and scissor lift ranges, as well as its branded spider lifts. In addition the company will show its Power Towers low level access platforms.

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**JLG
H800AJ
hybrid
boom lift**



Geda Multilift P22

Klubb: Stand 411/12

See CPL

Laing Access: Stand 310

See Central Platform Services

Leguan: Stand 310

See Central Platform Services

Liftlux: Stand 409/10

See JLG

**Lingong Group Jinan
Heavy Machinery (LGMG):**

Stand 302b

Making its first appearance at Vertical Days, Chinese manufacturer LGMG will show the 14ft SS0507 scissor lift for the first time in the UK.

This is joined by the 19ft AS0607E and the 26ft AS0808E slab electric scissor lifts.



*LGMG
SS0507*

Lyte

Ladders:

Stand 418a/b

See Skyking

Maber:

Stand 101a

See CLM/

Maber

Mace Geda: Stand 413

See Mace Industries

Mace Industries: Stand 413

Mace Industries will show products from hoist and lift manufacturer Geda, ranging from compact 60kg wire rope hoists to personnel and material hoists with load capacities up to 3.2 tonnes and lifting heights up to 400 metres.

Magni UK: Stand 404a

Magni will launch the new 46 metre/six tonne 6.46 SH telehandler, the world's largest 360 degree telehandler. The machine has the working envelope of a 50 tonne crane but can also be used with forks, an access platform and a number of other specialist attachments. It will be joined by the 25 metre/five tonne RTH 5.25 Smart SH, and the 10 tonne/9.5 metre HTH 10.10 heavy duty, high capacity telehandler.

Manitou UK: Stand 213

Manitou will show its 10 metre 100VJR mast boom, alongside the 66ft 220 TJ telescopic boom lift, and sister machine 220 TJ+ which has a higher platform capacity at 350kg. These will be joined by the launch



Magni 6.46 SH

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Manitou 160 ATJ

of the third generation version of the company's popular 46ft 160 ATJ articulated boom lift.

MEC: Stand 211/300

See GMG/APS

Multitel Pagliero: Stand 417

Multitel Pagliero will use Vertikal Days to launch the new 30 metre SMX 300 HD spider lift with a larger platform capacity of 400kg. This will be joined by the new lithium ion battery powered 25 metre SMX 250 spider lift, which weighs just 2,600kg. The company's truck mounted range will be represented by the first 10 metre MS 100 sold in the UK, as well as the 29 metre MX 290, the 20 metre MJ 201 equipped with the new Multitel anti-entrapment option, a 20 metre HX 200 EX, 25 metre MX 250 and a 22.6 metre MJ 226 truck mounted platforms.

Niftylift: Stand 313

Niftylift will have a great deal to talk about as it launches its new 33ft HR12L lighter weight electric boom lift with a choice of AGM or lithium ion battery packs and overall weight of just 2,500kg. The company will also show the production version of the 65ft HR22S 4x4 Hybrid

telescopic boom lift, and the Mark III hybrid system on the HR21.

Ommelift: Stand 300

See APS

Pagliari: Stand 417

See Multitel Pagliero

Palfinger Platforms:

Stand 411/12/418a/b

Palfinger Platforms Italia -

See CPL

Palfinger Platforms above 3.5 tonnes

- See Skyking

PB Liftechnik:

Stand 210b

See Russon Access

Platform Basket: Stand 204

See Promax Access

Pop-Up: Stand 112/13

See Snorkel UK

Power Towers: Stand 409/10

See JLG

Promax Access: Stand 204

Vertikal Days will see the official UK launch of the new compact 30 metre Platform Basket Spider 30T telescopic spider lift, which at 890mm wide is one of the narrowest 30 metre spider lifts on the market. It is available in a hybrid version with diesel and lithium batteries. It will be joined by the 19 metre 18.90 PRO hybrid spider lift, providing 9.2 metres of outreach, and the compact 13.4 metre Spider 13.80 Hybrid with 7.8 metres of outreach.

ReachCraft: Stand 210b

See Russon Access

Russon Access: Stand 210b

Russon Access will show its latest range of high narrow aisle battery powered and big deck diesel scissor lifts from PB Liftechnik, with working heights of up to 32 metres.

Multitel SMX 300 HD



See the UK debut of the Platform Basket Spider 30T

Also expect to see models from its various low level access suppliers.

Ruthmann: Stand 209a

See Access Sales International

Ruthmann-Bluelift:

Stand 112/13

See Snorkel UK

Sky Aces: Stand 418a/b

See Skyking

Skyjack: Stand 106

Skyjack will display the 85ft SJ85 AJ articulating boom lift, with 17.7 metres of outreach at an up and over height of 10.36 metres, and a dual platform capacity of 341/227kg. The 30ft SJ30ARJE DC electric articulating boom lift will also be on the stand, alongside a range of its popular DC electric scissors, plus compact and full

size Rough Terrain scissors. At this year's event, there will be a particular emphasis on innovation, with a number of new Accessoryzer options. Other concepts on display will include SGLE (Secondary Guarding Lift Enable) for scissor lifts and the prototype of its new PPA (Platform Proximity Alert) ultrasonic overhead warning system for platforms. Skyjack will also highlight the benefits of its recently launched Elevate telematics solution, which it has developed in partnership with Trackunit.

Skyking: Stand 418a/b

Skyking will exhibit a range of aerial lifts, including 3.5 tonne trucks and van mounted platforms from Ascendant Access and larger truck mounted lifts from Palfinger Platforms Germany. The company will also launch its new dealership agreement with Isoli.

Snorkel UK: Stand 112/13

Snorkel UK will show its range of electric slab scissor lifts, compact Rough Terrain scissor lifts and electric and diesel articulated boom lifts. The event will also host the launch of its new European telehandler line. The company is now also the new exclusive distributor for Ruthmann Bluelift spider lifts for the UK and Ireland and will have a Bluelift spider lift on the stand.



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The new Falcon Vario crawler chassis

Socage: Stand TS5/6

Socage will use Vertikal Days this year to launch a new distribution initiative. A later entrant to the exhibition, it will also show a 14 metre A314 pick up mounted platform, a 20 metre 20D truck mounted platform and a 14.5 metre 15VTJ van mounted platform.

TCA Lift: Stand 202

TCA is now Falcon Lifts, and on the stand will be the 33 metre FS330Z Vario and 32 metre FS320C Vario spider lifts. Both models feature the new Vario tracked chassis which allows the operator to hydraulically adjust the height and width of the tracks via the radio remote control. This feature reduces the stowed height of the machines to 1.98 metres. You will also see the new anti-entrapment device that is now fitted on all models and can be retro-fitted on machines that date from 2012 with radio remote controls. The device immediately stops the machine when activated and retracts the last movement of the boom to release any pressure from the operator in the event they

become trapped.

Terex Utilities: Stand 411/12

See CPL

Teupen: Stand 414

Teupen will exhibit the 18 metre Leo18GT Plus spider lift on its stand, alongside others from the spider range. The company will also be discussing its recent announcement that after a successful five years of using Alfa Access Services as its service partner, Alfa has been selected as Teupen's sales partner for the UK and Ireland. Separately on the show ground is a 50 metre spider lift, one of two units that are due to be delivered after the show.

Toucan: Stand 409/10

See JLG

Versalift UK: Stand 203/303

Versalift will show its new LAT135-H E6 platform mounted on two new Euro 6 pick up trucks - a Toyota Hilux and a Isuzu D-Max. It features a working height of 13.3 metres, an outreach of 6.1 metres and 230kg platform capacity. The company will also show two models from its new VTL van mounted range.



Wienold Lift:

Stand 300

See APS

Xtreme:

Stand 112/13

See Snorkel UK

Youngman:

Stand 300

See APS

Zhejiang Dingli: Stand 407

See Dingli

Cranes & Lifting Equipment

AGD Equipment: Stand 117

AGD - the distributor for Marchetti and Sennebogen cranes in the UK and Ireland - will launch the new 55 tonne Marchetti CW55.40 telescopic crawler crane with a 40 metre main boom. From Sennebogen, the new version of the 16 tonne 613E will be on show with the optional wheeled under carriage. The crane can also be supplied with a working platform, forks and a grab



Sennebogen 613E

attachment. Also on the stand will be crane safety equipment from Elec-Mech, including wireless wind speed meters with a built-in data logger for any make or type of crane.



Böcker AK52-12000

Artic Crane: Stand 120

See City Lifting

Böcker UK: Stand 124

Vertikal Days is the formal launch of Böcker's new direct sales operation in the UK, which will handle the company's full product range including its latest aluminium truck crane the 12 tonne AK52-12000 mounted on a three axle 26 tonne truck with rear axle steering, four section main boom plus three section luffing jib for a 52 metre tip height with the option of 55 metres.



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PRICE	FROM £7,695



GENIE GS3232

TYPE	SCISSOR
YEAR	2015
POWER	ELECTRIC
PRICE	FROM £12,950



JLG E600AJ

TYPE	BOOM
YEAR	2010
POWER	ELECTRIC
PRICE	FROM £27,950



GENIE Z4525J

TYPE	BOOM
YEAR	2013
POWER	DIESEL
PRICE	FROM £23,950



JLG 600AJ

TYPE	BOOM
YEAR	2011
POWER	DIESEL
PRICE	FROM £28,950



MANITOU 100VJR

TYPE	MAST BOOM
YEAR	2018
POWER	ELECTRIC
PRICE	FROM £16,950



NIFTYLIFT HRI2NDE

TYPE	BOOM
YEAR	2012
POWER	BI-FUEL
PRICE	FROM £11,950



NIFTYLIFT HR15

TYPE	BOOM
YEAR	2012
POWER	BI-FUEL
PRICE	FROM £18,950

*Finance options available to the UK only



The i Raptor rescue system on a Raptor 184 crane

The crane has a maximum lift radius of 45 metres and can take a one tonne load to a 34 metre radius at a height of 30 metres. Also on the stand will be the AK46-6000 truck crane and the RK 36-2400 crawler crane.

City Lifting: Stand 120

One of the founding members of Vertikal Days, City Lifting will show the Raptor 184 articulated luffing tower crane from Artic Crane. The Raptor 184 has a capacity of eight tonnes at a 23 metre radius and four tonnes at 36 metres, while the minimum out of service radius is just 4.7 metres. It will also show the i Raptor rescue system, which helps to get a crane operator down to the ground in case of a heart problem or other severe illness with the use of a stretcher.

Comansa: Stand 120

See City Lifting

Cormidi: Stand 104/5

See GGR Group

Crowland Cranes:

Stand 114/15/16

See Manitowoc Crane Group UK

Demag: Stand 128/29

See Terex Cranes

Emerson Crane Hire:

Stand 418d

Rental company Emerson Crane Hire will be showing its new corporate colours on its new 300 tonne Liebherr LTM 1300 All Terrain crane and Volvo FM chassis with Palfinger PK650002 loader crane. The company will also have a 450 tonne LTM 1450 on Liebherr's stand, Emerson's first crane over 300 tonne capacity. Its training centre will be represented with personnel and information on the various lift-based training available, as well as its newly established driver training course.

Falcon Tower Crane Services: Stand 121a

Tower crane sales and rental company Falcon Tower Crane Services will be displaying two new Vicario self-erecting tower cranes - the OMV40 and OMV380. The OMV380 features a jib length of 15 metres and a maximum capacity of 1,500kg. It can be fully erected and dismantled in under nine minutes and can be towed behind a standard 4x4 vehicle. In addition, on display will be Falcon's range of generators, ancillary equipment and transport.

Fassi: Stand 111/121a

See Macs Truck Sales/Falcon Tower Crane Services

Ferrari: Stand 107

See Shawtrack Services



Falcon will show two Vicario self-erecting tower cranes

FLG Services: Stand 207/8

See A-Plant

Galizia: Stand 104/5

See GGR Group

GGR Group: Stand 104/5

GGR Group will show its range of Unic spider cranes with lifting capacities ranging from 995kg to 10 tonnes. Also on display will be the new AC500 assembly crane, as well as a range of mini crawler cranes, glazing robots, pick & carry cranes and glass vacuum lifters.

Giraf Track: Stand 104/5

See GGR Group

Grove: Stand 114/15/16

See Manitowoc Crane Group UK

Hematec: Stand 104/5

See GGR Group

Hitachi-Sumitomo: Stand 119

See NRC Plant

Hoeflon: Stand 102

Hoeflon returns to Vertikal Days after a year out and will show a range of its mini spider cranes.

Hoist and Crane Services:

Stand 311

Hoist and Crane Services has been appointed as the UK distributor for

Paus Lifttech and will be exhibiting products from the Paus range of elevators and PTK trailer cranes.

HTC Wolffkran: Stand 127

Tower crane manufacturer HTC Wolffkran will be on hand to discuss its range of services available from planning through to job completion. Staff will be available to meet and to discuss your project requirements and new crane purchases including the new Wolff 133B tower crane.

Jaso: Stand 121a

See Falcon Tower Crane Services

Jekko: Stand 103

See JT Crane Services

JMG Cranes: Stand 100

Italian manufacturer JMG Cranes will show its battery electric mobile pick & carry and carry deck cranes. The company's manufacturing range is divided into: radio-remote controlled cranes with capacities up to 13 tonnes, and cranes up to 58 tonnes. The team will show the new 10 tonne fully radio-remote controlled MC100RE carry deck crane, and the 900kg capacity Speedylifter 99 mini crane, which comes with various attachments including a vacuum lifter.



JMG pick & carry crane

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Jekko JF545

JT Crane Services: Stand 103
The UK dealer for Jekko cranes will show the 15.5 tonne JF545 spider crane with removable counterweight alongside the 7.5 tonne SPX1275 spider crane. The lithium battery powered 2.4 tonne Jekko SPX424 will also be on display, alongside the six tonne SPK60 telescopic crawler crane and the five tonne MPK50 pick & carry crane.

Kato: Stand 205/6/305/6
See Rivertek Services

Klaas: Stand 415/16
See Kranlyft UK

Kobelco Cranes Europe:
Stand 126

Kobelco will bring the 135 tonne CKE 1350 crawler crane, which features a 76.2 metre main boom. The company hopes to also bring either a 90 tonne CKE 900 or a 250 tonne CKE 2500.

Kranlyft UK: Stand 415/16

As the exclusive distributor for Klaas aluminium truck and trailer cranes, Kranlyft UK will have a range on show, marking the first time that the 'other' German aluminium crane producer will be exhibited in the UK. The truck and trailer cranes offer up to six tonnes capacity and a maximum hook height of 49.9 metres. The Klaas range will be topped by the six tonne K1000 RSX. From its range of Maeda cranes,

Klaas K1000 RSX



Kranlyft will show the new CC985 crawler crane and the eight tonne MC815 spider crane. These will be exhibited alongside the 2.82 tonne MC285-2 spider crane.

Liebherr: Stand 419/20/21/22
Liebherr will give its UK debut to the new 90 tonne LRT 1090-2.1 Rough Terrain crane, which features a 47 metre main boom and a 10.5 to 19 metre bi-fold swingaway option with up to 40 degrees of offset. This will be alongside the first 90 tonne LTM 1090-4.2 All Terrain crane sold in the UK, and the 450 tonne LTM 1450 8.1. Also from the manufacturer's All Terrain range will be the 70 tonne LTM 1070, 60 tonne LTM 1060, the 40 tonne LTM 1040, and finally the 50 tonne LTC 1050 City-type crane.

Linden Comansa: Stand 120
See City Lifting

Link-Belt: Stand 119
See NRC Plant

Macs Truck Sales: Stand 111
On display will be modified Fassi cranes on Scania tractor units with extended jibs up to 29 metres.

Maeda: Stand 415/16
See Kranlyft UK

Manitowoc Crane Group UK:
Stand 114/15/16

Manitowoc will show a range of All



The Liebherr LRT 1090-2.1 will make its UK debut

Terrain and Rough Terrain cranes from its Grove range, including the 150 tonne GMK5150L, 250 tonne GMK5250L, 300 tonne GMK6300L and the 35 tonne RT540 with the Crane Control System (CCS).

Mantis: Stand 122/23
See Tadano UK

Marchetti: Stand 117
See AGD Equipment

Montarent: Stand TS8
Montarent is the Dutch manufacturer of the Montalift mob tower crane, which was created in co-operation with Manitowoc. The Montalift features a Potain IGO MA21 tower crane on an undercarriage. Trailer and crawler versions are also available.

NRC Plant: Stand 119
NRC Plant will show the 100 tonne Hitachi-Sumitomo SCX1000A-3 lattice crawler crane, alongside the 51 tonne Link-Belt TCC-500 telescopic crawler crane. Both cranes feature the latest Tier 4 efficient engines, and a host of eco-friendly and safety innovations.

Paus: Stand 311
See Hoist and Crane Services

Potain: Stand 114/15/16
See Manitowoc Crane Group UK

Hitachi-Sumitomo SCX1000A-3



Reedyk: Stand 204
See Promax Access

Rivertek Services:
Stand 205/6/305/6
Kato's European distributor Rivertek Services will be launching the new 13 tonne CR-130Rf and 20 tonne CR-200Rf City-type All Terrain cranes. Also on the stand will be the 13 tonne CR-130Ri and 35 tonne CR-350Ri City-type All Terrain cranes.



See Kato's new City-type cranes on the Rivertek stand



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Sennebogen: Stand 117

See AGD Equipment

Shuttlelift: Stand MP19

Shuttlelift manufactures four different models of rubber tyred gantry cranes ranging in capacities of 25 to 1,000 tonne metres and greater, able to work both inside and outside. The new remote diagnostic feature is designed to wirelessly transmit machine information directly to a smart phone or tablet, allowing an offsite technician to troubleshoot any issues and, if need be, upload a new program all in the same session.

Smartlift: Stand 310

See Central Platform Services

Spierings: Stand 125

Spierings will show its SK487-AT3 City Boy mobile self-erecting tower crane, which the company says is the first hybrid mobile crane ever made. The three axle self-erecting tower crane features a 40 metre jib that can handle 1,700kg at the tip and handle seven tonnes. The maximum lift height is 55.5 metres

with the jib luffed to 45 degrees. The company will also show the 10 tonne SK1265-AT6 Mighty Tiny, which can lift 1,700kg at a radius of 60 metres and to a maximum height of 64.2 metres when the jib is luffed to 30 degrees.

Sunward: Stand 104/5

See GGR Group

Tadano UK: Stand 122/23

Tadano will give a European debut to the 80 tonne GTC-800 crawler crane. It will feature alongside its latest All Terrain crane, the 60 tonne ATF 60G-3. Also on display will be the 70 tonne ATF 70G-4 and the 220 tonne ATF 220G-5 All Terrain cranes.

Terex Cranes: Stand 128/29

From its Demag All Terrain crane range, Terex will bring the all-new 60 tonne AC 60-3, which features a 50 metre main boom, which the company says is the longest of any three axle All Terrain crane, plus a 16 metre extension. The crane comes with an optional remote control, giving the operator the ability to safely and easily rig and operate the crane remotely from the

Spierings SK487-AT3 City Boy



See the European debut of the Tadano GTC-800 crawler crane



Shuttlelift SL35II gantry crane



See the new Demag AC 60-3 on the Terex Cranes stand

ground. The AC 60-3 will be joined by a 220 tonne AC 220-5 and a 40 tonne AC 40-2L.

Unic: Stand 104/5

See GGR Group

Wienold: Stand 300

See APS

Wolffkran: Stand 127

See HTC Wolffkran

Other equipment and services etc...

A-Plant Training Solutions:

Stand 207/8

See A-Plant

Ainscough Training Services:

Stand MP51

Ainscough Training Services is one of the largest independent

specialist training providers in the UK, delivering training to industries wherever lifting operations take place including construction, manufacturing, engineering and transportation, aerospace, renewable energy, utility sectors and the MoD. The company is also a Construction Plant Competence Scheme test centre, and runs National Vocational Qualifications assessments.

Alimats (Beresford) Flooring:

Stand MP52

See Brilliant Ideas

AMCS Technologies:

Stand MP9/10

French manufacturer of safety devices AMCS Technologies designs and makes high-end electronic systems for tower cranes and other



Golden Anniversary

Alimak Hek, the world's leading manufacturer of rack and pinion lifts, construction hoists and mast climbing work platforms, is celebrating their 70th anniversary this year.

Their UK sister company, Alimak Hek Ltd, are also celebrating a milestone year, with 2018 marking their 50th anniversary. The UK team still has several units from this era in operation, proving the longevity of the rack and pinion system.

Alimak Hek products are designed and built to operate in the harshest environments, including construction sites, offshore oil production vessels, cement plants, power stations, mines, ports and warehousing.

Visit us at Vertikal Days 2018. Stand 312.





AMCS Technologies' SUP 61

machinery. On the stand will be its latest product, the SUP 61, which provides real time updates on onsite activity through an internet connection.

AmerParts: Stand TS11

AmerParts supplies replacement parts for aerial lifts, and will show its battery charger, designed for the UK market. The company will also

promote PowerSource, its range of water resistant battery chargers. Also on display will be replacement parts such as non-marking solid wheels for all leading brands, joysticks, control boxes and other electronic components.

Brilliant Ideas: Stand MP52

Brilliant Ideas will show its Alimats, the lightweight, purpose-designed product specifically developed to spread outrigger loadings. They can be used under cranes, aerial lifts, concrete pumps and scaffolding. The Hook Buddy, launched last year, will also be shown, which magnetically holds a ratchet strap hook temporarily in place on the tie pin whilst ratcheting down a load onto a trailer.



Alimats will be on Brilliant Ideas' stand

Canon UK: Stand MP23

Making its Vertikal Days debut, Canon's bespoke mobile solutions aims to eliminate the manual processing of paperwork, by storing documents on a tablet or mobile phone. All of the information travels electronically, saving time, money and increasing efficiency, whilst reducing errors and increasing productivity.

CanTrack Global: Stand MP16

First time exhibitor CanTrack Global will be available to discuss its service that allows users to specify their detailed requirements for a bespoke reporting dashboard and system. CanTrack's GPS is a vehicle tracking system, making it easier to manage fleet vehicles. CanTrack Asset is purpose designed to combat the tools and techniques used by thieves to locate and remove a tracking device post theft. Asset's technology is backed up by CanTrack's national team of investigators who work with the police to find your stolen hardware. The new and improved version of Asset is the same size, but has 25 percent more battery life than the original.



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Lifting gear from Carl Stahl Evita

Carl Stahl Evita: Stand MP18
Carl Stahl Evita will show its latest items from RUD's ICE 120 range with the new and improved VLBG-PLUS swivel lifting bolts. The company's range of MaxX lifting magnets will also be on display, as well as safety equipment from Tractel, including the new 150kg harness and lanyard range.

Certas Energy: Stand 418c
UK fuel and lubricant supplier Certas Energy will show an array of solutions designed to take the stress out of fuel management on site. This includes a range of portable fuel tanks, specialist lubricants for optimal engine performance, and Shell GTL, an alternative to diesel that lowers emissions and improves air quality.

Cetop: Stand MP31
See Fairway Hydraulics

CGS Tyres: Stand 302a
See Mitas Tyres

Construction Plant Finance:
Stand TS12

Launching at Vertical Days, Construction Plant Finance (CPF) is a new independent asset finance company started by Steve Moody, looking to support finance requirements specifically for the access, crane and construction industries. CPF directly deals with customers whilst also offering

bespoke vendor schemes for manufacturers and dealers. Go to its stand to discuss tailored asset finance solutions as well as information on other financial products including contract rental, invoice finance and business loans.

CPA: Stand TS1
The Construction Plant-hire Association represents equipment rental companies in the country. With 1,600 members which supply 85 percent of rental equipment to the industry, the CPA publishes a wide range of guidance documents which are distributed widely throughout the construction sector and are available online. The organisation is holding a free open seminar in the Senna Suite on the first day of the show, covering topics such as a voluntary MOT scheme for cranes, changes to the GLA LEZ emission standards for mobile cranes, the new lifting technician apprenticeship, and the implications of GDPR (General Data Protection Regulation) on the sector.

Crane Trader: Stand MP20
Crane Trader and CraneTrader.com are sources for new and used cranes and lifting equipment. Both provide detailed listings with colour photos covering thousands of cranes and lifting equipment for sale around the world.



Certas Energy will show its portable fuel tanks



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Wednesday 16th May 2018

Times	Meetings, Seminars & Workshops	Location
All day	My Future My Choice	Launch Pad Building
10:30am	CPA	Senna Suite

Thursday 17th May 2018

Times	Meetings, Seminars & Workshops	Location
All day	My Future My Choice	Launch Pad Building

Exhibitor and brand listing

A-Plant	Stand 207/8	Eaton	Stand MP31
A-Plant Training Solutions	Stand 207/8	Elebia	Stand TS10
Access Industries	Stand 417	Elec-Mech	Stand 117
Access Platform Sales (APS)	Stand 300	Elevah	Stand 201
Access Sales International	Stand 209a	Emerson Crane Hire	Stand 418d
AD Astra Equipment	Stand 209a	EuroGate International	Stand MP49
Aerial and Handling Services	Stand 402	Fairway Hydraulics	Stand MP31
AFI UpLift	Stand 309a	Falcon Lifts	Stand 202
AGD Equipment	Stand 117	Falcon Tower Crane Services	Stand 121a
Ainscough Training Services	Stand MP51	Faraone	Stand 201
Airo	Stand 402	Fassi	Stand 111/121a
AJ Access Platforms	Stand 309a	Ferrari	Stand 107
Aldercote	Stand 200/300	FLG Services	Stand 207/8
Alfa Access Services	Stand MP25	FMC Network	Stand MP22
Alimak Hek	Stand 312	Galizia	Stand 104/5
Alimak (Beresford) Flooring	Stand MP52	Gantic Battery Chargers	Stand MP25
Almac	Stand 408	Gapo	Stand 121a
AMCS Technologies	Stand MP9/10	GB Access	Stand 207/8
AmerParts	Stand TS11	Geda	Stand 413
APS	Stand 300	Gehl	Stand 213
Artic Crane	Stand 120	Genie UK	Stand 110
Ascendant Access	Stand 418a/b	GGR Group	Stand 104/5
ATN	Stand 212	Giraf Track	Stand 104/5
Avant Tecno	Stand 310	Glasboy	Stand 104/5
Bizzocchi	Stand 108	GMG	Stand 211
Böcker UK	Stand 124	Gorbel	Stand MP18
BoSS	Stand 300	Ground-Guards	Stand TS9
Bravi	Stand MP25	Grove	Stand 114/15/16
Brilliant Ideas	Stand MP52	GSR Aerial Platforms UK	Stand 405/6
Bronto SkyLift	Stand 418	Helix	Stand 104/5
Canon UK	Stand MP23	Hematec	Stand 104/5
CanTrack Global	Stand MP16	Henderson Insurance Brokers	Stand TS17
Carl Stahl Evita	Stand MP18	Hinowa	Stand 301
Cautrac	Stand TS2a	Hitachi-Sumitomo	Stand 119
Central Platform Services	Stand 310	Hitec Lift Trucks	Stand 307
Certas Energy	Stand 418c	Hoeflon	Stand 102
Cetop	Stand MP31	Hoist and Crane Services	Stand 311
CGS Tyres	Stand 302a	Holland Lift	Stand 309a
Charles Wilson	Stand 109	HTC Wolffkran	Stand 127
City Lifting	Stand 120	IAPS Group	Stand 200/300
CLM/Maber	Stand 101a	Identipro	Stand MP50
Comansa	Stand 120	Ifor Williams	Stand TS14
Comet UK	Stand 404	igus	Stand MP11
Construction Plant Finance	Stand TS12	IMA	Stand 201
Cormidi	Stand 104/5	Imer	Stand 101b
CPA	Stand TS1	inspHire	Stand MP27
CPL	Stand 411/12	Instant UpRight	Stand TS4
Crane Trader	Stand MP20	Intellitec MV	Stand MP30
Cranes Today	Marketplace	Intron Plus	Stand MP7
Cranesafe	Stand MP38	IPAF	Stand 404b
Crowland Cranes	Stand 114/15/16	IPS	Stand 200
Crown Batteries	Stand MP26	IronPlanet	Stand MP37
CTE UK	Stand 108	Isoli	Stand 418a/b
Cultor Tyres	Stand 302a	Iteco	Stand 101b
CW Plant Hire	Stand 109	Ixolift	Stand 210b
Demag	Stand 128/29	Jaso	Stand 121a
Denka	Stand MP25	JCB	Stand 308/9
Dingli	Stand 407	Jekko	Stand 103
Dinolift	Stand 310	JLG	Stand 409/10
Dispersion Technology	Stand TS19	JMG Cranes	Stand 100
Easy Lift	Stand 403	JT Crane Services	Stand 103

Kargo King	Stand 401	PSR	Stand 110
Kässbohrer	Stand 107	Rayco Wylie Systems	Stand 210a
Kato	Stand 205/6/305/6	ReachCraft	Stand 210b
King Trailers	Stand 418a/b	Reedyk	Stand 204
Klaas	Stand 415/16	RidgeGear	Stand MP14
Klubb	Stand 411/12	RIM Wizard	Stand MP13
Kobelco Cranes Europe	Stand 126	Ritchie Bros	Stand MP37
Kranlyft UK	Stand 415/16	Rivertek Services	Stand 205/6/305/6
Laing Access	Stand 310	RUD	Stand MP18
Latch & Batchelor	Stand MP43	Russon Access	Stand 210b
Leguan	Stand 310	Ruthmann	Stand 209a
Liebherr	Stand 419/20/21/22	Ruthmann-Bluelift	Stand 112/13
Lifting Gear UK	Stand MP44	SafetyLiftinGear	Stand TS18
Liftlux	Stand 409/10	Sanctuary Zone	Stand 402
Linden Comansa	Stand 120	Sennebogen	Stand 117
Lingong Group Jinan Heavy Machinery (LGMG)	Stand 302b	Shawtrack Services	Stand 107
Link-Belt	Stand 119	Shield Batteries	Stand MP26
Live	Stand 207/8	Shuttlelift	Stand MP19
Load Monitoring Systems	Stand MP40	Sky Aces	Stand 418a/b
Lyte Ladders	Stand 418a/b	Skyjack	Stand 106
Maber	Stand 101a	Skyking	Stand 418a/b
Mace Geda	Stand 413	Smartlift	Stand 310
Mace Industries	Stand 413	SMIE	Stand MP38
Macs Truck Sales	Stand 111	Snorkel UK	Stand 112/13
Maeda	Stand 415/16	Socage	Stand TS5/6
Magnetek	Stand MP15	Sortimo Van Racking Solutions	Stand TS7
Magni UK	Stand 404a	SpanSet	Stand TS13
Manitou UK	Stand 213	Spierings	Stand 125
Manitowoc Crane Group UK	Stand 114/15/16	Sterling GP	Stand 401
Mantis	Stand 122/23	Straightpoint	Stand MP5
Marchetti	Stand 117	Sunward	Stand 104/5
Mather + Stuart	Stand 207/8	Syrinx Stand	MP12
MCS Rental Software	Stand MP39	Tackle Store	Stand TS18
MEC	Stand 211	Tadano UK	Stand 122/23
Mentor Training Solutions	Stand MP29	TCA Lift	Stand 202
Michelin Tyres	Stand 209	Tecnomagnete	Stand MP18
Miller Weblift	Stand MP14	Teletac Navman	Stand MP32
Mitas Tyres	Stand 302a	Tensology	Stand MP7
Modulift	Stand MP6	Terex Cranes	Stand 128/29
Montarent	Stand TS8	Terex Utilities	Stand 411/12
Multitel Pagliero	Stand 417	Teupen Maschinenbau	Stand 414
My Future My Choice Launch Pad Building		Thermoil	Stand 200
Myerscough College	Stand MP8	TireSocks	Stand MP49
NBB Controls + Components	Stand MP41	Top Service	Stand MP17
Niftylift	Stand 313	Torquer	Stand MP21
Nolim	Stand TS2	Toucan	Stand 409/10
NRC Plant	Stand 119	Towergate Insurance	Stand MP4
Ommelift	Stand 300	Trackunit UK	Stand MP42
Orlaco	Stand MP38	Tractel	Stand MP18
OTR Wheel Engineering	Stand MP3	Trojan Batteries	Stand MP28
Outriggerpads	Stand TS16	TVH	Stand 304
Pagliero	Stand 417	Unic	Stand 104/5
Palfinger Platforms	Stand 411/12, 418a/b	Unitex UK	Stand MP14
Paus	Stand 311	Universal Crane Mats	Stand TS3
PB Liftechnik	Stand 210b	Verope	Stand MP43
Platform Basket	Stand 204	Versalift UK	Stand 203/303
Platinum International	Stand MP28	Vertikal Press	Marketplace
Point of Rental Software	Stand MP12	Wienold	Stand 300
Pop-Up	Stand 112/13	Wolffkran	Stand 127
Potain	Stand 114/15/16	Xtreme	Stand 112/13
Power Towers	Stand 409/10	Youngman	Stand 300
Promax Access	Stand 204	Zhejiang Dingli	Stand 407

Outdoor Site Plan

Vertikal days

DONINGTON PARK
May 16th-17th 2018

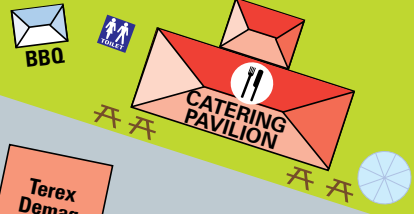
MARKETPLACE

- Ainscough Training Services
- Alfa Access Services
- AMCS Technologies
- Brilliant Ideas
- Canon UK
- CanTrack Global
- Carl Stahl Evita
- Crane Trader
- Cranes Today
- Cranesafe
- EuroGate International
- Fairway Hydraulics
- FMC Network
- Identipro
- igus
- inspHire
- Intellitec MV
- Latch & Batchelor
- Lifting Gear UK
- Load Monitoring Systems
- Magnetek
- MCS Rental Software
- Mentor Training Solutions
- Modulift
- Myerscough College
- NBB Controls + Components
- OTR Wheel Engineering
- Platinum International
- Point of Rental Software
- RIM Wizard
- Ritchie Bros
- Shield Batteries
- Shuttlelift
- Straightpoint
- Teletrac Navman
- Tensology
- Top Service
- Torquer
- Towergate Insurance
- Trackunit UK
- Unitex UK
- Vertikal Press

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**Visitor
Parking**

Entrance



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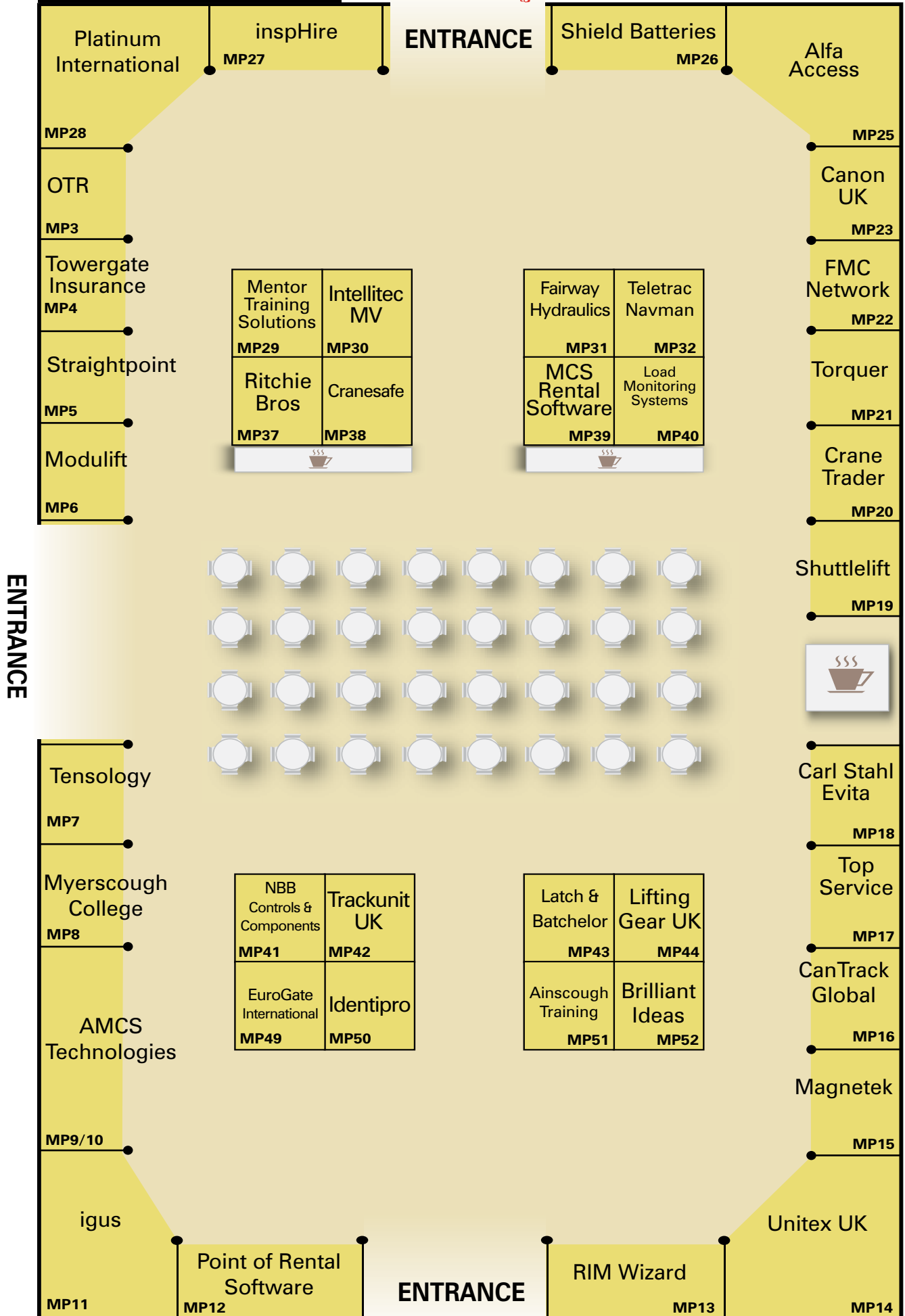
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Marketplace



DONINGTON PARK
May 16th-17th 2018



Competitions, special deals and promotions

As in previous years a number of exhibitors are organising competitions and promotions on their stand. Some can be a brilliant deal on a new product or service, while others are more personal, or just for fun. So if you are looking for a good deal or simply interested in trying your luck at winning a prize and having a bit of fun, then check out the following stands.

Ainscough Training Services:

Stand MP51

There will be a free prize draw to win a model of a Liebherr LTM 1030-2.1 All Terrain crane. To enter, just leave your business card or contact details at the stand. The company is also offering 15 percent off any course booked at Vertikal Days.



AJ Access Platforms:

Stand 309a

There will be two competitions on the AJ Access stand. Drop your business card into the fishbowl to be in with a chance of winning a £20 Amazon voucher, with the winner to be selected at random and announced after the event. Also, tweet a picture of yourself on Twitter with one of the AJ Access machines on the stand to be in with the chance of winning a £100 meal voucher. Tweet @AJAccess and @vertikaldays and use the hashtag #vertikaldays - the AJ team will pick and tweet to announce the winner after the event.

APS/Hinowa:

Stand 300/1

APS and Hinowa will host a 'spot the difference' competition to focus on the benefits of Hinowa lithium-ion technology.

There will be a chance for someone to win a Fitbit fitness tracker.



Canon UK:

Stand MP23

Canon is offering visitors to its stand the chance to win a Canon Legria HD compact camcorder. To enter, simply provide one of the Canon representatives with your contact details and a few details about your company.

Certas Energy:

Stand 418c

Test your lifting skills on Certas' 'Arcade Crane Grabber Game' to win a range of prizes that take the stress out of fuel management on site. Also share your views in a short fuel management survey and be entered into a prize draw to win a keg of beer, with the winner to be randomly selected at the end of the show.

CLM/Maber:

Stand 101a

There will be a happy hour on CLM's stand between 11:30am and 12:30pm, which will include special deals and offers. Also be sure to try out its Virtual Reality challenge.

Construction Plant Finance:

Stand TS12

To celebrate the launch of Construction Plant Finance at Vertikal Days, CPF will be bringing VertikalAle to the show, a drink that has been specially brewed and bottled by The Wincle Beer Company. Participants will also be in with a chance of winning a tour of the Mercedes-Benz Formula One facility in Brackley, Northamptonshire. To enter these competitions, drop your card in the box on Stand TS12.



Emerson Crane Hire:

Stand 418d

Emerson is holding a competition on both days giving visitors a chance of winning a model of a Liebherr LTM 1200 crane. Drop by its stand to either fill out a form or drop off a business card.



EuroGate International:

Stand MP49

EuroGate will have demo-kits of its TireSocks as a giveaway. For each of the days there is a hidden voucher in two of the demo-kits. The lucky ones who find the voucher will win a free set of TireSocks.



Falcon Tower Crane Services:

Stand 121a

Falcon Tower Crane Services will be collecting business cards from the start of the event, and towards the end a card will be pulled out at random to win a luxury Fortnum & Mason hamper.



Genie UK:

Stand 110

You are invited to the Genie stand to test your power against your colleagues and have a go at its hi-stryker fairground attraction.

In what is known as the 'King Of Capacity Challenge', there will be three winners each day, who will receive Genie branded boxing gloves.



Instant UpRight:

Stand TS4

There will be a competition to win a Snappy Platform, providing working heights of up to four metres. It is used by many different trades including decorators, electricians, and heating and ventilating contractors, and can be transported in a small van. To enter, there will be a game of 'gravity darts', where competitors stand on a platform on the stand and drop darts onto the board, with the highest score winning the Snappy, which will be shipped to the winner's address.



Load Monitoring Systems:

Stand MP40

Load Monitoring Systems will be offering a 20 percent discount on all Load Link Kits.

NRC Plant:

Stand 119

NRC is running a Safe Cracker Challenge on its stand in support of the Lighthouse Club, which provides financial



and emotional support to the construction community and their families who have suffered an injury or long term illness, or simply need a helping hand. For a donation of £1 you get one try or £2 you get three tries at choosing the right combination out of the lucky dip to win what's inside the safe. Prizes include Marks & Spencer vouchers, crane models and more.

Skyking:

Stand 418a/b

Leave your business card on Skyking's stand for a chance to win an off peak, self catering, family holiday for four to Butlins in the gold accommodation.

Teletrac Navman:

Stand MP32

There will be a competition over both days where three lucky people will win a Diecast 1:50 scale Cat model. With a telehandler, backhoe loader and a hydraulic excavator up for grabs, all entrants need to drop their business cards at Teletrac Navman's stand. At the end of Thursday, three cards will be chosen at random by the show organisers.

TVH:

Stand 304

Bring your business card along and take part in TVH's raffle for the chance to win a tool cabinet.



Unitex UK:

Stand MP14

Be in with a chance of winning two Alton Towers 2018 Season Passes (terms and conditions apply) in three steps - visit Unitex's stand and photograph your favourite RGH5 Super Glow feature, post the photograph on LinkedIn, tag@Unitex UK Limited and comment on the feature e.g. 'glow in the dark' or 'reflective yarn' and follow the company's LinkedIn page Unitex UK Limited. The winner will be picked at random and announced on 31st May.

Versalift:

Stand 203/303

Versalift will be focusing on the payload of its new pick up mounted platform. So on the subject of weight, the company has a fun multiple choice quiz on its stand, where you can guess the weight of everything from a grizzly bear to director Andy Bray. The prize for the winner is a track day at Donington Park.



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The new AC 300-6

Above and beyond.

Take your business to the next level with the new Demag AC 300-6. It delivers class-leading reach combined with strength, including the ability to lift 15 t on a fully telescoped 80 m boom. To allow for high versatility, the AC 300-6 can be adapted to the needs of a variety of jobs and is the smallest crane in the Demag AC range with a luffing jib. The HAV and many components are shared with Demag 5-axle cranes—increasing your return on investment and reducing the amount of spare parts you need to have on hand.

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MC815

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K27-32 TSR



K900 RSX



K1003 RSX



K21-30 TSR



K23-33 TSR-City



K400 RSX



The large product range offered by Klaas aluminium cranes offers the optimal solution for every application. The truck and trailer cranes offer impressive duties up to 6,000 kg and a lifting height of up to 54m. Klaas cranes are built for practical use and the extending, folding jib enables enormous lateral extension with maintained stability throughout 360° continuous rotation, all operated by remote control.



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Klaas

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Cranes Today:
Marketplace

The oldest English language crane magazine will have the latest issues on display in the entrance marquee.

Cranesafe: Stand MP38

Crane safety specialist Cranesafe distributes SMIE tower crane anti-collision systems, crane management systems and Orloco boom tip cameras and other products in the UK and Ireland. The company will also show ProSITE, new software dedicated to jobsite management.

Crown Batteries: Stand MP26

See Shield Batteries

Cultor Tyres: Stand 302a

See Mitas Tyres

Eaton: Stand MP31

See Fairway Hydraulics



elebia's C5 lifting clamp

elebia: Stand TS10

elebia will show its well known evo automatic safety hooks, and invites you to come and operate the evo hook with a remote control. The evo2 will be demonstrated on a mini crane, and the evo5 on a plinth. New products on the stand include the C5 automatic lifting clamps launched late last year. The clamps are ideal for lifting and moving steel plates, beams or pipes thanks to the automatic remote release feature and failsafe design.

Elec-Mech: Stand 117

See AGD Equipment

EuroGate International:
Stand MP49

EuroGate International - the leading producer of tyre covers to protect floors from costly tyre marks and contamination - will exhibit its TireSocks. The company has been growing in popularity throughout Europe after being a market leader in the USA.

EuroGate International's
TireSocks



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Screw-in cartridge valves from Fairway Hydraulics

Fairway Hydraulics: Stand MP31

New exhibitor Fairway Hydraulics is the UK distributor for Eaton cartridge valves and Cetop standard manifolds. The company has more than 50 years of experience and understanding of engineering, with technical support on hand with 3D CAD modelling and prototyping.

FMC Network: Stand MP22

Also new to the show, the FMC Network has been offering a recruitment service to the facilities management and construction sectors since 2007. Within its construction division it has a specialist focus on the equipment sector, including cranes, powered access and lifting equipment sectors, whether it's for a sales position, operations or service role.

Gantic Battery Chargers:

Stand MP25

See Alfa Access Services

Gapo: Stand 121a

See Falcon Tower Crane Services

Glasboy: Stand 104/5

See GGR Group

Gorbel: Stand MP18

See Carl Stahl Evita

Ground-Guards: Stand TS9

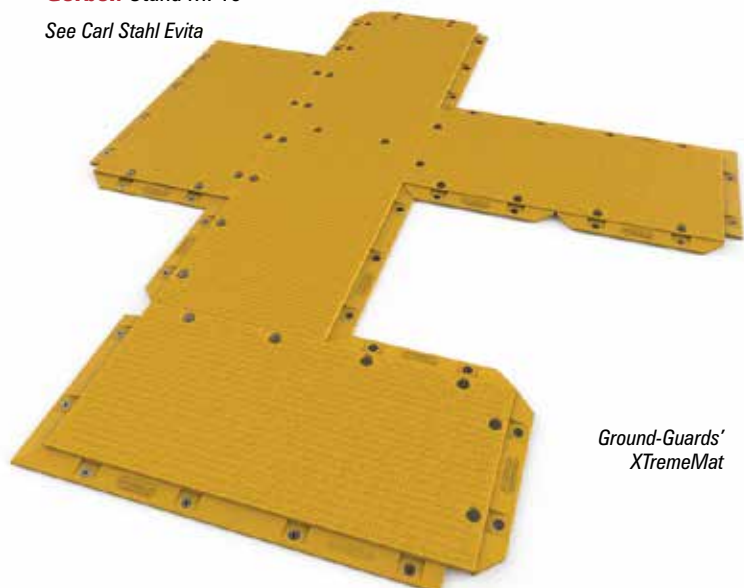
Ground-Guards will launch the XTremeMat at the show this year, which Ground-Guards says is the most advanced and versatile heavy-duty matting system in the world. Made with an ultra-tough HDPE plastic outer layer with a hard foam inner core for strength and buoyancy, XTremeMats are ideal for big projects in the toughest of environments.

Henderson Insurance Brokers: Stand TS17

Henderson offers bespoke insurance packages to companies involved in the cranes and access platform industries. The company covers employee liability, public and products liability, directors and office liability and much more.

Hitec Lift Trucks: Stand 307

The forklift sponsor for the event, Hitec is the dealer for the Cesab range of industrial forklift trucks. The company is part of Toyota Materials Handling Europe, and has been the Cesab dealer since 1994.



Ground-Guards' XTremeMat

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Identipro's label print system



Identipro: Stand MP50

Identipro's range of sign and label print systems allow users to quickly mark their equipment and tools by printing their own industrial grade, bespoke labels including durable asset labels, safety signs and labels with safety symbols included. Be sure to visit the stand for a demonstration.

Ifor Williams: Stand TS14

Ifor Williams offers trailers for commercial or domestic use. Its trailers are used in a wide variety of industries, including construction and farming.

igus: Stand MP11

New exhibitor igus will show the new E4.1L e-chain for protecting and guiding moving cables and hoses. Developed to combine the strength and stability of the E4.1 system with the easy accessibility of the E2/000 system, the E4.1L was developed specifically to save assembly time.

inspHire: Stand MP27

Rental management software provider inspHire will exhibit its brand new inspHire Asset Tracker software. The latest innovation gives users the ability to see all of their equipment locations and usage on a single map view, as well as being able to monitor the live status of equipment with telematics integrations. inspHire will also show its wide range of products, including inspHire Office, Corporate, Mobile and CRM.

Intellitec MV: Stand MP30

New from Intellitec at Vertikal Days this year will be the Awilco ES-2000 all-in-one energy system for vehicle installation. Using state of the art lithium battery technology, the system can be recharged from mains AC or from the vehicle DC alternator system. Key features include a built-in smart Bluetooth app for monitoring power usage and battery state of charge. Also new



igus E4.1L

and on display will be Intellitec's new range of CAN based switch panels and DC I/O controller.

Intron Plus: Stand MP7

See Tensology

IPAF: Stand 404b

This year IPAF will have a safety walkthrough on its stand, which will demonstrate the main contributing factors to falls from an aerial lift and how these can be avoided. The demonstration will focus on aspects such as operator behaviour and training, rescue planning, inspection and maintenance, site safety, and supervisor training, to ensure all those working with aerial lifts plan for safety from the ground before work starts.

IPS: Stand 200

Part of the IAPS Group, IPS will highlight its replacement parts service. Now celebrating the 10th anniversary of its Parts Management System, it has been enhanced to suit rental companies of all sizes. For larger companies, the company profiles the fleet to identify which fast-moving parts are critical to that specific business and then supplies the customer with a brochure categorising the parts by manufacturer and type. The company's mobile sales vans regularly visit each location to monitor and replenish stock levels and produces regular reports and removes any surplus parts stock, ensuring that the system also reduces waste and unnecessary expenditure.

IronPlanet: Stand MP37

See Ritchie Bros

Kargo King: Stand 401

See Sterling GP

Kässbohrer: Stand 107

See Shawtrack Services

King Trailers: Stand 418a/b

See Skyking

Latch & Batchelor: Stand MP43

Latch & Batchelor has more than 100 years experience of wire rope manufacturing, and is the official UK and Ireland distributor for Verope special wire ropes. The company has a dedicated crane service centre in Birmingham, where its ropes are measured and end fittings are added. Latch & Batchelor also stocks a wide range of ropes for same day collection or next day delivery.



inspHire will show its Asset Tracker software



Dynamic Hire Management Software Giving businesses a competitive advantage



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Reduce Costs
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Hire, Sales &
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Mobile
Technology

Complete Control
with Real-Time
Hire Data

Cutting-Edge
Product
Development

Support from
Industry
Experts

Equipment from Load Monitoring Systems



Lifting Gear UK: Stand MP44

Moving inside the Marketplace this year, Lifting Gear UK is a complete lifting and handling equipment specialist covering the UK and beyond. The company also has a lifting projects division that specialises in contract lift work and heavy lifting equipment.

Live: Stand 207/8

See A-Plant

Load Monitoring Systems: Stand MP40

Load Monitoring Systems is a British manufacturing and design company specialising in load monitoring products and services, including sales and rental of load cells, winch monitoring systems and crane safety instrumentation. Its products are used in a wide variety of applications and industries worldwide, including marine, subsea, oil and gas, construction, mining and energy. Products on display at Vertikal Days include new

load cell designs.

Magnetek: Stand MP15

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 company's precision wireless controls can be customised for a variety of applications, reducing internal engineering and manufacturing costs, improving time to market and enhancing equipment performance.

Mather + Stuart: Stand 207/8

See A-Plant

MCS Rental Software: Stand MP39

MCS will show its MCS-rm hire management software solution, an operational system used by many powered access, lifting and construction rental companies. This year, MCS will also show its award winning MCS Telematics



MCS Telematics Hub

Hub, which helps rental businesses get the most value out of its OEM telematics and any additional tracker solutions, presenting the data to fleet operators all in one place. Also on display will be RM Mobile, a handheld version of the MCS-rm solution, enabling depot managers to work on the move.

Mentor Training Solutions: Stand MP29

Mentor Training Solutions provides training and associated services for materials handling, access and mobile construction equipment. Courses are approved by IPAF and PASMA and can be delivered on customer sites or at one of its fully equipped training centres. The company can also bring the complete PASMA training solution to its customers nationwide, which includes an experienced PASMA instructor and approved tower systems straight to your door in a PASMA van.

Michelin Tyres: Stand 209

Michelin will focus on its X Crane+ tyre, specifically designed for cool

running due to its casing design and tread compound. The casing design incorporates a different shape in the shoulder area of the tyre that reduces the mass and therefore the amount of heat retained. It is easier to fit than its predecessor having a new design of the bead sole. Additionally it offers excellent fuel efficiency and longevity with resistance to uneven wear experienced on specific axles.

Michelin X Crane+ tyre



Magnetek controls

Vertikal days

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Miller Weblift: Stand MP14

See Unitex UK

Mitas Tyres: Stand 302a

Europe's second largest off-road tyre manufacturer Mitas manufactures a vast range of tyres for all types of construction and industrial machinery including cranes, aerial lifts, wheeled loaders, material handlers, forklifts, as well as industrial/multi-purpose tyres for

other vehicle types and applications. The durable Mitas CR-01 and CR-02 crane tyres will be shown. The CR-01 has an open tread block design which provides excellent traction and allows for easy self-cleaning in off-road applications, while the CR-02 provides low rolling resistance.

Modulift: Stand MP6

Modulift is a supplier of spreader

beams, lifting beams and other below the hook lifting equipment. The company offers both off the shelf and custom lifting solutions and, with over 20 years experience, is ready to advise on rig planning, design custom lifting equipment or manufacturing lifting products to the highest specifications.

My Future My Choice:

Launch Pad Building

My Future My Choice works with school children to show them the possibilities of a career in engineering. For each of the two days, 30 students from local schools are challenged to build a hydraulic arm from cardboard, syringes and tubing. Supported by a team of apprentices from Liebherr, they will compete with their mechanical arm in a lifting challenge. As part of the day the students will visit the trade show and operate a Liebherr crane on display outside the Launch Pad Building.

Myerscough College:

Stand MP8

Myerscough College specialises in the education and training of 20 different subjects including a £4 million engineering facility that delivers a wide range of specialist industry and short course training. It also delivers apprenticeships in Construction Plant Maintenance to crane and access rental companies across the country.

NBB Controls + Components: Stand MP41

New exhibitor NBB Controls + Components makes radio remote controls for crane and lifting

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418A/418B



DONINGTON PARK

16 17 MAY 2018



PocketEvo transmitter
by NBB
Controls +
Components

technology. It will show its new PocketEvo transmitter, which can be used on a number of applications including cranes, hoists, winches, skip loaders and other construction equipment. The company is also in search of new dealers to expand its network.

Nolim: Stand TS2

Nolim is one of the largest European suppliers of outrigger pads and road mats. It will show its range of outrigger pads, slide on outrigger shoes and Containershield, a flexible, lightweight protective sheet for household waste recycling centres and waste processors.

Orlaco: Stand MP38

See Cranesafe

OTR Wheel Engineering:
Stand MP3

OTR will be showing its range of high performance wheels and tyres for aerial lifts and telehandlers, including foam filled assemblies, new tyre designs and tread patterns for both electric and bi-energy machines. It will also promote its aftermarket services and new website with special offers and discounts on scissor lift wheels, its exchange program and foam filled wheel assemblies.

Outriggerpads: Stand TS16

Outriggerpads will display its full range of spreader plates, crane pads and ground mats. The company has significantly expanded its export sales over the past few years and will be announcing an update to its overseas strategy at the show. It will also be demonstrating its new Outriggerpads Calculator, a free



Outriggerpads Calculator



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CTE ZED 23.3 JH

PERFORMANCE:
WORKING HEIGHT 22,6 m
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Nolim
outrigger pads

online tool which helps crane and access platform operators to work out the best spreader plate for each individual task.

Platinum International:
Stand MP28

On display Platinum will have deep cycle batteries from both Platinum International and Trojan Batteries. Whether you own access platform machines or manage an entire fleet, the team will be available to educate and answer any questions you might have on deep cycle batteries and their technologies.

Point of Rental Software:
Stand MP12

Point of Rental Software provides rental software to over 4,800 depots of all sizes and industries, and has offices in the UK, USA, and Australia. Latest product launches include the Syrinx Workshop and Inspection apps. Whether it's a customer repair, service, breakdown, off hire inspection or

Syrinx Workshop app

pre-examination, all information is stored electronically on Workshop App. Inspection App automates the inspection, maintenance and service processes and can be managed via a mobile device. Other software also featured includes Elite, Expert and Essentials.

PSR: Stand 110

See Genie UK



Rayco Wylie's i4500 indicator

Rayco Wylie Systems:
Stand 210a

Rayco Wylie provides wired or wireless custom monitoring systems. Products on display include the i4500 range of indicators, the new i4300 system, wireless wind speed indicators and crane cameras. Also new this year, the company will introduce its application for knuckle boom cranes.

RidgeGear: Stand MP14

See Unitek UK

RIM Wizard: Stand MP13

RIM Wizard is a Finnish company that has developed an innovative product for the heavy equipment market. The Rim Wizard device quickly and efficiently removes most wheels in just a few minutes from mobile cranes, wheel loaders and dump trucks as well as harbour and mining equipment. The device is also perfect for changing sealing rings on the wheel without taking the wheel off. The company also offers the Lil' Wizard for trucks.

Ritchie Bros: Stand MP37

The world's largest equipment auctioneer Ritchie Bros will be on hand to discuss its onsite auctions

with online bidding, plus monthly online auctions and MarketPlace-E from IronPlanet.

RUD: Stand MP18

See Carl Stahl Evita

SafetyLiftinGear: Stand TS18

SafetyLiftinGear is a supplier of lifting equipment, materials handling, load restraint, height safety and confined space products to the UK rental and construction industries. At Vertikal Days it will exhibit a vast range of products

See the Fixator hoist on SafetyLiftinGear's stand



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STAND 313

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An electric boom lift that can complete **FOUR** laps around Donington Park GP Circuit on a single charge. The Snorkel A38E is the only electric boom in its class to travel up to 10 miles (16km)* on fully charged batteries.

This class-leading electric boom lift delivers a significantly longer duty cycle to keep every job on track. Its compact design can manoeuvre indoor and outdoor environments with ease while an up-and-over articulated / telescopic boom provides a superb working envelope. Reaching a working height up to 13.5m with 215kg capacity, the Snorkel A38E is the frontrunner for any job site.



*All image(s) shown are for illustration purposes only. Snorkel makes no warranty, representation, or guarantee regarding the information contained herein or the suitability of its equipment for any particular purpose. The equipment sold hereunder have been subject to limited testing, and any performance specifications and representations are the result of limited testing. It is Buyer's responsibility to independently determine suitability of any equipment, and to test and verify claims.



Vertical
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DONINGTON PARK

SEE THE SNORKEL A38E
AT VERTIKAL DAYS

snorkel
UK

STAND 114/115

snorkel
www.snorkellifts.com

including chain slings, Boscaro crane forks and the brand new Fixator hoist.

Sanctuary Zone: Stand 402
See *Aerial and Handling Services*

Shawtrack Services:
Stand 107

Shawtrack will show bespoke built beavertail bodies for transporting equipment and powered access machinery. The company is also a supplier for Kässbohrer low bed trailers, ranging from 48 to 64 tonnes.

Shield Batteries: Stand MP26
Shield Batteries is the UK distributor for Crown Batteries, one of the leading international deep cycle battery manufacturers, which are widely used as original equipment by aerial lift manufacturers. Shield offers a competitive replacement service for fleet owners.



The CR-220 from Crown Batteries

SMIE: Stand MP38
See *Cranesafe*



Sortimo Van Racking Solutions: Stand TS7

Sortimo is a leader in van racking conversions with over 40 years experience, and offers a comprehensive range of vehicle installations and storage solutions. It offers complete project management for customers from design to delivery of the vehicle, and can install anything that is required to be fitted inside, outside or underneath a vehicle. Sortimo is the only van racking company that crash test loaded racking systems up to 880kg, exceeding the European standard 25 fold.

SpanSet: Stand TS13
SpanSet designs, manufactures, supplies and provides training



Sortimo van conversions



for work at height, lifting and load control. Be sure to see its evacuation demonstration for aerial work platforms. Alongside this it will also show its lightweight and compact Magnum X roundslings with capacities now up to 300 tonnes, the updated range of SupraPlus roundslings and NoCut sleeving for synthetic slings. The

Exoset range of grade 100 lifting points and the Grabba lifting bag will also be shown, along with its range of working at height products, including full-body harnesses and lanyards, and load control equipment.

Sterling GP: Stand 401
Sterling GP supplies rigid plant bodies to the access hire and



The new Kargo King from Sterling GP

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AERIAL PLATFORM IN THE HINOWA RANGE

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May 16th & 17th 2018
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16,50 m

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17 m

Max rated
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Gives access below the machine
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350kg

3 operators



TELESCOPIC JIB

This special feature, which is unique in the 28m telescopic platform market, gives the operator more options. For example, during operations that involve negative positioning (working behind a wall, guardrail, etc.)

BASKET

Two different basket load capacities available on this machine depending on the working envelope required offer increased versatility in work environments.

STRUCTURE

This pivoting structure allows rapid movement and a balance that is different to most, making the machine lighter. Its precision and rod end dampening when stopping movement give the operator greater comfort.

TURRET

The TJ range is equipped as standard with continuous rotation.

Vertical
days

SEE US ON STAND 213

THE MANITOU ACCESS RANGE

To find out more contact your local Manitou dealer www.manitou.com

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equipment rental industry. Clients include Nationwide Platforms and AFI Uplift, and it is an approved supplier for the Access Alliance and recently the Access Link. At Vertikal Days, it will show its popular beavertail body, Step-Frame low loader, and there will be a demonstration of the new concept Kargo King body, a low profile roll-on roll-off body based on a DAF 12T Chassis.

Straightpoint: Stand MP5

Straightpoint manufactures load monitoring products to the lifting industry. Its wireless load cells measure tension and compression forces and are used to monitor loads, prevent overloads, measure forces and weigh items so as to ensure safe lifting operations. New for 2018 are its bluetooth load cells, which connect to a free app on your Android or iOS phone to view and store data from your lift on site.

Syrinx: Stand MP12

See *Point of Rental Software*

Tackle Store: Stand TS18

See *SafetyLiftinGear*

Tecnomagnete: Stand MP18

See *Carl Stahl Evita*

Teletrac Navman: Stand MP32

New exhibitor Teletrac Navman provides location-based technology and services for managing mobile assets. The company's asset management platform Qtanium Connect collates data from OEM telematics units into one portal, which also integrates with fleet



management platform Director. Together, they provide a single window for an entire fleet, showing real-time asset locations and detailed driver safety analytics with instant video replay to help you monitor driver behaviour as well as measure environmental compliance.

Tensology: Stand MP7

New to Vertikal Days, Tensology carries out crane rope inspections and examinations using experienced technicians and state of the art equipment. In response to the change in the standard ISO 4309:2017 to include Magnetic Rope Testing as a tool for identifying defects and assessing the in-service condition of steel wire ropes on all types of cranes, Tensology will be launching the next generation of MRT equipment, including the Intros



MH6-26 from Intron Plus, which is designed for use on crane ropes.

Thermoil: Stand 200

See *IPS*

TireSocks: Stand MP49

See *EuroGate International*

Top Service: Stand MP17

Credit information provider specialist Top Service will highlight its credit information and debt recovery services, which are specifically tailored to the construction industry. Stop by the stand to ask about debt recovery, pre-litigation, credit information and other services relating to credit control.

Torquer: Stand MP21

Torquer has developed the new Halo, a simple, low-tech, low-cost solution to provide remote controlled horizontal orientation of crane loads. Personnel can stay at a safe distance from the load during positioning. The first pre-production Halo units have undergone extensive and successful field trials, and at Vertikal Days the company will demonstrate a 1/5 size working model of the production design unit for use in the construction sector. Torquer aims to move to full production of the Halo towards the second half of this year.



The Intros MH6-26 will be on Tensology's stand



Torquer's new Halo prototype

THE NEW AK 52
Vertikal Days: 16. - 17.05.18, booth 124

HIGH LIGHT



The new AK 52

With a maximum payload of 12 tons and a boom length of 52 metres (opt. 55 metres with boom extension), the AK 52 is the most powerful aluminium-steel mobile crane in the 26 tons truck class. It lifts 1,000 kg up to 30 m with a reach of 34 m and can also be converted to an access platform with a payload of up to 600 kg using the new large man basket.

Thanks to its compact design and the small slewing radius, its state-of-the-art hybrid telescopic boom with enclosed design and the fully radio-controlled telescopic jib of 14 m the AK 52 is very adaptable to tight spaces.

Towergate Insurance:

Stand MP4

Towergate specialises in the powered access, crane and general equipment sectors, providing bespoke insurance and risk management services. It insures a large number of mobile crane rental companies and is a CPA and IPAF member.

Trackunit UK: Stand MP42

Trackunit claims to be one of the world's largest providers of access control, immobilisation and tracking solutions for the construction equipment industry. With more than 230,000 live systems, many of Europe's major equipment rental companies rely on Trackunit for their access control and tracking needs. The company will be showing its new Dual ID Keypad (RFID + PIN-code) access control system which is IP69-rated, as well as the GO and ON smartphone apps.

Tractel: Stand MP18

See Carl Stahl Evita

Trojan Batteries: Stand MP28

See Platinum International

TVH: Stand 304

On its stand TVH will show its technical training courses. In the future, TVH Academy will be supporting IPAF on technical training courses carried out by training partner F-TEC. It will also show its demo mini scissor lift on both its and IPAF's stand. TVH offers a full range of spare parts including joysticks, printed circuit boards, non-marking wheels, switches, sensors, and much more. It also will introduce its latest spare parts recycle facility. Don't forget to bring



Safety harnesses from Unitex

your business card and take part in its raffle.

Unitex UK: Stand MP14

This year there will be new harness accessories on display including waist, shoulder and leg pads from RidgeGear, enabling the user to upgrade most harnesses providing superior comfort whilst working. Unitex will also show the next phase of Glow harness - Super Glow - a glow in the dark harness which helps the user to be seen in the worst working conditions. There will also be a display of the new RidgeGear bag range which includes rope and rescue bags, kit bags and backpacks. Various lanyards can be seen as well as an array of round and flat slings manufactured by Miller Weblift, plus Ultralift round slings made from Dyneema, the

world's strongest fibre.

Universal Crane Mats:

Stand TS3

Universal Crane Mats, the supplier of outrigger mats and spreader systems for cranes and other heavy equipment, will exhibit a range of specialist load spreading products, including the UniMat Modular Aluminium System, the UniMat HDPE Sleeper System, the UniMat HDPE Pads, available round or square, and the UniMat Wheel Levelling/Packing System.

Verope: Stand MP43

See Latch & Batchelor

Vertikal Press: Marketplace

International specialist publisher and provider of information on the lifting industry, the company is responsible

for Cranes & Access and Kran & Bühne magazines, the online news service and information database Vertikal.net and is also the organiser of Vertikal Days and other events.



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Better than expected

Yet again the Intermat show in Paris looked to have been the unfortunate casualty of yet another transport strike in France which affected getting around the capital on the first few days. Despite this the exhibition was reasonably well attended and most exhibitors happy with the quality of visitors if not the quantity.

Because several of the major manufacturers had decided not to attend, the range of some equipment was generally a bit disappointing. Apart from a few tower crane manufacturers mobile cranes were thin on the ground. Access equipment fared better with a good turnout from the van and truck mounts - a strong sector in France - together with a reasonable showing of scissors and booms.

However it was telehandlers that stole the show with apart from JCB and JLG almost all the other manufacturers were present. Most stands had new and interesting products to show with a few global launches and European firsts. Here we have a pictorial roundup with more details on the new machines to be covered in Cranes & Access at a later date.



Bronto showed a 90m S 90 HLA-X sold to Locnacelle - its second sale in France



Cormidi uses its tracked chassis access attachment resulting in the K11 with 11 metres working height and 130kg capacity



The LCMG stand - see them at Vertikal Days



Canadian manufacturer Fraco was showing its new lighter weight FMC-3 mast lift and outside had its SCH-220 tower crane elevator



Locatelli replaced its most popular 45 tonne model with the new 52.47 which completes the renewal of all of its range - watch out for a new 35 tonne City crane with details this summer



Mantall showed its articulated boom for the first time



The 11m Cormidi KB11 tracked platform



Snorkel and Acces Industrie Sales agree distribution in France (L-R) Enrique Garcia Delgado, Snorkel regional sales director, Eric Lacombe, finance director Acces Indus



The Dana hybrid-electric boom with Spicer axle and electric wheel drive



The 'pre project' not so compact, compact 3.2t/6.85m Haulotte HTL 3207 measures 2.26m wide and 2.33m high



Liebherr's first European showing of the 90 tonne LRT 1090-2.1 RT crane



The Bobcat TL30.70



Manitou celebrated 60 years and featured its first fork lift - the MC 5 - manufactured in 1958

Socage launched the 74.5m truck mounted 75TJJ, the 18S spider lift and 3.5 tonne 18T telescopic truck mount.



ELS launched its new 10.2m VM10-J mast boom with 3.15m outreach, 200kg capacity, 990mm width and weighing 2,600kg



Intermat had lots of tower crane elevators including this Geda



Lithium powered Multitel SMX250E



As well as showing its new 30T spider lift, Platform Basket revealed details of the 43.2 metre, 300kg capacity 43T with telescopic jib. The dual power prototype should be ready by July



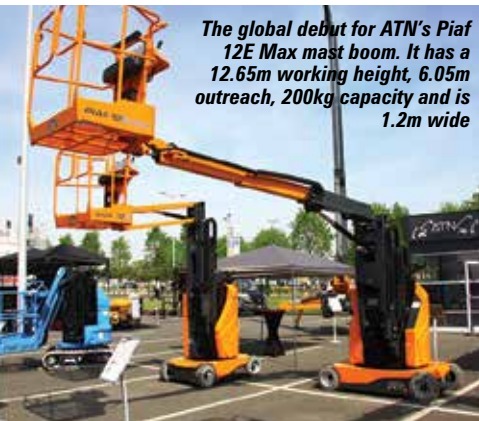
Based on a Thwaites dumper this 15.4m MDC Bi-energy road rail platform uses an Airo boom



The 2,500kg Jekko JF40 has 8.1m lift height, 6.8m reach and options include a 600kg winch, electric power pack and remote control



A very busy Klubb stand included the new Mercedes K26 on a X Class chassis, the zero emission K20 e-NV200 and a K20 'smallest van mount' on a Renault chassis



The global debut for ATN's Pfaf 12E Max mast boom. It has a 12.65m working height, 6.05m outreach, 200kg capacity and is 1.2m wide



Haulotte launched its 'all-electric' HA20 LE



The Power Towers stand was tucked away in Hall 5B but still busy



The latest 70 tonne Sennebogen 673E telescopic crawler crane



Horykong showed two battery electric carry-deck cranes the G4500 and G9000 available as the ZEE crane in the Americas



Ruthmann launched its 90 metre Steiger T900 HF truck mounted platform



Raimondi's new 18 tonne LR330 luffing jib crane with triangular jib design



Liebherr showed its eight tonne 172 EC-B 8 Litronic flat top crane, updated with a longer 62.5 metre jib and 1,800kg jib tip capacity



Haulotte showed these two low level prototypes - a push around and a self propelled



*A Skyjack
Accessoryzers pipe holder*



Goldhofer's Modular ADDrive



*The Unic Cranes
stand with the tracked Eco295*



*New inclined outrigger
pads from Lodax*



*Per Torp and Martin
Sloth of Time Versalift*



The Maeda stand



*Tim Burnhope of JCB caught with Amilcar
Merlo - the start of something Roto for JCB*



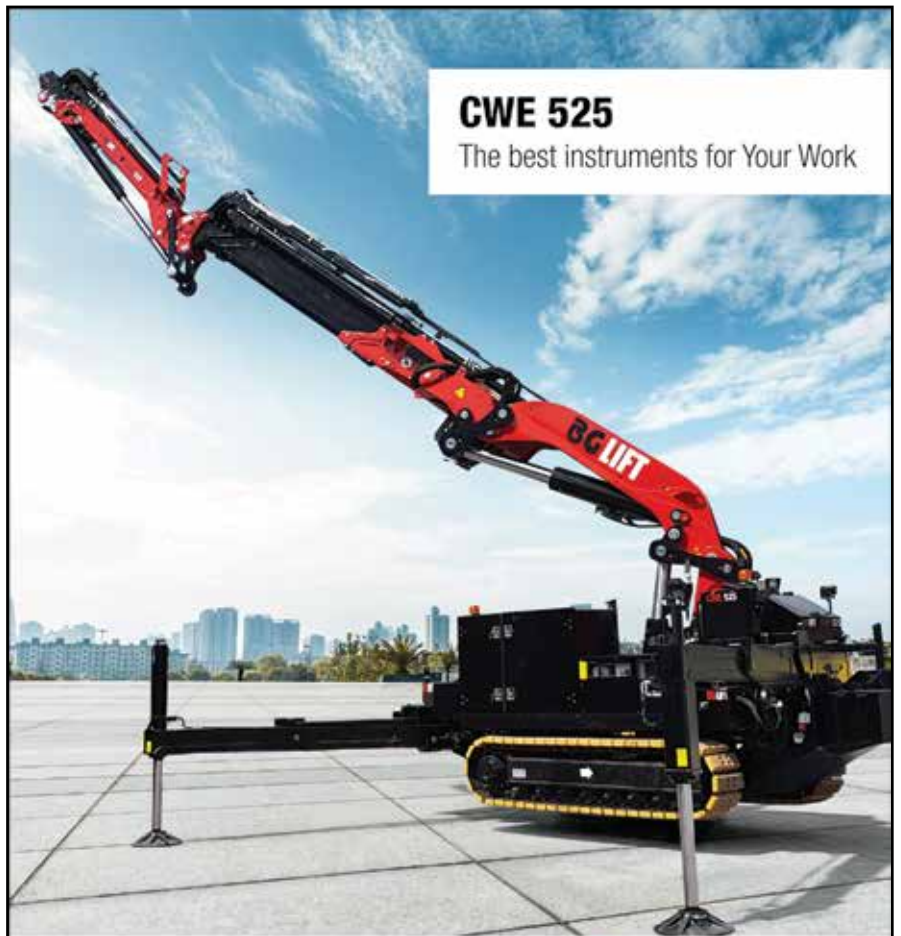
*Largest of the new Merlo Panoramic
telehandlers - the 9.8 metre-12 tonne
P120.10HM*



*The new aluminium 20m Klaas Theo 20 and the
K1000 SX truck mounts - the K1000 SX has a
maximum tip height of 49.5m, 41m with 350kg
capacity and a six tonne maximum*



*Merlo's new pipe
carrier attachment*



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Multitel showed off its new 76 metre truck mount which has been sold to Avallon based Pierre Corberon



The first time in France was the PK135.002 Tec 7 from Palfinger



Airo showed its new 14 metre X14 RTE scissor with 400kg capacity even on its 1.5m extension



Manitou's new 180 ATJ with stage V engine



The 500kg basket on the 74.5 metre Socage 75TJJ



Part of the Genie stand



Liebherr was showing off its new range of telehandlers with this fully featured T41-7S in French colours

The Hinova Lightlift 33.17 Performance IIS with 16.5m outreach at a height of 17m and unrestricted platform capacity of 230kg and 180 degree jib articulation



The eight tonne capacity, 25 metre Magni RTH 8.25



The prototype Haulotte Painter Kit on a Compact 14 scissor



Comet platforms were to be found on the Imer stand



Masakazu Usami, the recently appointed managing director of Kobelco cranes



Merlo launched 10 new telehandlers and three new attachments at the show



Dana was showing off this hybrid-electric boom - based on a JLG M600JP



The 2,500kg capacity Jekko JML25 tracked loader



Palfinger had its new 21 metre P 210 AJTK spider on the stand as well as its latest P 370 KS truck mount



Farasin's new 2.6 tonne/6 metre 6.26 Classic with stage IV final engine



Hiab was showing off its new lithium powered ePTO crane for working indoors or unsociable hours



One of two new Dieci telehandlers is this Icarus 50.18, the other is the Pegasus 50.26



This Kobelco CKE900G was handed over to the UK's Crane & Plant Hire



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BT charged £93,000 for putting public at risk

British Telecom (BT) has been fined £90,000 plus costs of £3,394 by Transport for London for putting the public at risk during street works at Bishopsgate, London, UK in August last year. The company failed to properly sign and guard the work area and also used the wrong traffic management methods. Despite repeated demands by Transport for London, BT also failed to take actions to improve the situation.

Transport for London director of network management Glynn Barton said: "We have prosecuted BT for streetworks offences 47 times since 2010 and they still continue to breach the rules. We are working with utility companies, including BT, to ensure that roadworks are carried out safely in the future, with minimal disruption to road users."

CIS moves to bigger premises

Crane Industry Services (CIS) has relocated to a larger training centre in Carrollton, Georgia, USA. The 826 square metre facility features multiple training rooms, an NCCER testing centre, a simulation room, land for crane training and two warehouses for hands-on training. Previously the 'Centered on Safety Training Center' was located on the West Georgia Technical College campus.

Chief executive Debbie Dickinson said: "Our partnership with West Georgia Technical College continues, but this new facility allows us the space to now offer skills training in welding, electrical, millwright and carpentry, as well as rigging and crane operation."



The new CIS training centre

Engineer hit for £165,000 for fall

An aircraft engineering company based at London Stansted Airport, UK has been fined £160,000 plus costs of £5,492.90 after two men suffered broken bones when the platforms they were working on were knocked over. The two men were carrying out checks to each side of the tail of an aircraft in June 2015, when another employee accidentally closed the wrong circuit breaker, opening the plane's airbrake, knocking over both platforms. The men fell from three and 4.5 metres. One suffered injuries to his pelvis, back, ribs, elbow and lung, whilst the second suffered a broken wrist and a chipped a bone on his spine.

HSE inspector Tania van Rixtel said: "Our investigation found the incident could have been avoided had adequate monitoring been taking place. Aircraft maintenance companies are reminded that not all risks are covered by the Aircraft Maintenance Manual and additional measures need to be introduced."

Ladder fall costs £851,000

H.P.A.S, trading as Safestyle UK, has been fined £850,000 plus costs of £1,083 after a window installer fell three metres from an unsecured ladder, breaking his knee cap. The accident happened last year in Doncaster, South Yorkshire, when the man was attempting to install a bedroom window on the first floor of a property.

HSE inspector Stuart Whitesmith said: "This incident could easily have been prevented had the company implemented reasonably practicable precautions. Such precautions include having effective and enforced safe systems of work, whereby windows are installed internally where possible, or by using suitable access solutions which provide edge protection, and having a formal system in place to ensure works are appropriately supervised."

Manitowoc opens Brazilian training centre

Manitowoc has opened a new Crane Care training centre in Santana de Parnaíba, São Paulo, Brazil. The new centre is equipped with modern simulators, helping technicians to practice a wide range of actions on the different operational systems found in crane models in use in South and Central America, such as EPIC, Canbus and Manitowoc's own Crane Control System (CCS). Sessions are available in Portuguese, Spanish and English.

Training manager Keith Opperman said: "Since it is not possible to bring the simulators to our customers' facilities, we have to use cranes provided by them on local training classes. But it is not an ideal situation because the owners have to take a crane off the job for use in the training programme, and they lose money for every day that the cranes are not working. The new training centre eliminates this cost while removing the risk of damage to the cranes."

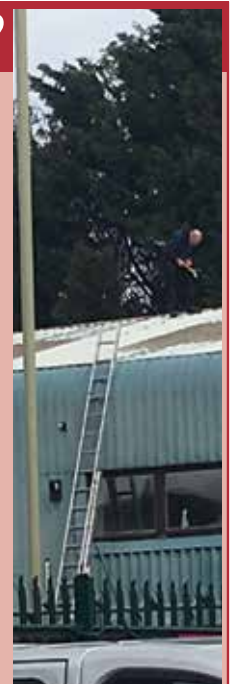
Vice president of sales for South America Cristian Galaz added: "This new training centre facilitates the logistics to train more people across the region, São Paulo, provides much easier access than Passo Fundo, south of Brazil, where the former training centre used to be located."



Training taking place at the new centre

Who trained him then?

Spotted in Ringwood, Dorset, UK, a man working on the roof of a building with no attempt at fall protection, even though the building is next door to an access rental company! In addition, the ladder placement provides further risk.





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Powered access safety begins with good planning

IPAF has launched a new safety campaign, which made its debut at Intermat in late April. The new campaign highlights the fact that falls from height are still the main cause of deaths in the workplace. The EU Temporary Work at Height Directive 2001/45/EC, which has certainly helped saved lives, states: "Work at height may expose workers to particularly severe risks to their health and safety, notably to the risks of falls from a height and... fatal accidents."

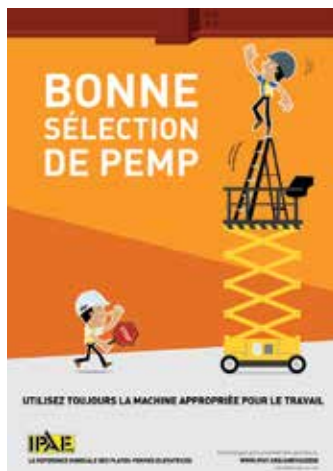
Aerial work platforms are specifically designed to safely conduct temporary work at height and have been recognised as such by safety bodies across Europe. Working safely at height using such lifts is underpinned by good planning, along with trained and properly supervised operators using the correct machine for the job.

Operators and managers conducting work at height using lifts should plan ahead for safety, carry out proper risk assessments, choose the correct equipment for the job, conduct site and machinery inspections, use trained and familiarised operators under proper supervision and implement adequate segregation from other equipment, machinery and traffic.

IPAF technical & safety director Andrew Delahunt said: "From IPAF's accident data analysis, we've identified four key accident causes that result in falls from the platform. These accidents can be prevented by proper planning and safely managing the use of aerial work platforms. We are highlighting these factors so managers and operators know the risks and know their responsibilities."

Some of the key points of guidance to consider include:

Risky behaviour: Operator



behaviour when using platforms is usually a positive factor in terms of safety, but risky behaviour can be a contributing cause of falls from the platform. Common risky behaviours include overreaching or leaning out of the platform, climbing on the guardrails, tying gates open or overriding safety controls. To discourage such behaviours, managers must ensure all operators are properly trained, that the right machine is selected for the job, and work at height is adequately supervised.

Exiting at height: To avoid falls from height while using platforms, operators should only enter or exit the work platform at access gates at ground level or on the chassis for



truck mounted lifts. An exception is during a rescue operation, where it may be necessary to exit the platform and descend by other means. This type of rescue should only be conducted where other methods cannot safely evacuate the platform occupants. Prior to use, make sure to have a formal emergency rescue plan that documents the proposed rescue methods, and rank them in a hierarchy with the safest option first.

Setting up near other machinery or vehicles: Aerial work platforms are frequently positioned in proximity to other moving equipment or alongside vehicular traffic. A collision between a platform and a crane, other equipment or a road vehicle can be catastrophic. Therefore, always restrict movement of machinery and/or traffic near the platform. Ensure job site planning and risk assessments are conducted prior to positioning the lift, and implement adequate exclusion zones and a vehicle traffic management plan.

Mechanical failure: To avoid accidents through mechanical failure and to ensure work platforms are maintained in safe working order - which is the owner's legal obligation - all owners should implement a rigorous

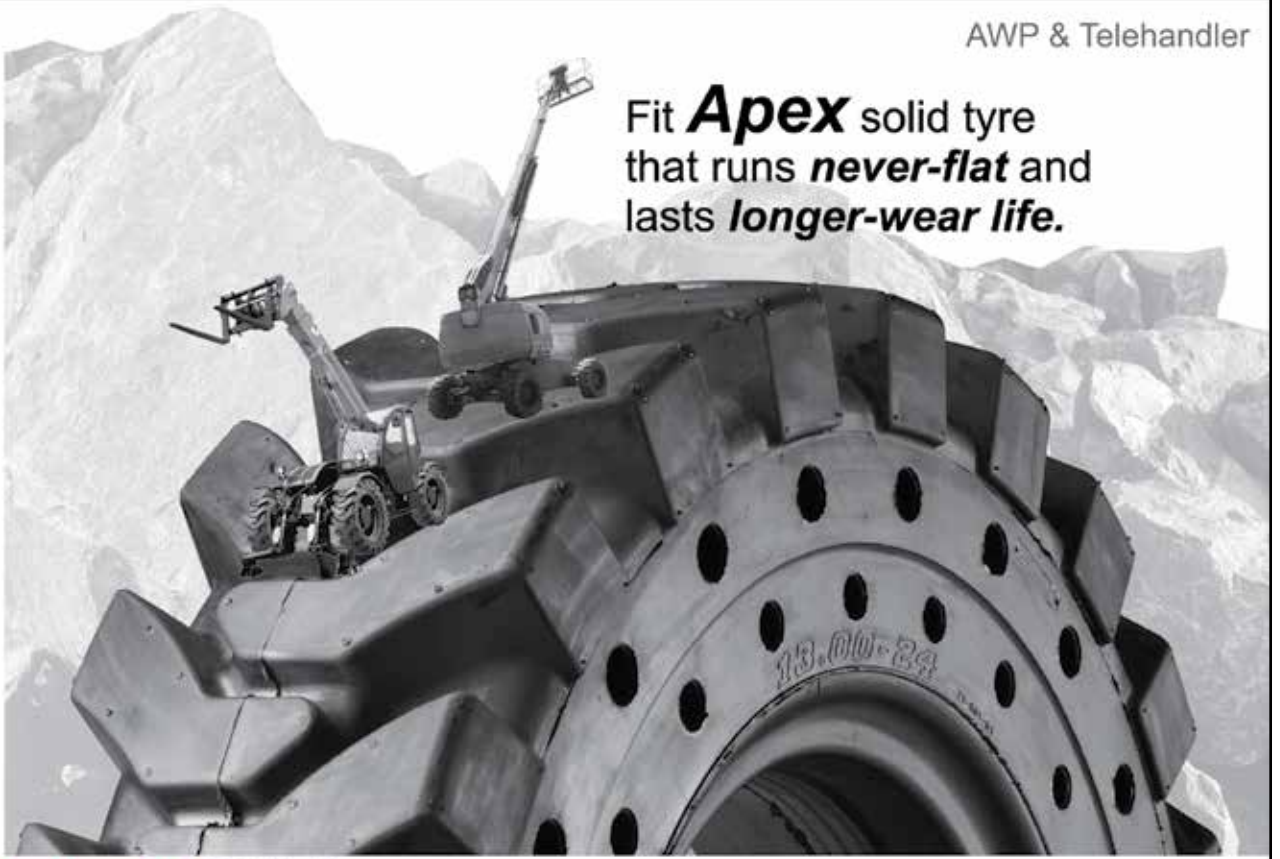
inspection, maintenance and thorough examination regime. The period and scope of the inspections are stipulated by government legislation and by the manufacturer and is listed in the operator's manual. The inspection schedule includes: Pre-use inspection, periodic inspections at three or six months and annual inspection which must be conducted by a competent person with adequate training and experience on that type of work platform.

To support IPAF's new safety campaign a new online spreader pad calculator has been launched at pads.ipaf.org. IPAF also offers Andy Access safety posters that can be used to deliver quick and simple safety talks on sites or in breakrooms and to further support this is also developing a series of Toolbox Talks to help get these important messages across.



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ALLMI milestones - Operators' Forum

As part of marking ALLMI's 40th Anniversary, we continue to report on the Association's numerous milestones from the last four decades, this time by taking a look at the establishment of the Operators' Forum in 2006.

Having only ever granted membership to manufacturers, service companies and ancillary equipment suppliers since its formation in 1978, 12 years ago ALLMI opened its doors to fleet owners by founding the Operators' Forum division. The move has proved to be a great success, playing a significant role in the growth and development of the association, and further enabling it to raise standards throughout the lorry loader industry.

ALLMI chief executive, Tom Wakefield, said: "In 2005, we received interest from several fleet owners regarding membership, and this coincided with discussions we were already having concerning ways in which we could expand the association and be even more effective in achieving our core objectives. The solution was obvious and in February 2006 we held the inaugural meeting of the Operators' Forum. Since then, the Forum has gone from strength to strength and it now comprises approximately 50 percent of the membership."

Steve Frazer-Brown, health & safety Director for David Watson Transport, has been the chairman of the Forum since its inception, and added: "ALLMI has always done an excellent job of improving industry practices, but incorporating fleet owners into the membership enhanced its ability to take this further, facilitating greater interchange of ideas and opinions, and as such the identification of important issues affecting safety."

Recent years have seen particularly impressive increases in Forum membership, and membership growth on the whole shows no signs of slowing, with the 2017/18 results confirming another excellent period in terms of manufacturers/service companies and fleet owners joining. Demand has also continued into the new fiscal year, with a record number of membership applications pending.

Wakefield continues "It's increasingly the case that companies operating outside of the membership are seeing the significant benefits of joining ALLMI. Membership adds a great deal of

credibility to any business; the stringent joining process, as well as ongoing auditing, guidance and support, means that the ALLMI logo really does signify quality, safety and standards, whether it's in

relation to crane installations, service and repair, or the running of lorry loader fleets. We would encourage any company involved with lorry loaders to contact us in order to learn more about being part of the association, as we remain focused on continued progress and expansion, to ensure that best practice and the highest standards reach every part of the industry."



ALLMI is celebrating 40 years of serving the loader crane industry



Increased demand for instructor accreditation

The importance and credibility of ALLMI's training accreditation continues to be proven, with more than a 50 percent increase in new instructor registrations during its latest financial year.

ALLMI technical manager, Keith Silvester said: "These figures reflect the record training levels we experienced last year for our lorry loader operator and slinger/signaller courses, as demand for the ALLMI card continues to grow. Instructor course candidates come to us qualified and experienced in instructional techniques, lorry loader operation and slinging/signalling. We then build upon that with a comprehensive training programme that increases their expertise and adapts their knowledge to the delivery of the ALLMI scheme. This course is followed with the provision of a range of quality training aids and material, as well as ongoing technical support, auditing and CPD, all of which results in the highest calibre of instructor who is equipped to deliver the UK's leading lorry loader scheme."

For more information visit www.allmi.com



Audit team expansion

Industry professional, Leo Taylor has joined ALLMI as an auditor, he said: "I have been an ALLMI instructor for nearly 10 days, delivering training to a wide variety of end users and industry sectors. I have obviously undergone many audits of my own during that time and have always seen the value in the association operating such a comprehensive monitoring process. I am, therefore, delighted to have successfully completed the Auditor Development Programme, and to be part of a team providing support and guidance to ALLMI's expanding instructor network."



New auditor, Leo Taylor

ALLMI App - phase two development

In addition to the redevelopment of its website, 2018 will also see the Association further enhance its digital services with improvements to the ALLMI App. Developments being discussed include new tools facilitating pre-operational checks, product familiarisation, test load calculation and safety system requirements. Please contact ALLMI, should you have any ideas or suggestions in relation to the App.

ALLMI is adding further Calculator Tools to its App



For details of ALLMI standards, guidance documents and training, visit: www.allmi.com



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Updated guidance on Lifting Operations With Excavators

The UK Strategic Forum Plant Safety Group has published an updated safety guidance document entitled 'Lifting Operations With 180° and 360° Excavators.' The group has revised, expanded and updated the original guidance which was published in 2008. Additions are so widespread that the guidance has increased from seven to 72 pages.

The group is chaired by the CPA, with permanent representation and support from the Health & Safety Executive, contractors, rental companies, manufacturers and training organisations. The latest guidance thoroughly sets out the precautions and procedures that should be taken into account when planning and carrying out lifting operations with excavators and backhoe loaders. The precautions and procedures specified in the publication should enable work to be carried out safely and in accordance with the law.

A core message within the guidance is that in terms of selection of lifting equipment, excavators are primarily designed for excavating and handling loose materials rather than lifting suspended loads. The document advocates that an excavator should not be the first or only choice for lifting, even if it is already on site, is quicker and maybe more cost effective than using more appropriate lifting equipment that has been specifically designed for lifting operations such as cranes and telehandlers.

The guidance details that the use of excavators introduces a number of additional risks when carrying out lifting operations which are not present with conventional cranes, such as:

- Fast articulation and slew movements

- The need to operate the boom and dipper arm simultaneously to keep the load vertical when lifting or placing loads.
- Standard excavator rated capacity warning devices generally only warn, do not prevent the handling of loads in excess of the rated capacity and can be muted by the operator.
- The rated capacity varies if lifting over the front and rear or side-on to the machine and if features such as blades, stabilisers and axle locks are engaged or not.
- That some appointed persons may not have the experience of planning and supervising lifting operations with excavators.

Topics covered within the guidance include planning and supervision requirements, machine selection, roles and responsibilities, specific issues and maintenance and inspections. A key part of the guidance is a flowchart that introduces a hierarchy and sequence to the planning process. The section on specific issues includes information on the factors that affect stability, ground conditions and specific issues when using 180 degree excavators, fork attachments and tilt-rotators during lifting operations.

The Good Practice Guide can be downloaded free of charge from www.cpa.uk.net/sfsgpublications



C&A

CPA

New Lifting Technician Trailblazer Apprenticeship now available

A new Lifting Technician Trailblazer Apprenticeship is now available and ready for delivery, following final approval from the Institute of Apprenticeships. The new apprenticeship framework has been devised by an employer-led Trailblazer working group and is supported by the Construction Plant-hire Association (CPA).

Designed for those who will operate a mobile, crawler or tower crane and undertake slinging and signalling duties, the new apprenticeship replaces the existing Construction Civil Engineering Plant Operator (Cranes Lifting) Framework Apprenticeship which will eventually be phased out.

The Trailblazer working group was headed by Laing O'Rourke and included Ainscough and Baldwins Crane Hire, BAM Nuttall, Balfour Beatty, Bronzeshield Lifting, Emerson Cranes, Skanska, Select, Sarens and Liebherr, as well as the CPA and CITB. The group was formed in 2014 to devise the standards and assessment plan for the apprenticeship, with the aim of integrating both crane operating skills with slinging/signalling skills to provide both the apprentice and employer with a greater scope of skills and to fully understand the lifting operations sector, preparing a pathway for the apprentice to become a crane supervisor and ultimately an appointed person.

The new Level 2 Lifting Technician Apprenticeship has a total training period of up to 24 months including work experience. The core training period has been derived as a minimum of 300 hours and as with all Trailblazer Apprenticeships, a formal training qualification does not form part of the apprenticeship. It is the End Point Assessment which determines competency, however NVQ's in Plant Operations (Cranes and Specialist Lifting) and Controlling Lifting Operations (Slinger/Signaller) need to be achieved before the end assessment can be undertaken.

This apprenticeship has been placed within the Education and Skills Funding Agency's funding band 11 allowing apprenticeship levy paying employers to spend up to £15,000 for the training and assessment of the apprentice. Non-levy payers can receive up to 90 percent of the maximum. Further information can be found at www.gov.uk/government/publications/apprenticeship-funding-bands.

The CPA is hosting the training and assessment documentation and a training syllabus, training record portfolio and EPA Portfolio which can be downloaded free of charge from the CPA website www.cpa.uk.net/trailblazer-downloads



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PASMA raises height safety awareness at NEC

PASMA exhibited at The Health & Safety Event at the NEC, Birmingham last month, as part of the Access Industry Forum (AIF), with the aim of bringing visitors up to date on all aspects of tower use and safety using brand new guidance leaflets. In addition, Jason Carlton - PASMA's head of strategic engagement and communications - participated in the Working at Height & Preventing Falls Safety Dialogue sessions over the three days of the event.



Jason Carlton of PASMA participated in the popular dialogue sessions

The sessions discussed:

- Procedures typically used when working at height
- PPE and other equipment used to prevent injuries from falls
- Establishing rescue plans for those working at height
- Training for work at height

Tim Else, director organiser of The Health & Safety Event said: "We were very happy to feature PASMA and the Access Industry Forum (AIF) at this year's show. They gave visitors access to an unrivalled range of height safety expertise under one roof."



The AIF comprises 11 of the leading trade associations and federations involved in promoting safe work at height and good practice. They are: ATLAS, BSIF, EPF, FASET, IPAF, IRATA, the Ladder Association, the NASC, PASMA, SAEMA and WAHSA.

Tower Safety Week back for 2018

PASMA has announced the return of Tower Safety Week, which will take place on 11-16 November. Now in its sixth year, the campaign will again promote tower safety and good practice internationally via a series of events and activities designed to keep people safe.

PASMA chairman Gillian Rutter said: "PASMA Tower Safety Week is a unique opportunity for PASMA members to share their knowledge and expertise - not only with tower users, but with anyone responsible for specifying towers and overseeing their safe use in the workplace."

More information on the campaign's activities and how PASMA members and the safety community can get involved will be released shortly.



An event at last year's Tower Safety Week

Accessing the inaccessible - PASMA Hire & Assembly

Over the coming months PASMA will be making those involved in work at height aware of the potential of advanced tower builds that conform to standard BS1139-6 and are assembled by PASMA Hire & Assembly members.

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All PASMA Hire & Assembly members have trained specialists who have completed the 'Towers for Professional Riggers', a five day intensive course with daily written exams and practical assessments. Completing this demanding course has equipped their teams with the expertise required to build large and advanced towers to specification.

For more information, visit www.pasma.co.uk/hireassembly

PASMA Working at Height Theatre returns to South Africa

The PASMA Working at Height Theatre returns to A-OSH 2018 - Africa's leading occupational safety & health trade exhibition - on 22-24 May at the Gallagher Convention Centre. The event provides a dedicated height safety hub for delegates to access expert speakers and live demonstrations.

Organised by PASMA, the Theatre operates in collaboration with safety organisations, and the tower industry in South Africa, to promote safety at height, including the use of mobile access towers - portable and versatile products used for accessing height in a variety of industries.

PASMA's head of international development, Sarah Nunn said: "A-OSH provides a unique opportunity for us to reach the South African tower industry, safety professionals and those involved at work at height."



PASMA Working at Height Theatre



Don't forget to book your place at PASMA Conference 2018, which takes place at the Aviator Hotel, Farnborough, on 12-13 July 2018. Visit: www.pasma.co.uk



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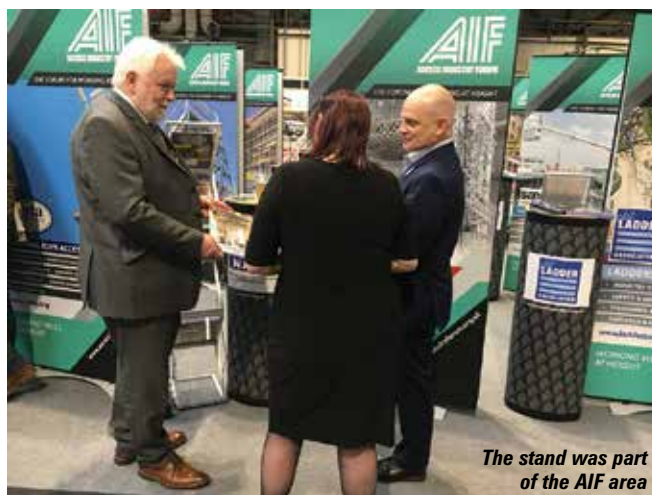


The NASC promoted the importance of working safely at height at the Health & Safety Event, held at the NEC, Birmingham, UK, in April. The confederation exhibited alongside fellow Access Industry Forum members, giving advice and guidance to delegates throughout the three day event. Stephen Allen-Tidy, NASC health and safety advisor and Ken Johnson, NASC technical Advisor, manned the NASC stand, while Johnson and fellow NASC representative Simon Hughes also contributed to daily Working at Height & Preventing Falls Question & Answer sessions.

Allen-Tidy said: "It was really useful to engage with a wide range of health and safety professionals from across the construction industry, providing them with scaffolding and access safety and technical advice and answering any questions they may have. The show also gave us the opportunity to come together with the other bodies that form the Access Industry Forum to promote the wider message of ensuring working at height safely is always a primary consideration."



The NASC stand at the Health & Safety Event



The stand was part of the AIF area

New marketing manager

The NASC has strengthened its communications capabilities through the appointment of Simon Robinson as the new in-house marketing manager. Robinson brings a wealth of construction marketing and copywriting and journalistic expertise to the NASC team, having previously worked as a senior account manager at full service marketing and communications agency Fabrick, along with similar roles at a number of other PR and marketing agencies. He also has publication experience, having started out as a news reporter, before taking up news and businesses editor positions at a regional newspaper. In his new role he will work to strengthen ties and increase engagement with both NASC members and the wider construction industry.



Simon Robinson

NASC managing director Robin James added: "I am pleased to welcome Simon to the team. Through his appointment we will be able to engage more closely with our 250 plus members and communicate more effectively with the wider scaffolding and construction industries. This will enable us to increase understanding and appreciation of a number of key messages, including the various benefits available directly to businesses through attaining NASC membership or indirectly through utilising the services of NASC members, as well as our ongoing commitment to raising and maintaining the highest standards for access and scaffolding throughout the UK and beyond."

Supporting No Falls Foundation

The NASC is supporting the No Falls Foundation, a new charity dedicated exclusively to the work at height sector. The charity, launched at the Health & Safety Event, aims to have a positive influence on all those involved in work at height through the provision of education, research and support.

It has been backed by the 11 member organisations of the Access Industry Forum, which includes the NASC. Ken Johnson, NASC technical advisor, said: "We are delighted to offer our support to the No Fall Foundation, a charity that mirrors our long-standing commitment to increasing safety in the construction industry."

For more information visit www.nofallsfoundation.org



NASC

NASC

Established in 1945 NASC is the national trade body for access and scaffolding in the UK comprising over 230 leading contractors and scaffolding manufacturers. www.nasc.org.uk

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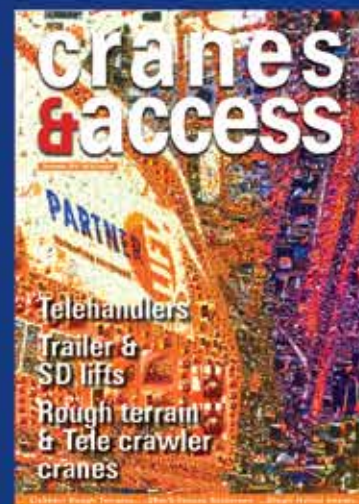
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Manitowoc MLC300

The Manitowoc MLC300 crawler crane made its debut at the ConExpo Exhibition in 2014, its main feature being the Variable Position Counterweight (VPC). This 1:50 scale model is made by Towsleys.

It comes in a big box and a comprehensive assembly guide for the model is included which has an annotated parts list and step by step instructions covering the largest configuration of the crane. Tools are provided to aid the task, and a number of hours is required to complete the model.

A highpoint of the model is the detailing. The tracks are metal, and excellent, and the frames are detailed and include fold out lugs and access steps. The operator's cab tilts and is fully detailed with windscreen wipers, grab handles and a mirror, and at the rear various signs are fully replicated with tiny writing. Handrails and platforms are metal and very good, although some are loose fitting.

The VPC-Max 'superlift' counterweight arrangement is very good with nicely modelled energy chains. It works well, and is a major plus on the model as on the real crane, as it is possible to position the counterweight to keep the model in reasonable balance whether it has a load or not.

The lattice boom, back mast and jib sections of the crane are nice castings with excellent geometry. They are nearly all metal and include useable lifting eyes, mesh walkways and ladders as appropriate. The connections are made with tiny black nuts and bolts, and the straps are very thin metal.

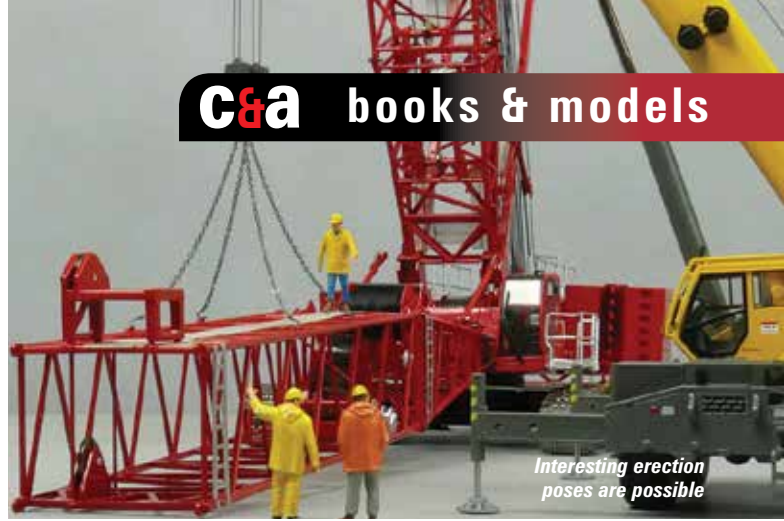
Three hooks are supplied. The main block is a large piece with a swivelling double hook. The second hook is a smaller block, and the whip line has a single metal piece with rotating hook.

To operate the model a key is provided for the winches. When the key is pushed in, the drum presses against a spring and away from a brake surface such that it turns freely when the tool is turned.

This is another excellent large Manitowoc model with great detailing and very good functionality. A big plus point is the flexibility of the model with the use of bolted connections throughout, allowing many display possibilities. It costs €550 from the Manitowoc Europe web shop which is good value given the size and quality.

To read the full review of this model visit www.cranesetc.co.uk

Cranes Etc Model Rating	
Packaging (max 10)	9
Detail (max 30)	25
Features (max 20)	19
Quality (max 25)	22
Price (max 15)	11
Overall (max 100)	86%



Interesting erection poses are possible



Variable Position Counterweight



High detail - graphics behind the cab



Lifting a bridge segment



Very large model when fully assembled

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Is it time to go metric?

The following letters were received in response to last month's editorial asking why self-propelled boom lifts and scissors are often referred to by their platform height in feet, even though all of Europe uses the metric system.

Hi Mark,

One of the other big differences, is that the European manufacturers may be metric, but they also usually refer to Working Height.

We, being the USA side, always prefer to refer to the Platform Height- in feet of course. I do not know too many two metre tall men in the EU, and I believe the EU platform height is two metres below the working height.

More confusion for everyone...

regards

Alastair Robertson

Universal Equipment Inc

Dear Editor,

This is one of those things that seem to make no sense but are steeped in history, OK not ancient history, but tradition. Why do we still talk of computers and television sizes in inches? Look at a machine brochure even from a European manufacturer and while it's all in metric when it comes to mention of an in cab display it's seven inches or something!

You have to think it will change sometime but who is going to be brave enough to make the first move?

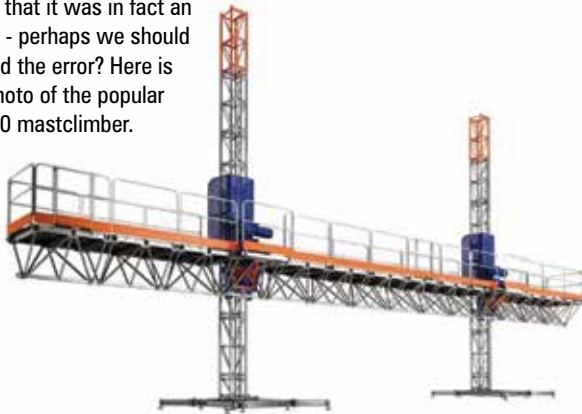
Keep up the good work

Ton Smit

Alimak photo correction

In the last issue we inadvertently used an incorrect photo of Alimak Hek's new MC 450 mastclimber that we had been sent tagged as the MC 450.

We are told that it was in fact an older model - perhaps we should have spotted the error? Here is an actual photo of the popular new MC 450 mastclimber.



Dear Sir

Just wanted to agree with the letter from Winston Smith in Cranes & Access page 70, whoever he is he was bang on! I could not have put it better myself.

This letter actually referred to a few points in a bit of a rant regarding IPAF, and we are not sure which one this anonymous emailer was highlighting/supporting. The award of lifetime achievement to Dan Kaplan, or the holding of the Summit in America? Or both? I guess they are not going to be happy that the summit is to be held in Dubai next year?

Not 70 its 90!

In the last issue we published the preview to Intermat and for some reason we published the wrong information regarding Bronto's display. We said that the company would have an S70XR on the stand. We were wrong it did in fact show a 90 metre 90 HLA X, the second unit sold to French rental company Locnacelle. Well what can we say? Mistakes do happen and at least we were correct in that a large truck mount would be highlighted. At least the error ensured that we did get it right in the Vertikal Guide to Intermat. We apologise for the error.

Editor



Locnacelle's second 90 metre Bronto the official handover (L-R) Jean-Marie Faust and Eric Dame of Scania, Alain Lescureux, Mme Lescureux, Laurence Tabillon and Mr Tabillon of Locnacelle with Dominique Allemand of Bronto Skylift

City Boy launch at Vertikal Days

Also in the last issue we published incorrect information about Spierings' new City Boy SK487-AT3 which will have its first public showing at Vertikal Days. We included specification details of the 48 metre SK597-AT3, whereas it should have been the SK487 three axle hybrid mobile tower crane which of course has a lift capacity of seven tonnes at 11.96 metres radius and a 40 metre jib, with a jib tip capacity of 1,700kg. Apologies for the mix up.

Stolen crane

Dear Leigh

It was nice to read that Hovago's stolen crane was recovered, and hopefully they caught the bastards that tried to get away with stealing it. Having experienced thefts like this myself steam rises from my head when I hear of people doing this. I do not think the police take these crimes seriously enough. When they do catch these criminals, they are hardly given any punishment and just do it again. But you can be sure that if they hurt themselves while on your premises robbing you, they would probably sue you for putting them at risk!

I agree with your plan that the industry needs a common programme, a sort of database to catch these people anytime they try and sell the equipment they stole or to order spare parts etc. I also think we can do more with smart tracking systems that cannot be disabled or reached easily. I think you need to play your role in this by promoting this idea through your magazine or website. Maybe Vertikal should host such a thing.

Over to you

Stefan Zaleski

This letter concerns the theft of a 300 tonne Liebherr LTM1300-6.2 from Hovago's yard in Dordrecht, the Netherlands. It was recovered months later in the Antwerp area of Belgium. You can read the full story in the letters section of the last issue of Cranes & Access or on Vertikal.net.

Chris Walters 1949 - 2018

We have received the sad news in April that UK crane veteran Chris Walters had passed away suddenly on Thursday April 19th. We understand that he died after experiencing a serious heart issue. A well-liked and genuine crane rental professional, he began his crane career when he joined Stanley Davies Crane Hire in 1976, which became part of Hewden Stuart.



He progressed through the organisation to become operations manager he left the company in 1983 but returned in 1993 as operations manager Heavy Cranes Division based in Castleford. He moved again after Finning acquired Hewden and began making changes going to Ainscough Crane Hire for a while. He then re-joined Hewden in 2000 as crane manager at its Corus, Scunthorpe location becoming quality manager for the company in 2003. In 2009 he moved to Baldwins Crane Hire as depot supervisor, followed by a short spell at Mammoet before settling into an operations role at tower crane company HTC as accessories manager for Reco hoists, a job he held until his death.

One ex-colleague said of him: "I knew Chris from my time as depot manager at Hewden's Willenhall depot in Birmingham, and I always found him to be helpful, supportive and he was always willing to lend an ear when required."

Other comments posted on Vertikal.net include:

"So sad to hear this. I can still remember exactly what his voice sounded like, even now. I had the pleasure of working and dealing with Chris when I was a young man learning the business at Hewden Stuart. Such a lovely, lovely guy. My sincere condolences to his family."

"Probably not many crane manufacturers around now who knew and appreciated Chris. Sad News. Met him recently ironically at a funeral. We had a good relationship and he was always a pleasure to speak with. He had a great technical knowledge of cranes and transport and always on top of his game. I wish his family strength to get through this sad and difficult time."

"I am deeply shocked at the sad passing of one of the industries nice guys."

"We always used to deal with Chris, when we had our first 200 ton Demag crane on many a Hewden Tower crane cross-hire. Chris was always a pleasure to talk to on the hire desk. For all at NMT especially the ex-Hewden guys, you will be greatly missed. Thoughts are with your family."

His funeral is being held on Tuesday 15th May at 1pm at St Cuthberts Church, Ackworth, WF7 7EJ. Afterwards will be at the Brown Cow Pub next door to the church. Donations are requested in lieu of flowers to the British Heart Foundation

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Access Equipment Manufacturers

The Access Platform Company	www.accessplatformcompany.co.uk
Ascendant Access	www.ascendantaccess.com
Aichi	www.aichi-corp.jp
AIRO	www.airo.com
Alimak Hek	www.alimakhek.com
ATN	www.atnplatforms.com
Barin	www.barin.it
Bil jax	www.biljax.com
Böcker Maschinenwerke	www.boecker.de
Bravi	www.bravisol.com
Bronto Skylift	www.brontoskylift.com
CMC	www.cmclift.com
Co.Me.T	www.officinemet.it
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-Dechentreiter	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
Isoli	www.isoli.com
Iteco	www.imergroup.com
JCB	www.jcb.com
JLG	www.jlgeurope.com
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.dk
Palazzani Industrie	www.palazzani.it
Palfinger Platforms	www.palfinger-platforms.com
Planet Platforms	www.planetplatforms.co.uk
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	www.sinoboom.com
Skyjack	www.skyjack.com
Skyking	www.skyking.co.uk
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 distributors (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
Planet Platforms	www.planetplatforms.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 Hek	www.alimakhek.com
Brogan Group	www.brogangroup.com
CLM Construction Supplies	www.clm-supplies.com
GB Access	www.gbaccess.co.uk
GEDA-Dechentreiter	www.geda.de
Klaas	www.utility-equipment.com
SGB	www.sgb.co.uk
LTC Hoists Division	www.ltchoists.co.uk
Safi	www.safi.it

Specialist Scaffolding

Advance Scaffolding (SW)	www.advancedscaffoldingltd.co.uk
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SGB

www.sgb.co.uk

Platform Rental

1st Access Rentals	www.1staccessrentals.co.uk
2 Cousins Access Limited	www.2cousins.co.uk
AA Access (Specialists)	www.aaaccess.co.uk
ABBA Plant Hire	www.abbaplantire.co.uk
Access Link	www.accesslink.biz
Access Platforms Direct	www.accessplatformsdirect.co.uk
Acrolift	www.acrolift.co.uk
Active Rentals Scotland	www.activerentals.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
AFI- Uplift	www.afi-uplift.co.uk
A-Plant	www.aplant.com
ASR Access Platforms	www.access-platforms.com
ATP	www.atphire.com
Bluelift	www.bluelift.ie
Drammen Liftutleie AS	www.drammenlift.no
Elevation	www.elevation.net
ES Access Platforms	www.esaccess.co.uk
Facelift	www.facelift.co.uk
Fraco	www.fraco.co.uk
GT Access	www.gtaccess.co.uk
Height for Hire	www.heightforhire.com
High Access Hire	www.highaccesshire.co.uk
Higher access	www.higheraccess.co.uk
Hi-reach	www.hi-reach.co.uk
Hird	www.hird.co.uk
Horizon Platforms	www.horizonplatforms.co.uk
JMS Powered Access	www.jms.co.uk
Lifterz	www.lifterz.co.uk
Loxam Access	www.loxam-access.co.uk
LTC Powered Access	www.ltcpoweredaccess.co.uk
LTC	www.ltcaccess.co.uk
Mainline Access	www.mainline-access.co.uk
Manlift Hire	www.manlift.ie
Mayes Access Platform Services	www.mapsplatforms.co.uk
Mr Plant Hire	www.mrplantire.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
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
Universal Platforms	www.universalplatforms.com
Warren Access	www.warrenaccess.co.uk
Wilson Access	www.wilsonaccess.co.uk

Notified Body

Powered Access Certification	www.pac.uk.com
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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
Height for Hire	www.heightforhire.com
Hird	www.hird.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-piatt.it
Liftright Access	www.liftrightaccess.com
Manlift Sales	www.manlift.ie
Mech-Serv (GB)	www.mech-serv.co.uk
Mr Plant Hire	www.mrplantire.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
Planet Platforms	www.planetplatforms.co.uk
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.gtlift.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 Heftruck Service	www.vhsblad.nl

Telehandler Rental

ABBA	www.abbaplantire.co.uk
GT Lifting Solutions	www.gtliftingltd.co.uk
JMS Powered Access	www.jms.co.uk
Mr Plant Hire	www.mrplantire.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
Galizia	www.galiziagrupo.com
Grove	www.groveworldwide.com
HCME (Hitachi-Sumitomo)	www.nrcplant.co.uk
Jekko Minicrane	www.jekko.it
JMG	www.jmgcranes.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	www.mantiscranes.ie
Ormig	www.ormig.co.uk
Potain	www.manitowoccranes.com
Raimondi	www.raimondi.com
Sany	www.sany.com.cn
Sennebogen	www.sennebogen.com
Spierings	www.spieringskranen.nl
Tadano	www.tadanofaun.de
Tadano Japan	www.tadano.com
Terex-Demag	www.terex-cranes.com
Unic Cranes	www.unic-cranes.co.uk
Valla	www.valla-cranes.co.uk
Wolffkran	www.wolffkran.de
Zoomlion	www.zoomlioncranes.co.uk

Lorry/Truck Loader Cranes

Atlas Cranes UK	www.atlasgmbh.com
Effer	www.effer.it
Hiab	www.hiab.com
Palfinger	www.palfinger.com
Penny Hydraulics	www.pennyhydraulics.com
PM Cranes	www.pm-group.eu

New & Used Cranes

AGD Equipment	www.agd-equipment.co.uk
Cotec Oy	www.crate.fi
Cranes4Cranes	www.cranes4cranes.com
Cranes UK	www.cranesuk.net
Crowland Cranes	www.crowlandcranes.co.uk
Delden Cranes	www.deldencranes.co.uk
Electrogen Int	www.electrogen.ie
IMC Cranes	www.imc-cranes.com
Hird	www.hird.co.uk
Jones-Iron Fairy	www.jonesironfairy.co.uk
Kobelco	www.kobelco-cranes.com
Leader	www.leader-piatt.it
London Tower Cranes	www.londontowercranes.co.uk
Maeda	www.maedaminicranes.co.uk
Mantis Cranes	www.mantiscranes.co.uk
M. Stemick	www.stemick-krane.de
NRC	www.nrcplant.co.uk
P.V. Adrighem BV	www.adrighem.com
Rivertek Services	www.rivertekservices.com
Terex Demag	www.terex-cranes.com
Transloader Services	www.transloaderservices.co.uk
Utility Equipment	www.utility-equipment.com

Heavy Lifting Equipment

Lifting Gear UK	www.lifting-equipment.co.uk
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Furniture Hoists

Böcker	www.boecker.de
The Furniture Hoist Co	www.furniturehoists.co.uk
Utility Equipment	www.utility-equipment.com

Crane Hire

AB2000	www.ab2000.co.uk
ABBA	www.abbaplanthire.co.uk
Ainscough	www.ainscough.co.uk
Berry Cranes	www.berrycranes.co.uk
Bob Francis Crane Hirex	www.bobfranciscranehire.co.uk
Bryn Thomas Cranes	www.brynthomascranes.com
Cork Crane Hire (Liverpool)	www.corkcranehire.com
Crane Hire Ltd	www.cranehireltd.com
City Lifting	www.citylifting.co.uk
Delden Cranes	www.deldencranes.co.uk
Emerson	www.emersoncranes.co.uk
J&M Crane Hire	www.jandmcranehire.co.uk
John Sutch Cranes	www.johnsutchcranes.co.uk
King Lifting	www.kinglifting.co.uk
Ladybird tower crane hire	www.ladybirdcranehire.co.uk
London Tower Cranes	www.londontowercranes.co.uk
Mantis Cranes	www.mantiscranes.co.uk
McNally crane hire	www.cranehire-ireland.com
NRC	www.nrcplant.co.uk
Port Services Heavy Crane division	www.portservices.co.uk

Mini Crane Hire

A Mini Crane Hire	www.aminicranehire.co.uk
Easy Reach Scotland	www.easyreachscotland.co.uk
Emerson	www.emersoncranes.co.uk
GGR	www.unic-cranes.co.uk
Height for Hire	www.heightforhire.com

Hire Maeda	www.maedaminicranes.co.uk
JT Mini Crane Hire	www.jtminicranes.co.uk
Lift Limited	www.liftminicranehire.co.uk
NRC	www.nrcplant.co.uk
Hird	www.hird.co.uk

Self Erecting Tower Cranes

Bryn Thomas Cranes	www.brynthomascranes.com
City Lifting	www.citylifting.co.uk
Electrogen Int	www.electrogen.ie
John Sutch Cranes	www.johnsutchcranes.co.uk
King Lifting	www.kinglifting.co.uk
Ladybird tower	www.ladybirdcranehire.co.uk

Tower Cranes

London Tower Cranes	www.londontowercranes.co.uk
Electrogen Int	www.electrogen.ie

Heavy Lift Management

DWLS	www.dwls.co.uk
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Heavy Lift Planning & Risk Analysis

DWLS	www.dwls.com
HLC Consulting	www.hliconsulting.com

Ancillary Equipment

TMC lifting supplies	www.tmc-lifting.com
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Auction Houses

Ritchie Brothers	www.rbauktion.com
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Battery Suppliers & Manufacturers

Shield Batteries	www.shieldbatteries.co.uk
Trojan Battery	www.trojanbattery.com
Platinum International	www.platinuminternational.com

Load Cells & Load Monitoring Systems

Force Logic UK Ltd	www.force-logic.co.uk
MSL Oilfield Services Ltd	www.msluk.net
PCE Instruments UK Ltd	www.pce-instruments.com

Control Systems

MOBA Automation	www.moba.de
Intercontrol	www.intercontrol.de

Generator Sales & Rental

Electrogen Int	www.electrogen.ie
JMS Powered Access	www.jms.co.uk

Insurance

Specialist Insurance	www.cover1.com
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Online Technical Help

Crane Tools	www.cranetools.com
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Outrigger Pads, Mats & Roadways

Alimats	www.craneriggermats.co.uk
GTP Europe	www.gtp-europe.com
Marwood	www.marwoodgroup.co.uk
Mat & Timber Services	www.sarumhardwood.co.uk
Nolim	www.nolim.nl
Outriggerpads	www.outriggerpads.co.uk
Timbermat	www.timbermat.co.uk
TMC lifting supplies	www.tmc-lifting.com
Universal Crane Mats	www.universal-crane-mats.com
Welex Group	www.welexgroup.com

Component Suppliers

Cone Drive	www.conedrive.com
PCE Instruments UK Ltd	www.pce-instruments.com
UE Components	www.ue-components.com

Parts & Service Suppliers

Aerial & Handling Services	www.aerialandhandlingservices.com
Alfa Access Services	www.alfa-access-services.com
Amerparts	www.amerparts.net
Caunton - Access	www.caunton-access.com
Cone Drive	www.conedrive.com
Crowland Cranes	www.crowlandcranes.co.uk
C-Tech Industries	www.ctech-ind.com
Davis Access Platforms	www.davisaccess.co.uk
Donghua Limited	www.donghua.co.uk
Electrogen Int	www.electrogen.ie
IPS	www.ipspartsonline.com
JLG	www.jlgeurope.com
Lift-Manager	www.lift-manager.com
TVH - Group Thermote & Vanhalst	www.tvh.be
UE Components	www.ue-components.com
Unified Parts	www.unifiedparts.com
Vertimac	www.vertimac.com
Workplatform	www.workplatformltd.co.uk

Innovations

Aerial & Handling Services Ltd	www.aerialandhandlingservices.com
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Recruitment

Vertikal.Net	www.vertikal.net/en/recruitment
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Rental Management Software

Higher Concept Software	www.higherconcept.co.uk
Inspire	www.inspire.com
MCS Rental Software	www.mcs.co.uk

Replacement Filters

Plant Filters	www.plantfilters.co.uk
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Safety Equipment

AGS	www.ags-btp.fr
Airtek equipment	www.airteksafety.com
Heaton Trestle Handrail System	www.heatonproducts.co.uk
Heaton Scaffold Towers	www.heatonproducts.co.uk
Load Systems UK Ltd	www.loadsystems.com

Marwood	www.marwoodgroup.co.uk
SMIE	www.smie.com

Software

Higher Concept	www.higherconcept.co.uk
Inspire	www.inspire.com
Matusch GmbH	www.matusch.de
MCS Rental Software	www.mcs.co.uk

Structural Repairs

Avezaat Cranes	www.avezaat.com
Crowland Cranes	www.crowlandcranes.co.uk
John Taylor Crane Services	www.jtcranes.co.uk

Training Associations & Networks

ALLMI	www.allmi.com
AWPT	www.awpt.org
IPAF	www.ipaf.org
NASC	www.nasc.org.uk
Pasma	www.pasma.co.uk

Training Centres & Trainers

Access Platforms Direct	www.accessplatformsdirect.co.uk
Access Platform Sales (APS)	www.iapsgroup.com
Astra Access	www.astratraining.co.uk
Boss Training	www.bosstraining.co.uk
Active Safety	www.activereals.co.uk
Advanced Access Platforms	www.accessplatformsuk.com
Ainscough	www.ainscoughtraining.co.uk
AJ Access	www.accessplatforms.com
Approved Safety	www.approvedsafetytraining.com
Training -Ca	
CMT	www.c-m-t.co.uk
Elevation	www.elevation.net
Emerson	www.emersoncranes.com/training
GT Access	www.gtaccess.co.uk
IAPS	www.iapsgroup.com
Lift-Manager	www.lift-manager.com
LTC Training Services	www.ltctraining.com
Mentor Training Solutions	www.mentortrainingsolutions.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/Training
SGB	www.sgb.co.uk
Smart Platform Rentals	www.smartplatforms.com
Transloader Services	www.transloaderservices.co.uk
TVH Group	www.tvh.com
UTN	www.utntraining.co.uk
Versalift Training Direct	www.versalift.co.uk/training
Warren	www.warrenaccesstraining.co.uk/courses/
Access Training	
Workplatform	www.workplatformltd.co.uk/customer-support/operator-training

Safety Training

Atlas Cranes UK	www.atlasgmbh.com
Avon Crane	www.avoncrane.co.uk
Brogan Group	www.brogangroup.com
Davis Access	www.davisaccess.co.uk
Emerson	www.emersontrainingservices.co.uk
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Training Services

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HCS	www.hydrauliccraneservices.co.uk
Hewden Training	www.hewden.co.uk/training
Hi-Reach	www.hi-reach.co.uk
Hiab	www.hiab.com
Horizon Platforms	www.ipaftrainingcourses.co.uk
JLG Training	www.jlgeurope.com
L&B Transport	www.lbtransport.co.uk
Liebherr Training (UK)	www.lyteladders.co.uk
Lifting Equipment Training	www.letltd.co.uk
Loxam	www.loxam-access.co.uk
Lyte	www.lyteladders.co.uk
Mainline Access	www.mainline-access.co.uk
Mentor Training	www.mentortraining.co.uk
Mr Plant Hire	www.mrplantire.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk
Norfolk Training Services	www.norfolktraining.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Southern Crane & Access	www.southerncranes.co.uk
TH White	www.thwhite.co.uk
Terex Atlas (UK) Ltd.	www.atlascranes.co.uk
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Wire Rope & Cable

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Vehicle Mounted

Make	Working Height	Year
Bronto S46XDT	46m	2005
Bronto S52XDT	52m	2006-2008
12.5m Vans 3.5t Cat	12.5m	2012-2013
15m Vans 5.2t Cat	15m	2010
16m Trucks 3.5t Cat	16m	2003-2013
17m Trucks 3.5t Cat	17m	2007-2009
22m Trucks 7.5t Cat	22m	2006-2010
29m Trucks 7.5t Cat	29m	2008

Self Propelled Booms

Make	Working Height	Year
Haulotte H21TX	21m	2006
Haulotte H23TPX	23m	2006
Haulotte H25TPX	25m	2006-2008
Nifty HR12NDE	12.2m	2007
Nifty HR12NDE	12.2m	2010
Nifty HR12NDE	12.2m	2012
Nifty HR15NDE	15.6m	2007
Nifty HR15NDE	15.6m	2012
Nifty HR21D 4x4	21.2m	2007
Haulotte Star 10	10m	2012

Scissor Lifts

Make	Working Height	Year
Skyjack SJ3219	7.8m	2009
Skyjack SJ3219	7.8m	2010
Skyjack SJ3219	7.8m	2011
Skyjack SJ3226	9.9m	2009
Skyjack SJ3226	9.9m	2010
Skyjack SJ3226	9.9m	2011
Skyjack SJ4632	11.8m	2010
Skyjack SJ4632	11.8m	2012
Skyjack SJ8831	11.4m	2006
Skyjack SJ8831	11.4m	2007
Skyjack SJ9250	17.3m	2008
Haulotte Op 8	7.8m	2006
Haulotte C14	13.8m	2017
Genie GS1932	7.6m	2017
Genie GS2632	9.8m	2017

Low Level

Skyjack SJ12	5.6m	2012
Skyjack SJ16	6.7m	2012
Snorkel TM12	5.8m	2012
Power Tower Nano	4.5m	2017
Power Tower	5.1m	2017

Trailer Mounted & Narrow Access

Nifty 90ME	9.5m	2013
Nifty 120TPET	12.2m	2015
Denka DL22N	22m	2005
Palazzani 20/22	20-22m	1996

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May 2018

<p>V23895</p>  <p>Haulotte Optimum 8 € 4.250</p> <p>2008 ■ 462 Hrs</p> <p>Electric ■ 7,76 Mtr.</p>	<p>V22790</p>  <p>JLG 2030ES € 4.250</p> <p>2005 ■ 338 Hrs</p> <p>Electric ■ 8,1 Mtr.</p>	<p>V24773</p>  <p>Genie GS2032 € 4.250</p> <p>2006 ■ 437 Hrs</p> <p>Electric ■ 8,1 Mtr.</p>	<p>V23578</p>  <p>Haulotte Compact 10 € 3.250</p> <p>2001 ■ 919 Hrs</p> <p>Electric ■ 10,14 Mtr.</p>	<p>V23954</p>  <p>JLG 4069LE € 13.950</p> <p>2008 ■ 418 Hrs</p> <p>Electric ■ 14,19 Mtr.</p>
<p>V22506</p>  <p>Genie GS3268RT € 10.950</p> <p>2007 ■ 2728 Hrs</p> <p>Diesel 4x4 ■ 11,75 Mtr.</p>	<p>V21762</p>  <p>Haulotte H125X € 9.500</p> <p>2005 ■ 2588 Hrs</p> <p>Diesel 4x4 ■ 12 Mtr.</p>	<p>V20882</p>  <p>Skyjack SJ9241 € 12.950</p> <p>2008 ■ 1387 Hrs</p> <p>Diesel 4x4 ■ 14,5 Mtr.</p>	<p>V22515</p>  <p>Genie GS4390RT € 18.500</p> <p>2007 ■ 2213 Hrs</p> <p>Diesel 4x4 ■ 15,11 Mtr.</p>	<p>V24582</p>  <p>Skyjack SJ9250 € 10.950</p> <p>2006 ■ 2662 Hrs</p> <p>Diesel 4x4 ■ 17,2 Mtr.</p>
<p>V24874</p>  <p>Genie Z30-20N € 8.950</p> <p>1999 ■ 1426 Hrs</p> <p>Electric ■ 11,14 Mtr.</p>	<p>V22459</p>  <p>Airo SG1000 € 7.950</p> <p>2006 ■ / Hrs</p> <p>Electric ■ 12 Mtr.</p>	<p>V23609</p>  <p>Niftylift HR15NE € 14.950</p> <p>2008 ■ / Hrs</p> <p>Electric ■ 15,6 Mtr.</p>	<p>V22309</p>  <p>Niftylift HR15NDE € 15.950</p> <p>2008 ■ / Hrs</p> <p>Bi-Energy ■ 15,6 Mtr.</p>	<p>V22960</p>  <p>JLG M600JP € 19.500</p> <p>2004 ■ 2768 Hrs</p> <p>Bi-Energy ■ 20,39 Mtr.</p>
<p>V25022</p>  <p>JLG 450AJ € 35.000</p> <p>2015 ■ 601 Hrs</p> <p>Diesel 4x4 ■ 15,72 Mtr.</p>	<p>V24862</p>  <p>Haulotte HA16SPX € 13.950</p> <p>2007 ■ 4048 Hrs</p> <p>Diesel 4x4 ■ 16 Mtr.</p>	<p>V25207</p>  <p>JLG 510AJ € 22.500</p> <p>2009 ■ 2603 Hrs</p> <p>Diesel 4x4 ■ 17,81 Mtr.</p>	<p>V24863</p>  <p>Haulotte HA260PX € 27.500</p> <p>2008 ■ 3996 Hrs</p> <p>Diesel 4x4 ■ 25,6 Mtr.</p>	<p>V22559</p>  <p>Genie Z80-60RT € 33.500</p> <p>2006 ■ 5008 Hrs</p> <p>Diesel 4x4 ■ 26,4 Mtr.</p>
<p>V21816</p>  <p>Haulotte H16TPX € 9.950</p> <p>2006 ■ 1972 Hrs</p> <p>Diesel 4x4 ■ 15,44 Mtr.</p>	<p>V24844</p>  <p>Genie S45 € 14.950</p> <p>2007 ■ 843 Hrs</p> <p>Diesel 4x4 ■ 15,7 Mtr.</p>	<p>V23732</p>  <p>JLG 460SJ € 9.500</p> <p>2001 ■ 6333 Hrs</p> <p>Diesel 4x4 ■ 16,02 Mtr.</p>	<p>V21134</p>  <p>Haulotte H23TPX € 15.950</p> <p>2007 ■ 4545 Hrs</p> <p>Diesel 4x4 ■ 22,6 Mtr.</p>	<p>V19827</p>  <p>JLG 1200SJ € 64.500</p> <p>2008 ■ 4353 Hrs</p> <p>Diesel 4x4 ■ 38,58 Mtr.</p>

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2004



9.75
METRE

500
HOURS

4
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METRE

400
HOURS

8
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METRE

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HOURS

4
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D DIESEL

Skyjack SJ-6832 RT €11500

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12.50
METRE

1500
HOURS

20+
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4WD

D DIESEL

Skyjack SJ-7135 RT €8950

2007



17.07
METRE

2000
HOURS

12
UNITS AVAILABLE

4WD

D DIESEL

Skyjack SJ-9250 RT €15950

2007



15.90
METRE

3000
HOURS

15+
UNITS AVAILABLE

4WD

D DIESEL

Genie Z-45/25 JRT €22500

2005



12.52
METRE

650
HOURS

6
UNITS AVAILABLE

BATTERY

Genie Z-34/22N €11500

2006



20.22
METRE

3000
HOURS

6
UNITS AVAILABLE

4WD

D DIESEL

Genie Z-60/34 JRT €26950

2014



14.00
METRE

400
HOURS

6
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TRACKED

D BATTERY BI-ENERGY

Hinowa 14.70 III S €25950

2005



13.4
METRE

2
UNITS AVAILABLE

BATTERY

Upright AB 38 €11950

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21.97
METRE

3500
HOURS

5
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D DIESEL

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2008



28.00
METRE

4000
HOURS

6
UNITS AVAILABLE

4WD

D DIESEL

JLG 860 SJ €49000

2008



40.00
METRE

4000
HOURS

6
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