

# cranes & access

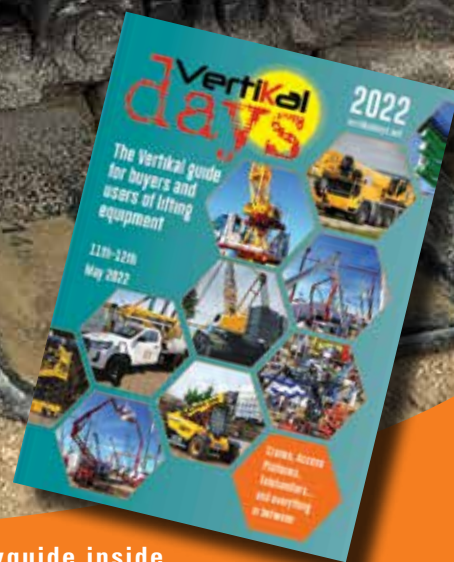
April/May 2022 Vol.24 issue 2

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**ELECTRIC  
CRAWLER  
CRANES**

**BOOM  
LIFTS**

**VERTIKAL  
DAYS SHOWGUIDE**



Vertikal Days Showguide inside

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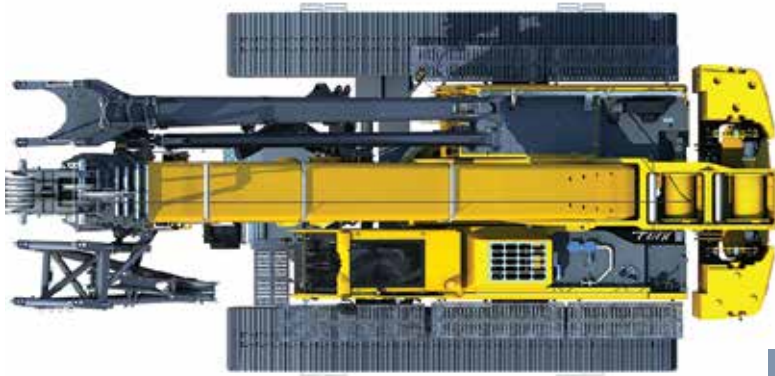
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## VERTIKAL DAYS SHOW GUIDE 37

Vertikal Days is back once again at the Peterborough Show Ground and raring to go with a record number of innovations and new products making their World, European and UK debuts. Our comprehensive guide contains everything you need to know about the show, the exhibitors and the products they plan to showcase.

## HS2 - THE REALITY 95

A sizeable number of modern crawler cranes are helping construct the UK's HS2 high speed railway, Europe's largest construction project. Nick Johnson reports.

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## ON THE COVER

A new 250 tonne Liebherr LR-1250.1 'Unplugged' crawler crane from Select on charge at the HS2 Old Oak Common site in London. An unimaginable sight just few years ago.



**IN THE NEXT ISSUE** Scheduled for June, the next issue of Cranes & Access will include features on Low level access, Telehandlers, All Terrain cranes, Remote controls and a review of the Vertikal Days Show. If you have any contributions or suggestions to make or are interested in advertising in this issue, please contact our editorial or sales teams.



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# COMMENT

## BOOM OR BUST

History has numerous examples of seemingly indomitable companies or national industries fading away as new players move in, all too often the result of arrogance, sense of entitlement and complacency of established players, taking dominant market shares and customers for granted. A classic example is the demise of the British motorcycle industry, at the end of the 1960's. After dominating much of the world market for decades it almost vanished overnight when it failed to respond to the arrival of modern, competent, well-built products from Honda in Japan. A similar fate impacted the domestic US auto industry in the 1970s.

When Chinese companies began building and then exporting aerial work platforms 10 to 15 years ago, their products were understandably viewed as a joke, being cheap and often incompetent copies of established products with poor quality, no backup and no idea of international marketing. You would have been mad to have purchased them at any price.

How times have changed...

Looking at the exhibitors signed up to Vertikal Days, now just a week or two away, it is striking how many of the innovative product launches promised will come from Chinese manufacturers, a totally improbable thought even a couple of years ago. Even more surprising is that many will be high ticket items, such as large electric boom lifts or mega scissor lifts. You might be forgiven for thinking that some western manufacturers have been 'caught on the back foot' and unsure how best to respond.

The speed with which the leading Chinese manufacturers have taken up customer feedback, adapted and made changes is astonishing, leaving some western manufacturers struggling to decide how to respond. Some blame it exclusively on low prices or unfair tactics however buyers are much cannier than that and will not buy a duff product no matter how cheap it is or go along with unethical methods.

When a newcomer attempts to break into a mature affluent market, the 'establishment' can often adopt an 'All is fair in love and war' attitude, lobbying law makers to change the rules of the game or use arcane legal barriers to block the upstarts. However, protectionism rarely works over the long or even medium term and can have unintended consequences such as the 25 percent tariff on steel imports which has certainly harmed some US crane manufacturers.

Those that can adapt to change in a positive and strategically smart manner, without resorting to questionable tactics and alienating their customers, tend to prosper and grow. Those that don't are resigned to history as famous names of the past...

#### 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*

# ALL NEW 2,500 TONNE CRAWLER

Liebherr has announced an all new 2,500 tonne crawler crane, the LR 12500-1.0 and confirmed that the lead customer is Belgian international crane and heavy lift company Sarens.

Although technical details are minimal the new crane introduces a bold new design concept, which the company says will be the basis for a new line up of big Liebherr crawler cranes. The new model fills the gap between the 1,350 tonne LR 11350 and 3,000 tonne LR 13000 and is aimed at meeting growing demand to lift increasingly heavy modules.

A key to high capacities is a wide based lattice boom. The LR 12500 has a completely new superstructure frame and main boom design which have been designed to provide a wide main boom cross section to offer similar stability levels as Liebherr's PowerBoom option, while keeping individual elements compact enough for economical transport and shipping - dubbed the 'HighPerformanceBoom'. The new superstructure frame has a four metre wide front section tapering to a 3.5 metre wide rear end.

The new boom sections are 10 metres in length and incorporate a new mechanism to reduce their overall dimensions for transport. The 'HighPerformanceBoom' has a maximum length of 110 metres but can be extended to 155 metres using sections from the luffing jib, to provide a maximum hook height of around 200 metres using 100 metres of main boom and a 108 metre luffing jib.



# MARCHETTI ELECTRIC CRAWLER CRANES

Marchetti has launched two electric powered versions of its 25 tonne CW25.35 Sherpina telescopic crawler crane - an all-electric battery powered hybrid and a regular diesel crane with an AC mains electric motor.

The all-electric version's hydraulics are powered by a 100kW AC permanent magnet electric motor fed by a large lithium iron phosphate (LiFePO4) battery pack that is said to be good for a full eight hour shift. The crane is also equipped with a small Stage V Perkins diesel which can be used to recharge the batteries when it is not possible or convenient to recharge from an AC mains power outlet.

The second version is a standard machine with Stage V diesel, but it is also equipped with a 400 volt AC, three phase electric motor which can drive the hydraulic pumps in place of the engine and operate the crane when zero emissions or low noise is a requirement.

The Sherpina features a five section 25.5 metre boom with an optional three section 3.6 to 8.1 metre telescopic jib that can offset by up to 40 degrees and also provides a maximum tip height of 35.5 metres.

The new cranes will be official launched at Vertical Days May 11th.



# ALL-ELECTRIC SELF-LEVELLING BOOM

Specialist Spanish aerial lift manufacturer Mecaplus is currently testing a new fully electric - no hydraulics - 50ft articulated 4x4 self-levelling boom lift, the E-SL 17.2. The new machine uses electric powered screw actuators in place of hydraulic cylinders and wheel mounted electric motors for drive. Maximum outreach is 7.5 metres at an up & over height of 7.8 metres, with an unrestricted platform capacity of 230kg.

For more information see page 33 - Self-levelling boom lifts.



# HAULOTTE GOES LOW LEVEL

Haulotte has entered the low level aerial lift market with the launch of seven models with working heights of less than six metres. The line up falls into three main types: the two model 'Move Up' line of push around mast lifts with battery powered lift function, the Move Up 4.6 and Move Up 5.6, have 4.6 and 5.6 metre working heights and a 159kg platform capacity.

The two model 'Swift Up' line of push around scissor lifts, the Swift Up 3.8 and Swift Up 4.5 with working

heights of 3.8 and 4.5 metres and a 240kg capacity. And finally, the three model 'Swift Up SP' range - the Swift Up 4.5 SP, Swift Up 5.0 SP and Swift Up 5.9 SP - with working heights of 4.5, 5.0 and 5.9 metres respectively.

The new models, badged by Haulotte, will initially be available in Europe excluding Russia and the UK - and throughout the Asia Pacific region apart from South Korea, while in South America only the Swift Up SP range will be offered.





*The Potain MCT 805 has an 80m jib with 7.5t tip capacity*

## NEW POTAIN MCT 805

Potain has launched a new high capacity flat top tower crane, the MCT 805, manufactured at its plant in Zhangjiagang, China. Although built to international standards and market requirements, it is primarily aimed at the Asia Pacific region and emerging markets including China and the rest of Asia, Australia and New Zealand, the Middle East, Africa, and South America.

Similar to the current MDT 809 launched at Bauma 2019, the MCT 805 is available in 32 and 40 tonne maximum capacity versions - the M32 and M40 - both of which offer a maximum jib length of 80 metres with a 7.5 tonne jib tip capacity. The new crane has been designed for use with Potain's reinforced K-mast tower with newly developed installation bases, including a new high performance eight metre cross shaped base. Maximum free standing height is 80 metres.

Longest counter jib is 27.3 metres, which provides a 7.5 tonne jib tip capacity at an 80 metre radius. The maximum 32 tonne capacity of the M32 version is available at more than 22 metres while the 40 tonnes on the M40 can be handled at 18.5 metres.

The company says that while it is an 800 tonne/metre crane, it transports and can be erected as easily as 450 tonne/metre cranes and set up twice as fast and with less space than conventional 40 tonne tower cranes. For example, it can be assembled to a 50 metre lifting height and full 80 metre jib in less than three days.



*The counterweight installation*

## NEW GROVE TELECRAWLER

Grove has launched a new 80 tonne telescopic crawler crane, the GHC85 - the eighth model in the Sennebogen-built telescopic crawler line up, and one that does not yet feature in the Sennebogen range.

The GHC85 features a new 42 metre five-section full power boom with a maximum tip height of 59 metres when using the eight to 15 metre bi-fold offsettable swingaway extension with 40 degrees of offset. A three metre heavy duty swingaway extension with 10 degrees offset is also available and stows on the left side of the boom. The crane is rated at 2.5 metres with 10.8 tonnes capacity on the fully extended main boom.

The fully extended track base has an overall width of 5.1 metres with 900mm track pads. The crane can pick & carry its full load chart and operate on slopes of up to four degrees. The maximum superstructure counterweight is 28.3 tonnes with six tonnes of carbody counterweights.

The crane can unload itself from a truck and fully self-assemble using the wireless remote controller. It can be transported in three loads, or four loads if the tracks are carried separately. The all-up weight is 90 tonnes, while overall dimensions are 13.36 long by 3.58 metres wide and 3.1 metres high. Power comes from a Cummins Tier 4 Final, or Tier 3 diesel.



## NEW 100T LIEBHERR LR 1100.1 CRAWLER

Liebherr has released its 100 tonne LR 1100.1 lattice crawler crane which can be configured either with a new heavy weight main boom of up to 62 metres with a capacity of 19.1 tonnes, or a 44 metre boom topped by a fixed jib of 11 to 20 metres with up to 15 degrees of offset. Capacities on the jib range from 20 tonnes on the 11 metre jib to 8.2 tonnes on the 20 metre. It is rated at 3.3 metres and can handle 19.1 tonnes on the 62 metre main boom.

The crane has 29.3 tonnes of superstructure counterweight plus 15.3 tonnes of carbody counterweight. All-up weight with base boom is 94.4 tonnes. Power comes from a 230kW diesel with Eco-Silent Mode with the Automatic Engine Stop Control cutting the engine completely during longer work interruptions. Other features include Liebherr's Gradient Travel Aid which automatically calculates the crane's centre of gravity and warns the operator before the crane moves into an unsafe position while travelling. The cab can be elevated by 2.8 metres for an improved view of the lift.



## ELECTRIC LIEBHERR LTC 1050-3.1

Liebherr has unveiled a plug in hybrid version of its 50 tonne LTC 1050-3.1 City-type All Terrain crane, the LTC 1050-3.1E. The crane features a 72KW electric motor alongside a standard six cylinder diesel engine. The two power units use the same hydraulic pumps, and the operator can switch between diesel and electric power for crane functions.

Once on site, it ideally plugs into a 125 Amp AC mains power supply to fully match the performance of the diesel, but it also operates well enough on a 63 Amp supply. Alternatively, it can be plugged into a standalone remote battery pack. The electric version of the LTC 1050-3.1 features the 36 metre original telematic boom rather than the new shorter cable extended boom. Options include the RemoteDrive system to operate the chassis and elevating cab.



## RAFT OF NEW DINGLIS



Chinese aerial lift manufacturer Dingli has announced nine new self-propelled slab electric lifts, including five 'Hydraulic Oil Free' lifts with working heights of between five and eight metres.

The lifts use electric powered screw type actuators in place of hydraulic cylinders, eliminating the hydraulic system.

The new 'Oil Free' models include:



Platform Height	Model	Working Height	Platform capacity	Type
11.5ft	JCPT0507PA	5.1m	230kg	Scissor
12ft	JCPT0607PA	5.6m	240kg	Scissor
18.5ft	JCPT0708PA	7.6m	230kg	Scissor
19ft	JCPT0807PA	7.8m	230kg	Scissor
16ft	JCPT0807PA	6.7m	200kg	Mast

## HYDRAULIC LIFT ELECTRIC DRIVE MODELS

Dingli has also unveiled a more regular 15ft micro slab electric scissor lift - the JCPT0707DCM - with a working height of 6.5 metres, a platform capacity of 230kg and a 740mm by 1.44 metre platform which extends to two metres with the 600mm roll out deck extension.

The new machine has an overall width of 760mm, overall length of 1.43 metres and a stowed height of 2.05 metres, or 1.68 metres with guardrails folded. Overall weight is 1,150kg. Direct electric drive, four wheel braking, non-marking tyres and automatic active pothole protection are standard.

The new platform joins the 12ft JCPT0607DCM and the 19ft JCPT0708DCM which have similar specifications but weigh 920kg and 1,300kg respectively.



The 15ft JCPT0707DCM



## NO OIL STOCK PICKER

Finally, the company unveiled a 10ft OPT0507 'No Oil' stock picking platform with a box section forward-leaning mast powered by an electric screw actuator in place of the hydraulic cylinder to provide a working height almost five metres.

Platform capacity is 135kg plus 90kg on the load platform going up, 115kg when coming down. Drive comes from two electric wheel motors with a maximum travel speed of 4.8kph. The overall length of the new machine is 1.59 metres, overall width 750mm and stowed height 1.59 metres. Total weight is 640kg.

## QUINTO CALLS IT A DAY

Norwich, UK based Quinto Crane & Plant Hire has appointed an administrator and looks set to close following a year or two of tough trading.

The Quinto name first appeared in 1966 as a division of the Pointer Group which was acquired by RMC in 1972. Ivor Kiddle purchased the business in a 1977 MBO, naming it Quinto to reflect the company's five depots. In 2014 Oliver Arnold, a successful agricultural contractor, acquired 100 percent of the equity from the Kiddle family. At that time Quinto ran a fleet of 60 cranes from eight locations, with 125 employees and revenues in the region of £8 million. It latest accounts show similar revenue levels.

**Quinto**

## COMET SPIDER LIFTS

Italian manufacturer Comet has finalised a new range of Leopard spider lifts with working heights of up to 25 metres. The move back into spider lifts began last year following the opening of a new facility where the new models will be built.

The full specifications are preliminary, but the line-up includes four models with working heights of 14, 18, 21 and 25 metres, along with a model insulated to 46kV. All four offer a choice of petrol, diesel or lithium battery power options. A 230 volt AC motor is also available as an addition to the main power source when quiet emission-free operation is required.

All four feature hydraulically extending non-marking tracks for additional stability when travelling, standard radio remote controls, one button automatic levelling and an auto stow feature. The three larger models have unrestricted platform capacities of 250kg, while the 14 metre unit is 200kg. Maximum outreach is 6.5, 7.5, 9.0 and 11.5 metres respectively.

Comet says it will launch two larger models in the near future.





## FREE-STANDING GEDA HOIST

German hoist manufacturer Geda has launched the new 1500 Z/ZP F - a free-standing version of the 1500 Z/ZP - able to operate as a material or passenger hoist to free-standing heights of up to 12 metres saving time on drilling and filling anchor points, although it can be built to 100 metres when anchored. The hoist features a 1.45 x 3.3 metre loading platform with a lift capacity of up to 1,300kg or seven people.



The new Geda  
1500 Z/ZP F

## MEC 16FT MAST LIFT

MEC has unveiled a new 16ft all-electric, self-propelled mast lift - the MMAE16 - with direct electric motor drive and electric driven screw actuators for the lift and steering, eliminating the need for any hydraulic system, hoses or hydraulic oil. Power comes from a standard AGM maintenance-free battery pack.

The maximum working height is 6.8 metres indoors or 5.6 metres outdoors, while the platform capacity is 227kg overall or 113kg on the 500mm roll out deck extension, which extends the one metre platform to 1.5 metres. The new lift has an overall width of 760mm, a stowed height of 1.98 metres and an overall length 1.4 metres. Total weight is 985kg including the roll out deck extension.



## NEW RUTHMANN DISTRIBUTION

Versalift UK has taken over the UK distribution of Ruthmann's German-built truck mounted platforms from Ad Astra/ASI. The move follows Versalift's acquisition of Ruthmann last year. Versalift UK already distributes the Ruthmann Ecoline truck mounted lifts from Italy.

Operations will be based at its headquarters in Northamptonshire where it is investing in further resources including sales, marketing, after sales and an expanded parts operation. Chris Wrenn will manage as head of Ruthmann sales.



Chris Wrenn

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## MORE NEW AGE FERRARI CRANES

Italian loader crane manufacturer F.lli Ferrari has added a new five model 40 tonne/metre family of cranes to its premium New Age crane line, manufactured on a new dedicated assembly line in Poviglio, Italy.

The new range includes:

- 7401 C - Basic 40 tonne/metre with 430 degrees slew and dual linkage boom
- 7401 SC - Short boom version of the 7401 C
- 7441 C - Proportional 44 tonne/metre 430 degrees slew dual linkage boom and Proportional Power Boost controls (PPB).

- 9405 C - Basic 40 tonne/metre with 360 degree slew and dual linkage boom
- 9445 C - Proportional 44 tonne/metre with 360 degree slew, dual linkage boom and PPB.

The cranes can be equipped with two to eight section booms providing a reach of 7.97 to 20.85 metres, with the possibility to add a 10 tonne/metre six section telescopic jib on all but the SC short boom model. New Age cranes are the company's premium models with maximum performance, ease of use and simple maintenance.

## OZ SCISSOR SAFETY SYSTEM IN EUROPE

Australian company EQSS is to launch its OverWatch anti-entrapment/secondary guarding device in Europe. Introduced in Australia in 2020 the company says that around 6,000 scissor lifts in Australia and New Zealand are already equipped with the new device which can be installed in around 20 minutes on machines from manufacturers that have already approved the system.

The OverWatch system is based on a Lidar - Light Detection and Ranging or Laser Imaging, Detection and Ranging - sensor. Sometimes called 3-D laser scanning it targets an object or a surface with a laser or infrared beam and measures the time for the reflected light to return to the receiver which tracks the operator's movements.

The system analyses the operator's position and movement in relation to the motion of the scissor lift. It can then determine when an operator has moved abruptly or is in a dangerous position, either of which will immediately stop the machine usually without using the operator as a mechanical element to trigger the anti-crush device. The first European units are undergoing trials in the UK.



The EQSS sensor on a JLG control box



Speedy prepares for its first trials and demonstrations

## BID FOR BEATRICE

UK rental company Hire Safe Solutions is auctioning the pink boom lift 'Beatrice' at Vertikal Days with 100 percent of the proceeds going to two charities - Cancer Research UK and BBC Children in Need. The company took delivery of the special 45ft Genie Z45/25RT articulated boom lift at the end of 2016 and since then has so far received £54,530 for the charities.

If you are interested in bidding for the machine, you can make an offer in advance of the show to [beatrice@vertikal.net](mailto:beatrice@vertikal.net) - the highest offer will then be used as the reserve for live bids at the event. You are also most welcome to put in a low and high bid, with the low bid being used if it is the highest, the high if not. The Vertikal Press will also commit to adding at least two percent to the winning bid.



## FIRST 60T SANY TELECRAWLER IN UK

UK crane sales and service company Foster Cranes has imported the first 60 tonne Sany SCE 600TB in the UK. Features include a five section 46 metre full power boom, topped by a 9.2 to 16 metre bi-fold swingaway extension for a maximum tip height of almost 63 metres at which it has a capacity for 2.7 tonnes at a radius of 12 metres. The extension can offset by up to 30 degrees.

The crane is rated at three metres and can handle up to 10 tonnes on the fully extended boom. The overall width is three metres for transport, extending to an overall working width of 4.8 metres. Power comes from a Stage V Cummins with Rexroth hydraulic system, twin hoists and a central lubrication system. The cab tilts up to 20 degrees and is both air conditioned and heated. Other features include a boom tip camera system, two toolboxes, working lights on the boom, remote controls and a 24 month, 2,500 hour warranty. The unit will be on display at Vertikal Days.

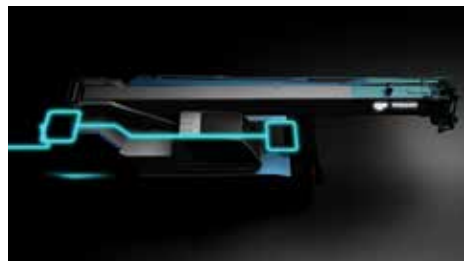


The SCE600TB

## NEW ELECTRIC RT

Tadano is developing a new all-electric Rough Terrain crane using battery/mains electric power, although no details have been divulged. The company says it is working with several industry suppliers and partners and hopes to launch the new machine in late 2023. It is also gathering all of its sustainable solutions under the brand 'Tadano Green Solutions' (TGS) such as the E-Pack remote electric power pack for All Terrain cranes and the use of HVO fuel.

Chief executive Toshiaki Ujiie said: "In conjunction with previous product innovations to lower CO2 emissions, we are excited to introduce the first battery/electric Rough Terrain crane which will be a key driver for our goal of 35 percent reduction in product CO2 emissions by 2030."



## NXGEN LIFTING OPENS

A new UK crane rental company - Nxgen Lifting - based in Warrington has been formed by Kelly McPhilbin - who will manage the business - and silent partner Andrew Foster of Foster Cranes. The new venture has already taken delivery of several diesel and electric powered Hoeflon cranes, along with Hoeflon S600 and S800 trolley mounted vacuum lifters. The new venture also plans to add JMG pick & carry cranes to the fleet. Initially coverage will be focussed on the Northwest and Midlands regions of England.

McPhilbin was previously with MGA Crane Hire and AMC Hire - originally A Mini Crane Hire. She started out in the access industry as an area sales manager with Nationwide Platforms before moving to APL in 2019 and then A Mini Crane Hire the following year. Nxgen has also appointed Chris McArdle as head of operations and Appointed Person. He also joins the company from AMC Hire where he has worked for more than 10 years as an AP.



## JLG 360° TELEHANDLERS ARRIVE IN USA

The first JLG 360 degree telehandlers - built by Dieci but badged, sold and supported by JLG - have arrived in the USA. The partnership with Dieci involves supplying three models - the 20 metre/6,000kg R1370, the 24.1 metre/6,000kg R1385 and the 30 metre/5,000kg R11100 - based on Dieci's latest Pegasus models but adapted to the local market and JLG's requirements.



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# FINANCIALS ROUND-UP

## LIEBHERR BOUNCES BACK

Liebherr managed a strong recovery in 2021 with revenues increasing 12.6 percent to €11.64 billion, close to the record achieved in 2019, while pre-tax profits almost tripled to €812 million. The mobile crane division saw sales improve almost 15 percent to €2.88 billion, tower crane revenues jumped 26.8 percent to €563 million, while maritime crane sales declined almost seven percent to €740 million. The outlook for 2022 is positive with the group likely to become a €12 billion company.



## ASHTEAD GROWTH CONTINUES

Ashtead - owner of Sunbelt Rentals in the UK, USA and Canada - achieved nine month revenues of \$5.88 billion, up 19 percent on the previous year. Pre-tax profits were \$1.28 billion, a 38 percent improvement on last year.



## TADANO TO SUSPEND SOME PRODUCTION

Tadano will halt production at a couple of its plants in Japan in May due to "forecasted interruptions in the delivery of certain parts...."



Russia's military invasion of Ukraine and supply chain effects from the ongoing coronavirus lockdowns in China."

The Kozai and Shido Plants in Kagawa which build Rough Terrain, All Terrain and truck cranes will suspend production from May 9th through May 13th.

## HIGHER SALES, LOWER PROFITS

JLG has reported first quarter revenues of \$883.1 million, up 19.6 percent on the same quarter last year thanks to strong demand in North America. Aerial work platform sales increased 23 percent, telehandler sales jumped 31 percent and 'other' sales - parts, services, used equipment - improved five percent. However operating profit plummeted to \$7.5 million from \$80.5 million last year, a 91 percent fall caused by higher material and logistics costs and higher manufacturing costs. The JLG order book/backlog at the end of the quarter reached a record \$3.96 billion up from \$1.5 billion a year ago.



## HAULOTTE BACK IN THE BLACK

Haulotte has confirmed its full year revenues of €495.8 million - up 13 percent - while pre-tax profit for the year to December 2021 was €16.1 million, compared to a loss of €15.6 million in 2020. The company has also just issued its first quarter sales numbers with a 28 percent improvement to €135.8 million.



## VP UP FOR SALE

UK rental group Vp - owner of telehandler rental company UK Forks, low level access company MEP and general rental business Brandon Hire - has been put up for sale. The company is publicly owned, but 50.26 percent of the equity is held by Ackers P Investment Company which is controlled by Vp chairman Jeremy Pilkington.

The Vp board has said that having considered various options it has unanimously decided to investigate the sale of the entire company and has launched a formal sale process for the business under 'Formal sale process' as defined in the UK's Takeover Code. The company has confirmed that it is not currently in discussions with any potential suitors, nor has it received any approaches.



## 52% JUMP FOR MILLS RENTAL

The Rental division of Brazil's Mills' achieved full year revenues of R642.9 million (\$135.1 million) a 52.2 percent increase on 2020. Operating profit came in at R185.5 million (\$39 million). The group as a whole saw revenues climb 45.8 percent to R738.1 million (\$155.1 million), with pre-tax profits of R141.2 million (\$29.7 million).



## PROFIT BOOST FOR WACKER NEUSON

Telehandler manufacturer Wacker Neuson reported 2021 revenues of €1.87 billion, an increase of almost 16 percent. Pre-tax profits more than tripled to €187.4 million. The company has reported a strong cash flow, which has allowed it to increase R&D spending and eliminate its net debt.



## RECORD FIRST QUARTER FOR HERC

US-based Herc Rentals reported a 25 percent increase in revenues to \$567.3 million, a new record.

Pre-tax profit grew by more than 63 percent to \$67.1 million driven by a 4.1 percent improvement in rental rates and higher utilisation. Capital expenditure in the quarter was \$286.8 million, up from \$90.9 million this time last year.



## RECORD YEAR FOR HMF

Danish loader crane manufacturer HMF reported record revenues achieving sales of DKK 1.1 billion (€148 million) thanks to higher activity in most of its markets, while it converted last year's loss of DKK 3.8 million (€511 million) into a profit of DKK 85 million (€11.4 million).



## MIXED RESULT FOR MANITOU

Manitou saw revenues for the three months to the end of March decline four percent to €450 million with sales

of new equipment down nine percent to €355 million. Other revenues improved 15 percent to €95 million. The company booked €637 million of new orders in the quarter taking the order book to a new record of €3.3 billion compared to €1.3 billion at the end of March 2021.



## SOLID RESULT FOR GENIE

Genie has reported first quarter revenues of \$551.5 million, an increase of 15.7 percent on the same period last year. Operating profit increased by more than 32 percent to \$32.5 million. The backlog/order book increased by 77 percent to \$2.3 billion.

Terex as a whole saw revenues improve 16 percent to just over \$1 billion, while pre-tax profits improved almost 35 percent to \$64.2 million.



# 280 HAULOTTES FOR MOLLO

Italian rental company Mollo Noleggio has ordered 280 Haulotte aerial work platforms including booms such as the 60ft HA20 Le Pro, the 46ft Sigma16 Pro, and the 99ft HA32 RTJ Pro, along with scissor lifts and Star 10 mast booms. A large percentage of the new machines will be electric powered units.



# NEXT GEN TELEHANDLER

German manufacturer Sennebogen has unveiled a new heavy-duty telehandler - the 3.40 G series - the first in a new generation, designed as a dual purpose machine able to work full time as a wheel loader replacement or as a heavy duty compact telehandler.

The four tonne 3.40 G has a maximum lift height of 7.7 metres at which it can handle 2.6 tonnes with the oscillating axle free or 3.3 tonnes when locked. Maximum forward reach is 3.9 metres with a capacity of 1.7 tonnes. It also features a new state of the art cab that can elevate to 4.1 metres for an improved view when loading into closed side containers. The overall weight is 9.4 tonnes, overall width 2.43 metres, height 2.47 metres and overall length 5.4 metres. The maximum default drive speed is 20kph, although 30 and 40kph can be specified.



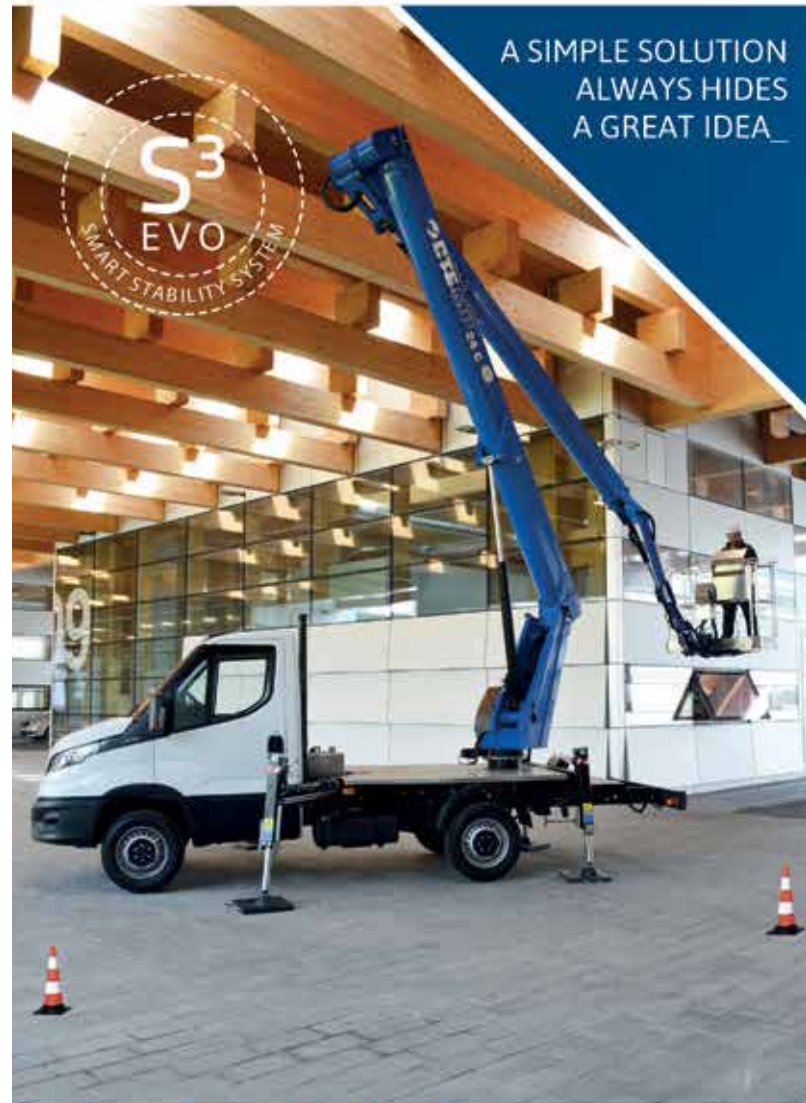
# A NEW PRESIDENT FOR IPAF

Karin Nars of Dinolift was appointed as the new president of IPAF at its AGM held in London last month. Nars becomes the first woman and the first person from the same family to hold the position. Her father Lars-Petter 'Lasse' Godenhjelm served as president of the Federation from 1999 to 2001.

In her acceptance speech she said that while no one knows what impact the recent events will have on us all, it highlights how important it is to stand true to our beliefs. She added that as the first female to hold the position she wanted to use her voice to help provide opportunities for more women to join the access industry.



Peter Douglas of IPAF with Karin Nars



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## NEWS HIGHLIGHTS

- US **Alta Equipment** has appointed **Craig Brubaker** as COO
- UK's **ABA Crane Hire** has taken a 120t **Liebherr LTM 1120-4**
- **Alimak** is pulling out of the Russian market
- UK's **Q Crane Hire** has taken a 250t **Liebherr LR 1250.1** crawler crane
- UK's **County Lifting** has taken a 20t **Kato CR-200RF** City crane
- **Link-Belt** CEO **Melvin Porter** has been appointed as a VP of Japanese parent **Sumitomo**
- Spain's **Grúas Leman** has purchased a 700t **Liebherr LTM 1650-8.1** and 700t **LR 1700-1.0** crawler
- **CMC lift UK** has delivered a 23m **S23** lithium spider lift to the Houses of Parliament
- Italian manufacturer **CTE** has formed a new partnership company in North America
- **Engineered Rigging** of the USA has appointed **Nick Darlage** as director of projects
- **Bobcat** has appointed **Machinery Exchange** as dealer for Zimbabwe and **Albadri Power** for Sudan
- China's **Dingli** has appointed **Laurent Guillaux** as general manager continental Europe
- US **Stevenson Crane, Rigging and Heavy Haul** has added a 500t **Liebherr LR 1500** crawler crane
- **JLG** has expanded **JLG Financial** in North America
- Italy's **Polita Sollevamenti** has taken a 60t **Tadano AC 3.060-1**
- **David Steel**, former MD of **Coles Cranes** has died
- **John Sisk** has taken the first **JCB 525-60E** electric telehandler in Ireland
- **Genie** has appointed **MS42** as a distributor for Auvergne-Rhône-Alpes, France
- **Manitex** has acquired a 70% stake in **Rabern Rentals** of Amarillo, Texas
- **Manitex** has appointed **Michael Coffey** as CEO
- **Hiab** dealer **Hydraulic Fleet Solutions** has opened a new service location in Croydon
- Germany's **Gerken Arbeitsbühnen** has taken 12 new **Ruthmann** truck mounted lifts
- **Rival UK** has appointed **Matt Fisher** as operations manager
- **Fassi** has delivered two **F1450R-HXP** Techno cranes to **Kuljetusliike Knuutinen**, Finland
- **Mycrane** has appointed franchise holders in the UK and Qatar
- **Palfinger** is to supply **Aker BP** with remote controlled cranes
- UK powered access entrepreneur **Tony Thornton** has died
- **Inpex Australia** has given a five year crane maintenance contract to **EnerMech**
- UK's **City Lifting** has taken a second 120t **Liebherr LTM 1120-4.1**
- **Link-Belt** has appointed **Kevin Hague** and **J. P. Kolb** as district managers
- Germany's **I & H** has taken a new 60t **Tadano AC 3.060-1**
- UK's **Southern Cranes & Access** has taken a 150t **Liebherr LTM 1150-5.3**
- **France Elévateur** Belgium has moved to new premises in Tournai
- **Jeff Eisenberg** has re-joined **Smart Platforms** as a non-exec director
- **Kardie Equipment/TGM Wind** has ordered several 104m **Bronto S104HLAs**



**Craig Brubaker**



**Melvin Porter**



**Nick Darlage**



**Laurent Guillaux**



**David Steel**



**Michael Coffey**



**Matt Fisher**



**Tony Thornton**



**Kevin Hague**



**Jeff Eisenberg**

- **Hugg & Hall Equipment** of Arkansas has acquired **Southern Material Handling** in Oklahoma
- **JLG** has appointed **Ara Eckel** as director of connected solutions
- **TVH** has opened a new office building in Waregem
- **Bronzeshield Lifting** has taken a 60t **Liebherr LTM 1060-3.1** and 110t **LTM 1110-5.1**
- **LGMG** Europe has appointed **Wim de Jong** as operations director
- Australia's **Kennards Hire** has acquired **Redi Hire Solutions** in W. Australia
- **Hyva Pacific** has acquired Queensland distributor **Truck Cranes Australia**
- **Terex Cranes** has appointed **MCT** as its tower crane dealer for Israel
- Tower crane veteran **Reinhold Bräuner**, founder of **MTI-Lux** has died
- Germany's **Kranverleih Saller** has taken a 90t **Liebherr LTM 1090-4.2**
- France's **Metaloc** has taken 12 **Genie 45ft Z-45 FE** hybrid 4x4 boom lifts
- Germany's **Dunkel Autokran** has taken a 45t **Tadano AC 3.045-1** City
- **Manitou** has opened its new plant in Candé, France
- **Lifting Gear UK** has promoted **Andrew Harrison** to managing director
- **Konecranes** and **Cargotec** have abandoned merger plans
- Germany's **Beyer-Mietservice** has purchased 120 **Bravi Leonardo** HD lifts
- Chicago's **RentalMax** has acquired **Regional Rentals and Sales** in Indiana
- Scotland's **Hugh Simpson (Contractors)** has taken a new 700t **Liebherr LTM 1650-8.1**
- Norway's **nLink** has unveiled a boom lift robot incorporating AI
- **Tadano** has delivered a third RT crane to **Easter Island**
- Ireland's **CP Hire** has taken its first **Skyjack** boom lifts
- UK's **International Platforms** is to auction an aerial lift at **Vertikal Days** for charity
- **Jekko** has appointed **Marco Piccin** as export area manager for N. Europe, M.E. Asia and Australia
- **US Service Group** of New York has acquired **Walker Crane & Rigging** in Connecticut
- **CTE** announced a new organisation led by **Marco Govoni** and **Matteo Bonfiglioli**
- **Herc Rentals** has acquired Detroit-based **Cloverdale Equipment**
- Canada's **Serious Labs** has teamed up with Australia's **JBHXR**
- France's **Kiloutou** is to acquire Denmark's **GSV**
- **Genie** has appointed **François de Potter** and **Alessandro Ghietti** as regional sales managers
- France's **Klubb** has appointed **Kunze** as dealer for Southern Germany and Austria
- **Genie** is to charge for technical support on older platforms in the USA
- Germany's **Weiss Kranservice** has taken a 450t **Tadano AC 7.450-1**
- **Snorkel** has appointed **Jonathan Jonno Tulitt** as MD of its New Zealand plant
- **LoxamHune** has opened in Salamanca, Spain
- Ireland's **O'Sullivan Crane Hire** has taken a 40t **Liebherr LTM 1040-2.1**
- Germany's **Steil Kranarbeiten** taken a 700 tonne **Liebherr LTM 1650-8.1**
- **Unic Cranes Europe** has appointed **SNM Lift** as its distributor for France



**Ara Eckel**



**Wim de Jong**



**Reinhold Bräuner**



**Andrew Harrison**



**Marco Piccin**



**Matteo Bonfiglioli**



**Marco Govoni**



**Alessandro Ghietti**



**Jonathan Tulitt**

- **Haulotte Scandinavia** and **Jungheinrich** have formed a partnership in Norway
- Canada's **Discover Battery** has appointed **Lucjan Bogdan** and **Stefan Mitrea** in Europe
- Martinique's **Groupe Plissonneau** has acquired **Montagrués** in Paris
- **IPAF** has published guidance for using **AWP** in public areas and near roads
- France's **Groupe Cayon** has taken three 60t **Grove GMK3060L-1** and a 150t **GMK5150L-1**
- **Linamar** is to manufacture **Skyjack** products in China
- **Versalift UK** has appointed **Neil Ashton** as head of aftersales and **Sophie Beeby** as customer services manager
- Switzerland's **Stirnemann** has opened its Danish operation in Ølstykke
- UK's **Smart Platform Rental** has taken **Multitel** and **Klubb** hybrid platforms
- Brazil's **Neoenergia** has taken 91 truck mounted lifts from **Socage**
- **JLG** is to manufacture products at an **Oshkosh** plant in Tennessee
- Germany's **Hüffermann Krandienst** has acquired **Thömen Kranarbeiten** und **Schwertransporte**
- **Liebherr** launched the **LiMain** system for cranes on offshore platforms
- **US Ring Power** has appointed **Mike Beauregard** as GM Utilities, Cranes & Trucks
- **Mateco/TVH Equipment's Rentalift** will continue to represent **Multitel** in Belgium
- UK's **AFI** has taken 50 **Niftylift** hybrid boom lifts
- **NJC** has taken a 42m **Easy Lift** spider lift for London **Sky Pool**
- **Ruthmann Reachmaster** has appointed **Stevenson Crane** for Ruthmann in Illinois
- **Mammoet** has frozen operations in Russia
- UK's **Eyzee Cleaning Solutions** has purchased a 38m **Bronto S38XDT** and 47m **S47XR**
- **JLG** has appointed **Dali Ribeiro** as director product management for **JLG/SkyTrak** telehandlers
- **Tadano America** has appointed **Cropac Equipment** for all of Canada
- **Versalift International** has appointed **Tara-Chelise Fosbrook**, as European marketing manager
- Netherlands based **Collé** has opened a branch in Odense, Denmark
- **Port Gdańsk Eksploatacja** in Poland has taken the 300th **Liebherr LHM 550** mobile harbour crane
- **Dinolift** has appointed **Serafin Maszyns** as distributor for Poland
- Rome's **Marano** has taken a 42m **Easy Lift R420** spider lift
- Swiss company **Emil Egger** has taken a 450t **Tadano AC 7.450-1**
- **US IMT** has launched a battery power pack for its service cranes
- Germany's **Schmidbauer** has taken six 45t **Tadano AC 3.045-1**
- **Modulift** has produced a new 300t **CMOD 250** corner unit
- Netherlands based **Roll Group** has formed a JV with **FTE Heavylift** of Saudi Arabia
- **Bobcat** has appointed **ITT Canarias** as dealer for the Canary Islands
- France's **Kiloutou** has appointed **Nils Altrogge** as MD of **Kiloutou Deutschland**



**Lucjan Bogdan**



**Stefan Mitrea**



**Neil Ashton**



**Sophie Beeby**



**Mike Beauregard**



**Dali Ribeiro**



**Tara-Chelise Fosbrook**



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Select has three units of the LR 1160.1 Unplugged delivered already and has three more on order

# POWER SURGE

The past year has seen a significant surge in electric crawler crane launches, Will North reports.

**A growing number of manufacturers are busy developing electric cranes and the past year or so has seen battery electric crawler cranes enter the mainstream market with units starting work on sites in London and Oslo.**

Dutch newcomer PV-E has held a launch event for its first models, while Marchetti has entered the market with two new models at the smaller end of the size range. Liebherr Nenzing has fleshed out its Unplugged range with two new models and rumour has it that Sany has an 80 tonne all-electric telescopic crawler out with customers and a 150 tonne battery powered lattice crane on test.

## HOT SWAPPABLE

While Liebherr Nenzing's range uses permanently installed batteries, and recommends that its cranes are kept plugged in if possible, PV-E has chosen to use battery packs that can be charged remotely and swapped over. The battery pack is designed to hold enough charge for eight hours of operation but can be replaced rather than recharged if the crane needs to work a double shift.

In March, the company held a launch event for its first crane in the range, the PV-E EC 160. As reported in *Cranes & Access* last February (issue 23.1- p39, Green Shoots) the first units are destined for Volker Wessels, which has ordered three cranes to use on projects in the Netherlands. The company expects to have the first of these cranes working on site later this summer.

The EC 160 is a 160 tonne crane with a 43 metre main boom and 42 metre luffing jib. Its 200kW

motor will be powered by a 260kWh lithium iron phosphate (LiFePO4) battery pack. "They are super safe, chemically stable and inert," says PV-E CEO Joost Bömer. "They also have a long life and you can recharge them from any level of charge without shortening their life."

The cranes use components from a range of well-respected suppliers including Rexroth, Avevaat, Hirschmann and Fuwa. The CE approval was carried out by Eager.One, the lifting engineering subsidiary of the Meemaken group, founded by former Mammoet chief executive Rod van Seumaren.

Volker Wessels is not the only buyer for these cranes. Jens Christoffersen, sales manager for construction and rail equipment distributor Lesansco has stated that the Danish company will be offering the cranes across the Nordic region.

## NEVER STUCK

Marchetti has taken a different approach to bringing electric power to market. While Liebherr and PV-E's ultimately rely on having access to mains power, Marchetti offers a more hybrid approach. It will launch two electric powered versions of its 25 tonne Sherpina telescopic crawler crane at Vertical Days. The all-electric model uses a 100kW AC permanent magnet electric motor to power the hydraulics fuelled by a large lithium iron phosphate battery (LiFePO4) battery pack that is said to be good for a full eight hour shift. The battery is enclosed in a steel electrically heated box. The crane is also



PV-E battery pack



PV-E launch of the EC 160 in March

equipped with a small Stage V Perkins diesel which can be used to recharge the batteries when it is not possible or convenient to recharge them from an AC mains power outlet. The other option is a regular diesel powered model with a 230 volt AC electric motor also available to power the hydraulic pumps when a suitable outlet is available.

Rob Law of UK distributor AGD said: "It's a beautiful idea, it's really flexible, and ensures you'll never get stuck without power. It can be charged from the mains quickly enough for a mid-shift lunchtime top up, or fully charged overnight. And if all else fails the diesel will top up the battery pack. Marchetti will almost certainly launch further models if customers respond positively to the new cranes."

Law points out that on many jobs such as on underground projects where the crane is used to lower loads down a shaft, a crawler crane can work quite happily for months, or even years, while plugged into an electric power outlet. A challenge can come though, he says, when the crane needs to be driven on site, particularly on a large site without adequate power supply or plug in points as the crane could run out of power. The small diesel engine on the electric Sherpa ensures they always have power and can always be moved.

### POWERING ON

Liebherr Nenzing's engineers have not been sitting idle since the launch of its first two Unplugged models, the LR 1200.1 and LR 1250.1 Unplugged.



Marchetti's new hybrid power system for its Sherpina cranes offers Battery, diesel or plug-in power



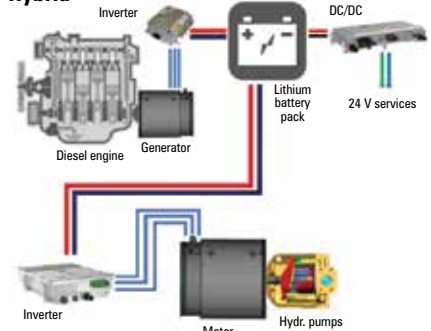
The latest unplugged models are the 130 tonne LR 1130.1 and 160 tonne LR 1160.1.

The first three units of the LR 1160.1 Unplugged have been delivered to Select in the UK joining their existing LR 1250.1. The company has an order in place for a further three units to join its fleet in 2022 and Liebherr says that it has also taken orders in Finland, Sweden, Hong Kong and Australia.

As well as being battery powered these new cranes feature three new safety aids, available on many recent Nenzing machines. The 'Gradient Travel Aid' in which the control system automatically calculates the crane's centre of gravity as it negotiates sloping ground and warns the operator before the crane becomes unstable. While travelling, the operator receives real time information about the permissible and actual gradient and the crane's overall centre of gravity. If necessary, the boom angle can be altered so that the machine remains stable.

'Ground Pressure Visualisation' calculates the

### Hybrid



actual ground pressure of the machine in real time and compares it with the specified safety limits of the relevant jobsite. This means the operator is permanently aware of whether the machine is situated in, or is approaching, a critical area.

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Liebherr LR1160E electric crane at HS2's Canterbury Road vent shaft

Photos Courtesy of Patrick Moreby

# CHARGING AHEAD

Select Plant in the UK was one of the first two buyers of Liebherr's Unplugged electric crawler cranes. Will North spoke to staff across the company to find out what it is like to own and operate one of these new electric cranes.

Select received its first 'Unplugged' cranes from Liebherr early last year as one of two launch customers along with Nordic Crane in Norway. Select ordered two units of the 160 tonne LR 1160 and one 250 tonne LR 1250. For the past 12 months or so the cranes have been working on a variety of contracts including two key projects, Old Oak Common in north London where they are working on the UK's new HS2 high speed railway line and Olympia in central London which is a mixed use development. On both jobs, they are performing general lifting duties.

## IN CONTROL

Select crawler crane operator Patrick Moreby has been working with the Unplugged cranes since the first pre-production prototype. He is now training apprentices on their use including Rachel Penfold, who is working alongside him at Old Oak Common.

Moreby was unfazed when asked to work with the first electric crawlers. "A crane is a crane," he says. "There have been electric cranes at ports, for example, for a long time. Now it's coming full circle to construction."

With the prototype, some downtime was expected, as Select and Liebherr worked to fine tune the crane control systems. This would sometimes take a few hours or even overnight as data was sent back and worked on at the

factory in Nenzing, Austria, and then adjustments sent back to the crane. On site, reliability of the production models has been as good if not better than that of the diesels.

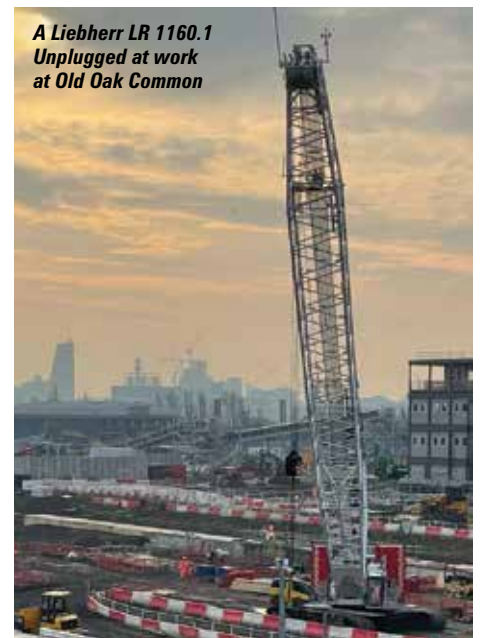
At Olympia, Moreby was operating the LR 1250.1 Unplugged for 12 hour shifts without needing to recharge. With the crane remaining stationary he could run the power draw down to almost nothing with no slowdown in operation. Even at Old Oak Common where the crane is moving around the site more, he feels it could have run longer without needing to plug in.

## THE IDEAL APPRENTICE

Penfold came to the crane industry after starting out as a carpenter and engineer/concrete technician. Hearing of an opportunity to train as a crane operator, she leapt at the opportunity and first trained on a 60 tonne LTR 1060 telescopic crawler in Select's yard in Cambridgeshire before moving on to a lattice boom crane.

She is enthusiastic about a career in the crane industry and about the chance to learn on the new electric models, with a conviction that electric crawlers need to replace diesel cranes. For Moreby, Penfold is the ideal apprentice, a quick learner who is eager to get in the cab and start working. She took to the crane immediately, finding the control system easy to get to grips with following her training on the LTR.

A Liebherr LR 1160.1 Unplugged at work at Old Oak Common



The future of lifting: Apprentice Rachel Penfold is learning quickly on the LR 1160.1 Unplugged



*The Unplugged Liebherr at work at Olympia*



*The 1160 at work at Old Oak Common*

Both operators praised the responsiveness of the electric crane’s controls saying it is even better than on the diesels. “You can feel it as soon as you press the lever,” says Moreby. “If an operator has transferred from a larger crane with three main hydraulic pumps, they might find the electric a little slower when operating multiple functions at the same time. But, comparing like for like, the two pump electric works just as fast as an equivalent diesel.”

“On site when a diesel crane would normally be idling, there is total silence with the electric machines. When lifting, the hydraulics make the same noise whether you are working on diesel or electric, but this provides useful feedback on the crane’s performance.”

**BAPTISM OF FIRE**

While the cranes perform as well as, if not better than diesel rivals, making the most efficient use of them requires site owners and lead contractors to plan for their deployment. James McKenzie was appointed person on the Old Oak Common site and worked with the cranes from their arrival on the site. I spoke to him shortly before he left the project for another role.

In his role as AP (Appointed Person), he is very much the point of contact for the lead contractors and project owner. If a crane stops working, he is the one who will bear the brunt of the customer’s disappointment. It’s a role that demands a conservative, risk aware, approach. His focus has



*Liebherr LR1250E electric crane at HS2’s Old Oak Common site*

been on ensuring the crane remains charged.

At the Old Oak Common project the crane is required to track around site a lot. Moving a 170 tonne crane consumes a lot of energy taking a lot of charge from the batteries. This requires knowledge of the crane and planning of the charging schedule.

Unlike on the Olympia job where the crane was working in a stationary position, McKenzie has been keeping the Old Oak Common crane plugged in constantly to ensure the batteries have as much power as possible to keep up with the tracking requirements. As batteries are sensitive to temperature, the Liebherr Unplugged cranes have both battery heating and cooling systems to ensure they stay within the optimal temperature band and this is done whether the crane is plugged into the mains or operating unplugged.

McKenzie says that part of his day-to-day work on site has been managing the cranes’ charging cables. For example, the lengthy access road required a longer journey without direct access to power. As the crane is only designed to track around 600 metres on a full charge this needed to be planned and managed carefully ensuring that the cables would be available to avoid any charging downtime.

But he is keen to stress this isn’t a flaw of the cranes. “The cranes themselves are phenomenal,” he said.

**PROPER PLANNING**

McKenzie identified that on the Olympia site his job would have been much simpler if the charging infrastructure could supply more power (63A) due to the large amount of tracking the cranes needed to undertake.

Andrew Lloyd, Select’s lead lifting engineer for crawler cranes, hoists and specialist lifting, worked on positioning the mains distribution units (MDUs) on site, and on sourcing the long cables required. Neither of which were easy. Lloyd’s task was to balance the need to reduce cable lengths with minimising the number of MDUs.

“We had to do a bit more planning than usual,” he

**CHARGING POINTS**

Liebherr says that the life of crane batteries can be prolonged using a few, fairly simple, steps. Owners should distinguish between daily work and storage on site.

**DAILY OPERATION**

1. Operate the battery between 10 and 90% of the battery capacity
2. Whenever possible, operate the crane on the charging cable - plugged in
3. Keep the crane plugged in so that the batteries are properly tempered (important at temperatures below 15°C and above 35°C)

**STORAGE**

1. If work will be interrupted for more than three weeks, first discharge the battery and then set the charging target to 50%.
2. Keep the crane plugged so that the batteries are at the proper temperature. This is particularly important when outside temperatures are below 15°C or above 35°C.

says, “particularly the siting of the power points. Finding the optimum cable length was a learning experience. You draw more power with a longer cable, but we don’t want to have too many charging points. Liebherr says the sweet spot was about 50 metres so, we’ve located charging points within 50 metres of the cranes’ position.”

**POWER FAILURES**

It’s a constant of the industry that clients leave their first contact with a crane supplier until the last possible moment. Crane owners have come to accept this and are always ready to come up with the equipment and lift plan needed to complete the job.

But using latest technology such as electric crawlers pose new requirements for earlier engagement and planning. Ensuring sites have



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sufficient power will become a routine part of project planning.

Stephen Bradby, technical and engineering leader, lifting solutions said: "Fundamentally, there is an issue getting large amounts of power to sites quickly, even though project planning will often have started two years earlier."

One huge bonus of the crane is it can charge on less than 32 amps, which is usually readily available even before the temporary builder's supply is installed. The sites expected this to be much higher, but because the crane doesn't consume significant power when it is not physically moving the overall daily power requirement is very low.

With the energy sector struggling with the ongoing disruption of Covid, a potentially very long war prompted by Russia's invasion of Ukraine, and the need to urgently address climate change, electrification is hopefully, now, at the top of the political agenda. But it would be unwise to bet heavily on a major restructuring of the sector coming anytime soon.

In the meantime, says Lloyd, it will fall to the owners of electric cranes and other electric construction equipment to nudge project owners to consider their needs. "It is going to take education, trial and learning on our part and on their part, to see what works and what doesn't."

## CLEARLY CLEANER

The electrification of the economy, as part of a net zero strategy, has become a deeply polarised issue. Certainly, that is how it plays out across much of social media.

The reality is more complex. Finding commercially efficient ways to halt emissions and limit climate change will take experimentation and some ideas will not work out. Some sceptics may be acting in bad faith, but most have legitimate concerns based on the limited information available on this new technology.

Select's staff members knew that they would need to be ready to refute some commonly made objections to electric cranes such as they lack power, they require generators, they are slower... Some of these claims have some elements of



Select's new LR 1250 and LR 1160 on their way from Nenzing The second pic here would work better in the Electrics update piece

truth but none of them are convincing once you look in detail at how cranes use power.

A good starting point is to ask yourself what a diesel engine is used for on a crane. The obvious answer is that it drives the winches, the tracks, and so on. On most jobs though, that is far from the case. For as much as 90 percent of the time, the 230kW diesel engine on a crane like an LR 1160 is being used to keep the screen on in the cab.

In many ways, using a diesel engine to power a crane makes as much sense as buying an SUV to use as a backup charger for a mobile phone. This is because an engine produces power constantly, regardless of whether it is being used or not. A crane working from a battery, or the mains only draws the power it needs.

With a battery powered crane, this is true even when the battery itself is charged by a generator. The generator will produce some fossil fuel emissions. But as these are being used to charge a battery, and the power from them is only used as needed, the overall environmental impact is typically less than using a diesel engine directly. Weight for weight, batteries hold less power than diesel fuel. Most modern crawler cranes from companies such as Liebherr of Kobelco are highly optimised. But the need to use electrical power sparingly has pushed for even closer attention to detail. Lloyd says that looking at the way the cranes have been put together, he sees changes



like straighter hydraulic hose routing and layout. This reduces wasted energy - essential with battery powered machines.

Liebherr says that its engineers spent a lot of time to increase the efficiency of the hydraulics but the effort was worth it.

Bradby is of the opinion that this is merely the beginning - cranes could potentially be made more efficient by replacing most hydraulic functions with electric drive motors. "What Liebherr is doing with these cranes is using an electric motor to power a hydraulic pump. Longer term, the logical route is to get rid of the bulk of the hydraulic system altogether. You could have an electric winch and electric slewing gear."

"Most manufacturers of electric equipment are simply replacing the engine with an electric motor. What you find is that the hydraulics are relatively inefficient, because they've been designed to work with a diesel engine that is over-



Plugging in the Liebherr Unplugged crawlers at Old Oak Common



Select was one of two initial buyers of the Unplugged machines. Here, Kynningsrud Nordic Crane's LR 1250.1 Unplugged is shown at work in Oslo

**Liebherr LR1250E electric crane  
at HS2's Old Oak Common  
construction site**



powered. The logical route is a complete change of architecture to a fully electric, battery powered machine improving efficiency and potentially reducing the price as well. The only place where it really makes sense to retain hydraulics is in the big hydraulic cylinders used to luff a jib or to extend a telescopic boom."

Select was able to use telematic data supplied by Liebherr to assess the power use of its cranes. At Olympia - where the crane was used in a stationary position almost like a tower crane - Lloyd says that it used around 750kWh per week. A diesel working on the same site used 420 litres of fuel a week, or the equivalent of almost 4,300kWh meaning the energy use of the electric crane was just 20 percent that of the diesel.

Another criticism aimed at electric cranes is that they are slower than diesels. Moreby and

Penfold's direct experience was that this is barely noticeable. Lloyd, looking closely at the data from the cranes says that in terms of single functions, there is a very slight difference in the performance, increasing when performing multiple crane functions simultaneously.

But while this difference is measurable, it is not significant because as already mentioned, cranes on construction sites rarely work constantly and are more typically at idle. Even with the heaviest load on the hook, the crane uses no power while it is fixed into place.

"One of the things we occasionally have to address is a question around speed where some companies will claim faster luffing speeds," says Bradby. "But that is only looking at a tiny element of the total work day. When you analyse the telematics data, you see that the cranes are idle

for 70 to 80 percent of the day. And yet they're wanting to gain two seconds on the lift, it's so illogical!"

Nick Hooper, product lead for crawler cranes, is responsible for renting the new cranes to external clients. He saw these concerns play out when he was talking to a client considering using these cranes. The client would be operating the crane above a shaft from a stationary position. "They were worried about hoist speeds," said Hooper, "I told them there's no difference, we have checked the effect of hoisting speeds and it won't have any effect, it will be fine. When we looked at what they were looking to do, it involved one lift every 20 minutes. The crane has now been on site since January, doing exactly what the client needs it to do, as fast as the job requires."

### **COST CUTTING**

There is one clear measure by which diesel cranes beat their electric rivals: purchase price. Liebherr says that it designed its electrification concept for efficiency from the very beginning, with the aim of keeping the entry price as low as possible. The additional costs compared to a conventional machine are made up not only of the batteries, but also of all the necessary electrical components, such as the electric motor, wiring harnesses, chargers and thermal management. With today's technology, the company says the price of a typical 160 tonne crane increases by about 30 percent, depending on its configuration.

As battery technology develops, this cost premium is expected to reduce. And it is an upfront cost, which translates to lifetime savings. With an electric crane, you pay for the batteries' energy storage capacity when you buy the crane, with a diesel crane, you pay for energy storage capacity every time you fill the tank.

This was a consideration when Select confirmed the details of its order for the first of the Unplugged LR 1160 cranes. While the 250 tonner

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*Liebherr LR1160E electric crane at HS2's Canterbury Road vent shaft site*

is offered with only one battery pack - consisting of eight battery modules - the 160 can be supplied with either five or seven modules. McKenzie, faced with the challenge of deploying the cranes on site, would have preferred the larger batteries. But Hooper and Bradby realised this would have pushed the price beyond commercial viability. Hooper explains that the cost of the batteries is reflected in the rental rates for the electric cranes, which are higher than for their diesel counterparts. But, over the duration of the project, the cost of keeping the crane charged will be significantly less filling the diesel tank. Overall project costs will be the same, if not less, for an electric.

New crane buyers are used to spending large sums on cranes often borrowing to do so, knowing that in 10 or so years' time they will be able to recoup most of their initial outlay by selling the crane. While a well maintained crane will retain almost all of its performance and value for decades, that isn't the case for batteries.

But while batteries may have a limited lifetime to power a crane, that does not mean they have zero value when they need to be replaced. Companies like Tesla are already giving old car batteries a second life by using them in homes and offices to store power when it is cheaper - often overnight - and release it when it is needed. This means there is already a second-hand market for batteries. It is also possible to imagine how a crane company might use old batteries on site, perhaps with solar panels to store energy in the day and then use it to charge crane batteries overnight?



*Liebherr LR1250E electric crane at HS2's Old Oak Common construction site*

### THE FUTURE OF LIFTING

There is no way, Bradby says, to achieve net zero in construction without electrification. "Eight years from now we hope to meet the Scope One provisions (of the Greenhouse Gas protocol used in environmental accounting). In other words, we would achieve net zero. If we're going to achieve that then diesel has to go. HVO (Hydrotreated Vegetable Oil) is not the long-term answer, because that still generates emissions."

If it could, the company would buy more electric equipment, Bradby says, "But the suppliers need to build them. We'd love to buy electric cranes, but in many segments, they just don't exist yet."

Achieving this will also require the support of external clients, adds Hooper. "We can do our bit as Select but obviously it's going to need external clients to have the appetite for what we're trying to do."

Thankfully, many clients are forward thinking enough to ask for electrics already and many are keen to be seen to be early adopters of the more environmentally friendly machines. ■



*On the Olympic site, the team working with the LR 1160.1 Unplugged avoided risk by keeping the crane plugged in while tracking. With more planning of charging points, and more power, this should not be needed*





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An early JLG boom



JCB is the latest manufacturer to enter the sector with its AJ48D

# HALF A CENTURY OF BOOMS

If you have not purchased a new boom lift in a while and you are a canny and thorough buyer, you might be amazed at the sheer number of manufacturers you can choose from and the mind boggling range of machines they offer. At the latest count - and with the addition of JCB's latest machine - there are now 37 boom manufacturers from 10 countries. This is a far cry from when the sector was just getting underway in the early 1970s.

At that time your choice would have been limited to a handful of suppliers, all of them located in the USA. Fulton Industries/JLG and Selma Manlift were two of the earliest companies that began producing telescopic booms in the early 70's, they were soon joined by Snorkel, Krause and Fabtek. All of these companies exhibited at the 1977 PEM - Plant Engineering and Maintenance - exhibition in McCormick Place, Chicago. The show was attended by a number of European rental companies and contractors with inhouse fleets and as a result, that single show proved pivotal in the development of the self-propelled market in a number of European countries, with several signing distribution agreements there and then.

## TOO LATE TO THE MARKET

When Snorkel's Art Moore had pondered his company's entry into the market in 1976, he said: "I realised we would be the seventh manufacturer to enter the market if we went ahead with producing a boom."

He went ahead and managed to have a prototype ready for the PEM show as a last minute entrant, managing to squeeze Snorkel on a stand at the very back of the hall. Moore then stopped by the JLG stand and invited John Grove to visit his stand and take a look at the Snorkel TB-42 prototype. After Moore had shown him around his new boom lift, Grove said: "I'll tell you three things about your machine. It's a nice-looking machine and you have devoted more time to the cosmetics than others. You have described an interesting hydraulic system, but I'll reserve judgement until I

see how it operates." "And the third thing?" asked Moore. "You are too late Art!"

Art Moore and Snorkel pushed on regardless and began producing the new boom lift. Demand for these new machines increased and one or two new companies entered the fray. However, by the mid-1980s, many thought that too many manufacturers had entered the market for all of them to survive. Some consolidation did occur through competitor acquisitions and business failures and some stability ensued.

## EUROPEAN STRUGGLE

The first European manufacturers to enter the market struggled to compete with the American producers, given that production volumes were so wildly different, thanks to the much larger and more developed North American home market. Despite all this there are now more manufacturers than ever, with several European companies doing very well. The 2021 Cranes & Access product source guide/directory lists 36 boom lift manufacturers, JCB's recent entry takes that to 37 from 10 countries - and that is only counting those that are present on the international markets. A similar survey in 1990 would barely have yielded 15 companies, from six countries.

John Grove's comment in 1977 is very similar to one attributed to IBM chairman Thomas Watson in 1943: "I think there is a world market for maybe five computers." Followed by Ken Olson of Digital in 1977 who said: "There is no reason anyone would want a computer in their home."

The rapid rise in the number of manufacturers has been in response to a massive growth in demand for powered access. The number of



Art Moore with a restored 1979 Snorkel TB-42 at the ARA 2017 show



John Grove in front of an early boom lift



McCormick Place, Chicago in the 1970's

different machines that they offer has also grown exponentially. Articulated booms came along in the mid-1980s thanks mostly to Genie and Simon, followed by industrial models and ever higher working heights. More recently we have seen a focus on different power and drive options, including hybrid, all-electric and direct electric drive.



An early 2016  
Dingli 73ft  
GTBZ24S

## CHINA RISING

One of the biggest changes in recent years has been the arrival of Chinese manufacturers - of which there are dozens in China, but only a handful of them stand any hope or have any designs or potential to export to western markets. It should be remembered that it is only 10 years since the first Chinese platforms (Dingli) arrived in Europe.

Now the increasingly popular brands include Dingli, LGMG, Sinoboom, Mantall and to a lesser but growing extent the major construction equipment manufacturers of Zoomlion and XCMG.

While the Chinese products were initially dismissed as 'cheap, poor quality and using copied designs', their acceptance has grown incredibly over the past few years. So much so that in the USA, JLG and Genie teamed up to form the 'Coalition of American Manufacturers of Mobile Access Equipment' to lobby the US government to launch an investigation into their claims that they have been damaged by low prices from the Chinese importers and accusing them of selling at uncommercial price levels (dumping). The desire was for import tariffs to be applied on Chinese-built aerial lifts. So far it looks as though the main Chinese producers will face tariffs of between 14 and 20 percent. Interestingly most Chinese imports to date have been slab electric scissor lifts, which both JLG and Genie also manufacture in China and import to the USA.

## RAPID APPROVAL PROGRESS

What has surprised many in the market is how fast the privately held Chinese aerial lift manufacturers have learnt and adapted by taking



A Sinoboom TB28J Plus  
boom lift



Many aerial lift fleet buyers are taking large numbers of big Chinese built platforms such as these 32 metre Dingli scissors and more recently its booms

customer input on board and improving or re-engineering their products.

When it comes to boom lifts or very large scissor lifts - or any large and expensive equipment for that matter - buyers are understandably much slower to adopt a new supplier than for small less expensive machines. There are many reasons for this, particularly the fear of the unknown. If a 19ft scissor breaks down and the parts take a while to arrive, it's not the end of the world. However, if an €80,000 boom lift is unable to work for any length of time it's another story. Of course, resale values and relationships - being easy to do business with - also play a vitally important role.

## BUYERS BECOME LESS ADVENTUROUS

Manufacturers of small or simple equipment have long faced the challenge of persuading customers to also purchase larger or more complex new machines when they launch them. And the higher the unit cost of a product, the less willing buyers are to try a completely new product or supplier.

For example, when UpRight and Skyjack entered the boom lift market after having achieved market leading positions with their scissor lifts, they found that persuading their customers to switch from JLG, Genie, Haulotte or Snorkel etc... proved to be a long hard slog, requiring a great deal of persistence. Skyjack eventually overcame the challenge and continues to cement and expand its position, while UpRight never quite managed it for a number of reasons.

In the telehandler market JLG, Liebherr and Bobcat, have also struggled to win a significant share of the European market, in spite of having the strongest brand reputations, excellent product support and all of the direct customer contacts.

And yet... in an increasing number of European markets, aerial lift fleet buyers are already taking large numbers of larger Chinese built platforms such as big Dingli scissors and increasingly its boom lifts. The same applies to LGMG, while Sinoboom is also gaining traction. Even relative newcomers such as XCMG are finding that some buyers are willing to give them a go, such as Dutch international rental company Collé which purchased a large number of its booms including its 80ft models prior to its European launch.

## STRONG MARKET

At the moment all aerial lift manufacturers are busy, with strong order books and long lead times. This has made it easier for alternative suppliers to gain a foothold in the market, however it will be interesting to see what happens when activity slows and it becomes a buyers' market once again, as it inevitably will. Innovation plays an important role of course, and all-electric 4x4 booms have certainly helped Dingli, while ready availability has also been an important factor for most of the newcomers.

## NEW PRODUCT LAUNCHES GATHER PACE

This past year or so has also seen a host of new product launches and new ideas, which looks set to continue in the future.

History has shown that having the 'right product at the right time' is critical and has often changed the market forever. The launch of Honda's 750 Four motorcycle in the late 1960s killed the British bike industry, which took the best part of 45 years to show any sign of recovery. The bike was no more innovative than others at the time, but it had the overall package - good design, good performance and a good price (and it didn't leak oil) effectively ended British bike production almost overnight.

John Grove was convinced that Snorkel was too late to the market in 1977. However, it does not follow that manufacturers that are early into a sector are the most successful or long lasting. Innovation is important but for rental buyers - which take 80 percent of all equipment - a machine that has good performance, is reliable and has good back up is generally far more desirable. It will be interesting to see how the current 37 manufacturers fare over the next few years. ■

The 1969 Honda CB750K  
Four effectively killed  
the British motorcycle  
industry



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# LONG LIVE 'MEGA BOOMS'

"I hope the new Snorkel 2100SJ project shows that going bigger isn't dead," said Ryan Sobotka Snorkel 2100SJ project manager. "There is a lot of development on the electrification of equipment, which is cool - there are a lot of really cool things you can do with electric motors - but there is also an 'old school' side of me that just likes big hydraulics, big motors and big structures, creating something that can take an operator higher and further than they have ever gone before."

**When Ryan Sobotka made this comment the 210ft Snorkel 2100SJ - unveiled at Conexpo 2020 - was the world's largest boom lift, topping JLG's 185ft 1850SJ. Many had thought the JLG - launched in 2014 - would remain the largest for quite some time, given the challenges of transporting anything larger without dismantling. Incumbent manufacturers design capabilities were also being eaten up by efforts to reduce engine emissions, meet changing standards, reduce weight and introduce electric power options. However just six months after the launch of the Snorkel another mega boom was launched at Bauma China - the 215ft Zoomlion ZT68J.**

We should be thankful to those manufacturers that have the courage to invest in new machines for which there is no current market. Over the years such efforts have been the life blood of the crane and aerial lift markets which has helped make work at height or lifting more efficient. We are also suckers for the biggest, longest, heaviest, tallest etc and with the growth of taller and taller structures these monster booms do have a valid place in the sector.

## SURPRISE SURPRISE

Both the Snorkel 2100SJ and the Zoomlion ZT68J were something of a surprise, coming from manufacturers with no pedigree at the very top end of the large boom market - in the case

of Zoomlion it has limited experience of regular sized boom lifts. Even the Snorkel 2100SJ is more than 25 metres higher than its previous largest machine, the 40 metre TB126J so very little, if anything regarding design could be carried over.

## THE BIG CHINAMAN

Zoomlion also has a history of showing record breaking machines at major shows - particularly Bauma China - which do not always make it into series production, and in some cases, are never seen again. However in the case of the 67.5 metre working height ZT68J several have been spotted working and the first was delivered to Chinese sales and rental company Shanghai Lvong Machinery Engineering in October last year. One of its jobs involved work at a petrochemical facility in Shanghai, where it was used to apply rust prevention treatment, while another involved the painting of a new 17 storey - 56 metre high - fire services training complex in Shanghai.

Jason Liu, deputy general manager of Zoomlion Access overseas, said: "Zoomlion is committed to new ways to work, that's why we decided to develop the ZT68J. There is a growing demand for a super-sized boom in China, following the trend of increasing height on buildings like stadiums and airport buildings."

The ZT68J features a five section boom topped by a two section jib with 125 degrees of articulation for a 67.7 metre working height and a maximum



Snorkel 2100SJ



Zoomlion ZT68J

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**JLG**



**ZT68J has a 67.7m working height**



155,176 cubic metres, thanks to a 9.1 metre telescopic jib with 128 degrees of articulation. However, there are several patent pending innovations. While the heavy duty chassis initially looks similar to the X-type chassis on other large booms, it has a mechanism - activated by the press of single toggle switch - that enables the wheels to drive the chassis legs into position while the lift is static without causing tyre scrub. Not only does it extend tyre life and reduce ground disturbance, but also provides a much smoother extension.

For such as big machine - it weighs 36.3 tonnes - the 2100SJ is highly manoeuvrable and includes a fifth 'lateral' steering mode where all wheels turn a full 90 degrees allowing it to move sideways - this in addition to the usual front, rear, crab, and four wheel co-ordinated steering modes. Designed to comply with all global standards, the 2100SJ has a stowed width of 2.5 metres and overall transport length of 14.9 metres with jib stowed.

The boom is said to have 40 percent fewer moving parts and the dual capacity working

envelope is kept really simple, with the jib retracted platform capacity is 454kg unrestricted, switching to 300kg as soon as it is telescoped. In the platform in addition to the main control box, there is a secondary set of mini 'inching' controls on the opposite side facing the work, which include all machine functions other than drive allowing the operator to carry out fine positioning of the platform. It simply folds away when not in use and both control panels include Snorkel Guard entrapment systems. The boom obviously impressed at its launch with three orders placed at the show. The first was sold to Canadian company Mortier en Trémie ABL, while UK-based Hire Safe Solutions ordered the first two units outside of North America. However it would appear that the machines will not be delivered until later this year.

'Mega booms' over 200ft/60 metres are never going to be high volume machines, however the very fact that two new manufacturers have decided to enter the market shows that there may be some development life in the sector yet. ■

outreach of 31 metres with a dual 300/455kg platform capacity. Features include 40 percent gradeability and four wheel drive.

**INNOVATIVE SNORKEL**

Although it has now lost its 'world's largest' title, the 2100SJ incorporates several truly innovative new features that make it so much more than just about its size. The basic specs are impressive - 65.8 metres working height, 30.4 metres outreach and an enormous working envelope said to cover



*The 2100SJ's wheels turn 90° allowing it to move sideways*



*The Snorkel 2100SJ chassis*

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JLG 670SJ



Mecaplus E-SL 17.2

# THE RISE AND FALL OF THE SELF-LEVELLING BOOM

With 37 boom lift manufacturers all looking to differentiate themselves in a congested market, innovation is the key. Some say it is the lifeblood of any business, with companies devoting substantial design time to gain a competitive edge - be it bigger, smaller, lighter, all-electric, low emission etc - and exploit it before it is copied. In the past year or so several boom lift manufacturers have bet on self-levelling as the next big thing.

Perhaps the most notable launch has been JLG's 67ft 4x4 670SJ first seen as a concept five years ago. With production starting last September - initially for North America only - it is now more widely available. The 670SJ includes technology that automatically adapts to slopes while driving at height. While the concept is not new, JLG has created a solution that provides three operating modes and with relatively traditional technology.

One of the long-time pioneers of dynamic self-levelling on boom lifts is the small Spanish company Mecaplus, which developed a line of self-levelling boom lifts for efficiently pruning avenues of trees while working from steep slopes and side verges. It is now looking to take the next big step with an all-electric - 'zero oil' - model in the form of the 50ft Mecaplus E-SL 17.2 articulated four wheel drive self-levelling boom lift, using electric wheel motor drive and electric screw actuators in place of the hydraulic cylinders.

## FINALLY IN PRODUCTION

The JLG 670SJ has evolved significantly since the concept saw first light at Conexpo 2017, with the self-levelling technology automatically adapting to slopes of up to 10 degrees in any direction while driving at full height. Each wheel is mounted on an independent control arm, constantly adjusted by hydraulic cylinders that keep the base machine level. It also has two other operating modes, one to allow manual levelling and another to lower the overall height for travel on steeper side slopes and transport.

The 'advanced control system' continuously receives data from a range of sensors and displays the information on a digital screen in the platform, allowing the operator to see what is going on at ground level while working at height. In addition to its dynamic levelling on the move, the new model offers a working height of 22.3 metres, a maximum outreach of 17.5 metres with



*Matilsa Parma 21D can automatically level on its outriggers*



**Platform Basket RR19/500**

the unrestricted platform capacity of 250kg, or just over 15 metres with the 340kg maximum capacity. Overall width is 2.5 metres, length 10.7 metres and height 2.77 metres, which can be lowered to 2.22 metres for transport. Ground clearance is 330mm and the machine has an all-up weight of 11.5 tonnes.

## ALL-ELECTRIC MECAPLUS

Mecaplus' new machine is totally different in that it has no hydraulics, and as with the well-proven traditional Mecaplus boom lifts the E-SL17.2 - which has a working height of 17.2 metres - dynamically levels while travelling at heights of up to 12 metres even with the boom over the side. Maximum outreach is 7.5 metres at an up & over height of 7.8 metres. The platform capacity is 230kg unrestricted and the wireless controller can be removed from the platform and used as a remote.

The screw actuators are also regenerative, putting power back into the battery pack when descending. The machine has an overall length of 6.2 metres, a width of 2.2 metres and stowed height of 2.25 metres. Total weight is 6,600kg. The unit is on test with production likely to start later this year, depending on how well the test programme goes.

While the all-electric - no hydraulics - concept appears to be coming of age for small scissor lifts, it may prove to be too radical a step at the moment, given the number of actuators required, their geometry and the rugged nature of the work they are used for. It does however shine a light to the future. The design and function of electric 'cylinders' need to become less bulky and more rugged to match up to their hydraulic counterparts. However, they are improving all the time and at some point will be the product of choice.

## TRACKED OPTIONS

This concept of a self-levelling boom has made most progress with the growing market for crawler mounted boom lifts from manufacturers such as Almac with its JT Jibbi series and now Platform Basket which added a tracked self-levelling road rail boom, the 25ft RR9/200 to its



*Almac teamed up with Multitel to develop the Jibbi U-1570 lightweight auto levelling AlmaCrawler*



*The JLG 670SJ is now in production*

road rail self-propelled boom lift range, joining its wheeled models, the popular 40ft RR14/400 and the new 56ft RR19/500. The RR9/200 offers a working height of 9.5 metres, an outreach of up to 4.7 metres with an up & over height of just over four metres with an unrestricted 200kg platform capacity.

Last year Almac teamed up with Multitel Pagliero to develop a new light weight self-propelled AlmaCrawler auto levelling telescopic boom lift, the 43ft Jibbi U-1570, which offers a 15 metre working height with up to 8.4 metres of outreach with 80kg in the 1.4 metre wide platform. Maximum capacity of 250kg is available at an outreach of 5.8 metres. The U-1570 combines a Multitel aluminium boom and AlmaCrawler Bi-Levelling undercarriage, as with other Almac JT boom lifts it includes dynamic 'Pro-Active' levelling allowing the machine to drive at height on slopes or undulating ground of up to 25 percent, with up to 15 degrees of side to side and longitudinal levelling. Its overall weight is less than 2,900kg.

## REAL LIFE WORK - THE TRUE TEST

It will be interesting to see what sort of reception the latest JLG or Mecaplus boom lifts receive when they arrive on site. The key factor will be price and complexity over the achievable rental rate. Will contractors like it enough to pay what is said to be a 20 percent premium for the JLG? One said: "It's a wonderful machine, very clever but I just don't know what to do with it."

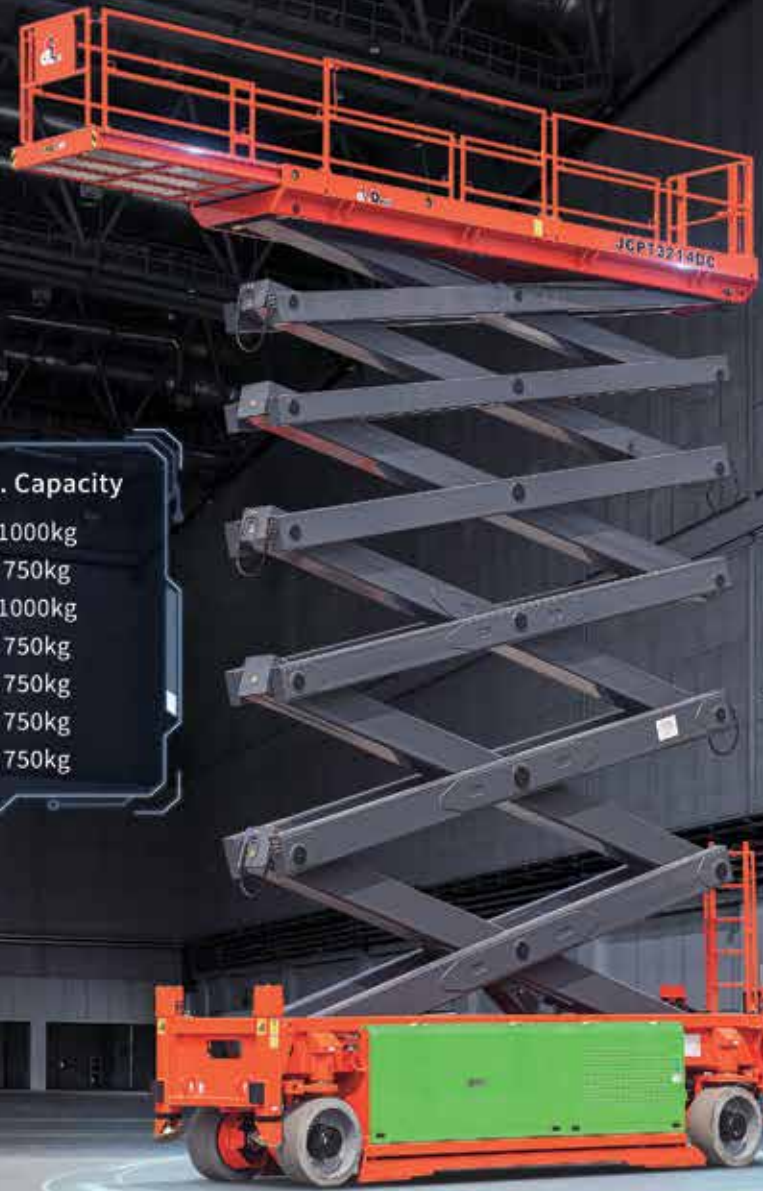
Regardless of this it is good to see innovation such as this make it to market. ■



*Platform Basket RR9/200*

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JCPT2814DC	28m	750kg
JCPT2223DC	22m	750kg
JCPT2212DC	22m	750kg
JCPT1912DC	19m	750kg

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# Vertikal days

2022  
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11th-12th  
May 2022



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# VERTIKAL DAYS IS BACK!

Vertikal Days returns to the East of England Showground, Peterborough on Wednesday 11th and Thursday 12th May - moving back to its more traditional time of the year following the disruption to the past two shows due to the pandemic. Although just eight months since the last show, exhibitors both new and old have turned out in force, many with new model launches making their UK, European or worldwide debuts.

The successful event last September - which attracted more visitors and exhibitors than ever before - was held for the very first time at the new Peterborough venue which proved a popular venue appreciated by both visitors and exhibitors. This year the more than 200 manufacturers or service suppliers are represented, making it one of the most diverse collections of powered access and lifting equipment in the world.

This year's event looks set to attract visitors from both specialist and major contractors, along with utility companies, local authorities and all manner of end users, many of whom have already registered to attend. On top of this will be hundreds of specialist and general rental companies.

## THE ALL-INCLUSIVE SPECIALIST EVENT

Vertikal Days is a specialist event for those who use or work with working at height and lifting equipment - mostly cranes, aerial work platforms and telescopic handlers - attracting interested and motivated visitors along with plenty of industry 'movers & shakers'. It is the quality and relevance rather than quantity of visitors and the relaxed atmosphere that makes this event one not to miss.

As in previous shows, everything during the event is complementary for visitors including admission, car parking, various refreshments throughout the day and a decent lunch.

## THE MARKETPLACE - WORTH A VISIT IN ITS OWN RIGHT

Back in the centre of the showground is the Marketplace. It is not only home to the indoor booths but also the pavilion café and an ideal location to meet up and discuss business. This year the exhibitors located in the Marketplace represent a wider range of equipment and services than ever before - if you use, run or are responsible for any lifting equipment, a visit to the Marketplace is worth your time - regardless of all the equipment lined up outside - and includes everything from software suppliers, to overload systems, advanced load orientation systems, training companies and battery suppliers.

## LUNCH - MAKE A MEAL OF IT

When its time for lunch the Catering Pavilion is located at the top of the showground and serves food from 12.30 to 14.30 each day. It is the perfect place for exhibitors and visitors to 'network' over a meal. The catering includes the free-range hog roast, a barbecue and a range of vegetarian alternatives. For those on a tight schedule there is also a fresh sandwich bar.

With so much to see and so many people to meet, you really need to consider making it a two day visit.

## NETWORKING EVENT

The Networking evening event (ticket required) is also held at the Catering Pavilion and immediate outside area and takes place on the Wednesday

## Lunch Menu

Slow roasted hog  
Quorn pulled pork (v)  
Sage and onion stuffing  
Homemade apple sauce  
Crisp country salad (v)  
Luxury deli style coleslaw (v)  
Rustic new potato salad (v)  
Spierings' artisan cheese board  
**Plus**  
Barbeque - Burgers & Sausages  
Sandwich station  
Refreshments

evening with drinks and canapés served from 18.30, followed by an oriental - and other - buffet and bar. It is a time for exhibitors and guests to catch up, discuss the day's events with good music, food and drink.

## HOTELS

Hotel rooms within a five mile radius are plentiful and a complementary shuttle bus service runs to and from the local hotels before and after the Networking event for those staying for the evening. With so much to see and so many people to meet, you really need to consider making it a two day visit. So without further ado, the following guide provides a round-up of every brand product that is represented, along with what they will have on display.



## SHOW INFORMATION

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

**Show times and dates:**

Wednesday 11th May 10:00 to 17.30

Thursday 12th May 10:00 to 16.00

**How to register**

- Pre-register: [www.vertikaldays.net/](http://www.vertikaldays.net/) visitor and print visitor badge

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# ACCESS EQUIPMENT AND TELEHANDLERS



**Access Platform Sales (APS):** Stand 400/500

APS will show a wide range of equipment including LGMG boom and scissor lifts along with Hinowa spider lifts, including the 22 metre Hinowa TC22 Bi-energy model and a range of new LGMG Lithium battery powered platforms, including the 66ft T20J telescopic and 46ft A14JE articulated boom. The company will also use the event to unveil the 10 metre LGMG M0810JE lithium powered mast boom. The recently launched BoSS PA Lift push around scissor lift will be on display, along with a selection of Wienold high capacity material lifts.

**AJ Access:** Stand 102

See: Zoomlion

**Alfa Access Services:** Stand 403/405

Alfa Access Services - the UK and Ireland sales,



service and parts partners for Teupen, ELS Lift, Omega Solutions and most recently Mecaplus - will have a busy stand. Alfa Electric Utility Vehicles - the UK and Ireland distributor for Pilotcar - will have the P-1000 and PC-2 Lifted electric utility vehicles. Omega Solutions will debut the 408 TS self-levelling tracked scissor lift and ELS will display four all-new scissor lifts - the EL19, EL 8SE, EL12 SE slab electrics and EL 12 RTE electric Rough Terrain model, amongst others. Teupen spider lifts will include the 21 metre Leo 21 GT and 30 metre Leo 30T Plus, sadly the new 50ft Mecaplus E-SL 17.2 no-oil articulated boom, which is currently undergoing trials, will not be at the show, but visit the stand for a chat about the machine - the Alfa team has all the details. Alfa Access also offers LOLER inspections and parts and service for all

types of powered access platforms across the UK.

**Almac/AlmaCrawler:** Stand 503/505

See: CPL

**Alimak Group UK:** Stand 605

Alimak will showcase the Scando 650 and Scando 650 XL construction hoists, TPL 1000 transport platform and the new STS 300 scaffold transportation system. The Alimak TPL 1000 personnel and material transport platform is suitable for all buildings and scaffolds. The new Alimak STS 300 Scaffold Transportation System is available exclusively through PERI. Designed for use with the PERI UP scaffolding system, a crew of two people can install up to 300 square metres of scaffold per day.

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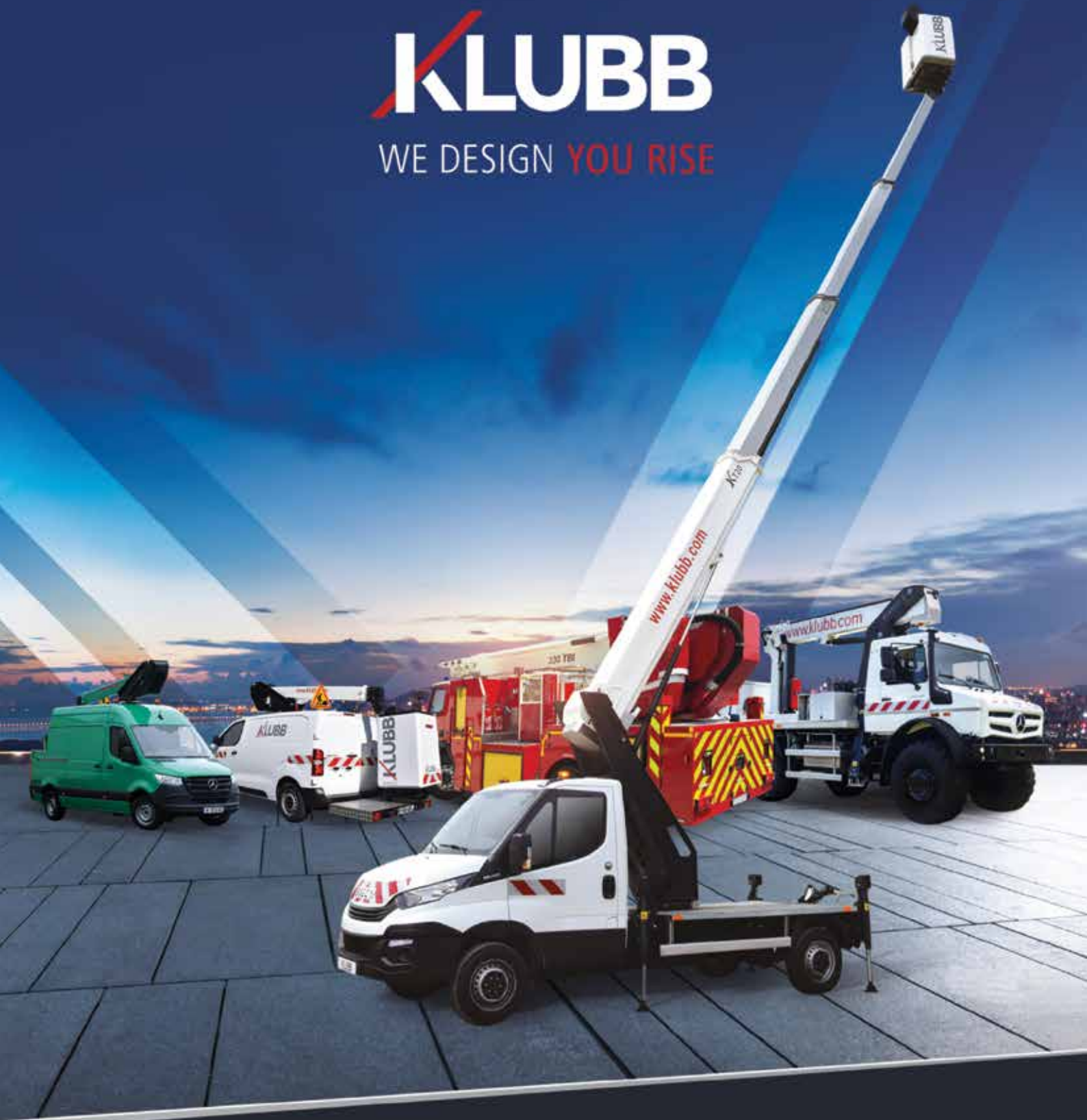
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**ANC Access:** Stand 501

See: RAXTAR

**Avant UK:** Stand 205

Avant will have two recently introduced spider lifts on display - the 13.4 metre Leguan 135 Neo and the updated 19 metre Leguan 190 which is now available for the European market. It will also have an all-electric 900kg/2.8 metre Avant E6 wheel loader which is powered by a 48 volt lithium-ion battery pack said to fully charge in just one hour.



Leguan 135 Neo

**Bluelift:** Stand105/106

See: Snorkel UK

**Böcker UK:** Stand 107

The company's hoist range will be represented by the Super-lift MX 2024 rack and pinion transport platform.



Super-lift MX 2024

**BoSS:** Stand 400/500

See: Access Platform Sales

**Bravi Platforms:** Stand 401

Bravi Platforms will display its latest 4.9 metre Leonardo HD vertical mast lift with dual roll out deck extensions and a 180kg unrestricted platform capacity. The overall weight is 560kg and gradeability 35 percent. Options include telematics configuration with full Canbus connectivity, oil leak protection system and the fully electric drywall lifter attachment Solo-Gyps.



Bravi Leo IPAF

**Bravisol:** Stand 401

See: Bravi Platforms

**Bronto Skylift:** Stand 607

The combination of the 35 metre Bronto S35EM and the Scania L320 low level cab is a first and according to the manufacturer it makes the



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ideal truck mounted platform for working safely in congested city centres, while being quick and easy to deploy on site. The S35EM has an outreach of 29 metres, a maximum platform capacity of 500kg and features the latest Bronto+ control system along with the 'City Safe Window' which improves the chance of detecting children, pedestrians and cyclists while travelling on the road thanks to a suite of the latest cameras and technology that alert the driver to any potential hazards.

**CMC UK:** Stand 316

Spider platform manufacturer CMC will have the new 13 metre and 18 metre all hydraulic machines on its stand, both of which feature Kubota engines, radio controls and auto levelling features. Also on display will be the compact 15 metre S15, the heavy duty S22HD designed for working in extreme environments and the S23 which claims the largest overall working envelope of any road towable spider lift. Pop onto the stand for a chat about the machine's features and benefits.



**CLM Construction Supplies:** Stand 603

CLM will show three Maber rack and pinion hoists - the MB 500, MB C1000 and MB C2000. The MB 500 is available in a single phase version with a 300kg capacity or 500kg with the three phase version. The MB C1000 has a 1,000kg capacity and lift speeds of 12 and 24 m/min and the MB C2000 has a 1,500kg capacity and a maximum anchored height of 150 metres. Largest hoist capacity is two tonnes.



**COMET UK:** Stand 408

See: *Hydraulic Platform Services*

**Cormidi:** Stand 206/311

See: *GGR*

**CPL:** Stand 503/505

CPL plans to show a wide selection from its growing line up of aerial lifts, including several



Klubb van and pick-up mounted platforms. Its Palfinger Platforms range will include a 30 metre P300, 22 metre P220 and 25 metre P250. Also on show will be AlmaCrawler tracked scissors and booms.

**CTE UK:** Stand 101

CTE UK will show two new models including the ultra-narrow Zed20.4HN - the latest 20m CTE platform on a 3.5t GVW chassis with outriggers deployed within the width of the vehicle. The CTE Traccess 270 makes its UK debut and features a wireless remote and the IAPA 2022 award-winning S3 EVO management system onboard diagnostics. It also has the 'coming home' feature and multi-position outriggers providing 14 metres of outreach.



**Dingli UK:** Stand 602

China's leading aerial lift manufacturer will show a selection from its growing product range, including booms, scissors, mast lifts and mast booms, including the 30 metre BT30ERT Lithium powered telescopic boom lift and the all new fully electric - 'No hydraulic Oil' - scissor lift range, represented by the 6.7 metre AMWP7-8100 mast lift. This will be the first opportunity anywhere to see and test these new models in the iron so make sure you do not miss out. Other products on show include the Dingli AC direct electric drive slab scissor lifts.



Vertikal Days  
11th and 12th May 2022

# HIGH LIGHT



## The new Truck Crane AK 42

Rapid working speed and innovative boom geometry

Thanks to its boom profile made of high-strength fine-grained steel the new AK 42 truck crane scores with best lateral stability for heavy loads. With a powerful hydraulic system it works faster than ever, is quickly ready for use and several crane functions can be controlled simultaneously at a constantly high speed. The newly developed telescopic boom

system with 14-m hydraulic jib enables an unprecedented boom geometry. 90° upright positioning of the main boom; 180° straightening of the jib and tower crane function open up new possibilities on the construction site.

**Easy Lift:** Stand 209

See: *Independent Access Sales*

**Elite Access Repairs:** Stand 103

See: *France Elevateur*

**ELS Lift:** Stand 403/405

See: *Alfa Access Services*

**Falcon:** Stand 409

See: *Liftech*

**Faresin:** Stand 206/311

See: *GGR*

**Fraco:** Stand 514

See: *Torgar and XL Industries*

**France Elevateur:** Stand 103

France Elevateur is making its Vertical Days debut with three machines, the first time that the company has exhibited in the UK. They include the popular 12 metre 121 FT van mount with 120kg platform capacity, the 13.4 metre, 200kg capacity 132 F and the 11 metre Ford Transit mounted TOPY 11 a compact urban platform are all worth a closer look.

**Geda:** Stand 502

See: *Mace Industries*

**Genie:** Stand 207/208 and 313

See: *Workplatform and Hitec Lift Trucks*

**GSR:** Stand 600

GSR will show several of its 'PX' articulated truck mounted platforms including the 20 metre B200PX, 24 metre B240PX and the 22 metre B220PXE with end mounted platform offering 120kg capacity at an outreach of 11.25 metres. It will also show the 21 metre B210PXJ with articulating jib. Mounted on a 3.5 tonne Mercedes Sprinter it has a 250kg platform capacity, 10 metres of unrestricted outreach and 450 degrees of slew. The jib is also available now on the 22 metre B220TJ telescopic.

**Hinowa:** Stand 400/500

See: *Access Platform Sales (APS)*

**Hydraulic Platform Services:** Stand 408

Hydraulic Platform Services is now the official Comet dealer for the UK and will launch the new XSPEAR - a fully hydraulic van mounted platform - as well as showing the X14 pick up mounted platform and several van mounted lifts, including the 20 2 10 HQ and the 21 2 9 HQ. Hydraulic



Platform Services also provides a full engineering support for the products.

**Imer:** Stand 301/302

Imer will have various models on display including mini and electric scissors and spider lifts. The 10ft self-propelled Easy Up 5 SP mini scissor which weighs just 500kg and offers a 200kg platform capacity for both indoor and outdoor use. Two other electric scissor lifts will be on the stand - the 9.2 metre working height/200kg capacity IM 7380 and the 12 metre/300kg IM 10090. Maximum capacity is available on both the platform and the extension. Two spider lifts will be on display, the 15 metre/230kg IM R 15 DA articulated model with dual riser and jib, plus the 23 metre/230kg IM R 23 DA.

**Independent Access Sales:** Stand 209

Independent Access Sales (IA Sales) - the Easy Lift spider platform distributor for England - will show several Easy Lift models including the 15 metre RA15, the 18 metre RA180 and the 31 metre RA31.



**International Platforms:** Stand 315

Established during lockdown, International Platforms has quickly built a solid reputation in the used platform market, with staff on hand to answer questions about buying and selling used



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Vertikal Days 2022  
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Stand n°315

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platforms, both in the UK and worldwide. The company is also supporting The Lighthouse Club's 'Help inside the Hard Hat' campaign and you can bid for a fully refurbished 26ft Genie GS2632 scissor lift, which will be on the stand - all proceeds from the sale will be donated to the charity's campaign to tackle poor mental health within the construction and related industries.



Don't miss the all new Metal and Modular Navigator 6, a true zero emissions 13ft platform height/six metre working height push-around scissor lift, totally mechanically operated platform - no electrics or hydraulics - which the company is distributing in the UK and Ireland.

**IPAF:** Stand 619

The display on the IPAF stand will be themed around IPAF's latest safety campaign, 'Don't Fall For It!' which highlights common causes for falls from the platform and how to avoid them. Up to five IPAF members' machines will be displayed. Also on the stand will be the No Falls Foundation - a charity dedicated to preventing falls from height and helping people affected by the consequences of a fall.

**JCB:** Stand 406/506

JCB will have a packed stand including the

recently launched 525-60E 2,500kg, six metre all-electric telehandler, delivering the same performance as conventional diesel powered machines but with zero emissions and a significant reduction in noise levels. Also on show will be the 555-210R 360 degree telehandler with a 20.5 metre lift height, 5.5 tonnes lift capacity, rapid set-up time and all-round visibility improving site safety. JCB Access will show electric scissor lifts with platform heights from 15ft to 45ft. The two smallest models - S1530E and S1930E - have 1.64 metre by 760mm platforms. The 45ft S4550E provides a working height of 15.8 metres.



**Klass:** Stand 515

See Kranlyft

**Klubb:** Stand 503/505

See: CPL

**LGMG:** Stand 200/300

Although LGMG is now working with APS it has its own presence at the show and will display a range of its models including slab electric scissors, heavy duty and Rough Terrain scissors and boom lifts. The new product launch is the 10 metre M0810JE lithium powered mast boom.

**Liftech UK:** Stand 409

The new independent aerial lift dealer represents Falcon Lifts, Palazzani spider lifts and GSR truck mounted platforms across the UK and Ireland. It will have several new models on show including the 43 metre Palazzani XTJ 43+ and 32 metre Palazzani XTJ 32 and the 25 metre TZX 250 and from GSR a 20 metre B200PX truck mount. The company can also inspect, maintain, repair or completely overhaul equipment.



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**Maber:** Stand 603

See: CLM Construction Supplies

**Mace Industries:** Stand 502

Portable conveyor supplier and Geda distributor Mace will demonstrate a wide range of Geda hoists including the portable Ladder hoist and Mace's own lightweight Bumpa roof tile hoist. Also on show will be the lightweight 200Z, the versatile 500ZZP hoist and the 2 PK tower crane operator hoist. The heavy-duty Multilift P12 - an enclosed hoist for both goods and personnel with a load capacity of 1500kg/12 people - has a maximum height of 150 metres.



Geda 500ZZP

**Magni Telescopic Handlers:** Stand 601

Magni will show a range of Fixed and Rotating/360 degree telescopic handlers with

Magni RTH8.25



attachments. Included on the stand will be the heavy duty, six tonne/10 metre TH6.10 which made its debut at last year's event and features the same technology as its sophisticated 360 degree machines. Other models on the stand will be the fixed frame 5.5 tonne/14.8 metre TH 5.5.15 and the 360 degree, six tonne/38.9 metre RTH 6.39.

**Manitou UK:** Stand 613

Manitou UK returns to Vertikal Days with products from its brand new MRT Rotating Telehandler range with the all-new 16 metre/4,500kg MRT 1645 and 26 metre/6,000kg MRT 2660. The aerial lift display will feature all electric ATJ booms including the new 60ft all electric 200 ATJ E, the 10 metre/100 VJR mast boom, the 33ft Man'Go 12 and 46ft 160 ATJ with Stage V engine.



Manitou 100 VJR

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**Mecaplus:** Stand 403/405

See: Alfa Access Services

**Metal & Modular:** Stand 315

See: International Platforms

**Multitel Pagliero:** Stand 509

Showcasing its 3.5 tonne range of truck mounted platforms, Multitel will exhibit its 19.9 metre HX 200 EX and 25.1 metre MZ 250 models. It will also have one of its larger truck mounted platforms on show, a 45 metre MJ 450 specified for the UK market and mounted on a 26 tonne chassis, it offers a maximum outreach of 32.3 metres with a platform capacity of 120kg, 30.3 metres with 300kg and 26.7 metres with its maximum 500kg capacity. The 25 metre SMX 250 spider lift will complete the stand line-up.

**No Falls Foundation:** Stand 619

See: IPAF

**Niftylift:** Stand 317

Niftylift will highlight its range of Gen<sup>2</sup> Stage V Hybrid booms and all-electric articulating boom lifts, with a particular focus on its latest technology, including its Niftylink telematics and lithium-ion battery power and direct electric drive. The company's diesel powered units are now all approved to run on HVO fuel, which results in a 90 percent reduction in CO2 emissions.

**Omega Solutions:** Stand 403/405

See: Alfa Access Services

**Palazzani:** Stand 409

See: Liftech UK

**Palfinger Platforms:** Stand 503/505

See: CPL

**Pilotcar:** Stand 403/405

See: Alfa Access Services

**Pinnacle Platforms:** Stand 507

See: Sinoboom

**Platform Basket:** Stand 407

See: Promax Access

**Promax Access:** Stand 407

Platform Basket's UK distributor Promax Access will show several tracked spider lifts including the 33 metre Spider 33.15 and 10 metre 20.95 Hybrid. Hybrid power packs are available on the entire product range, along with an onboard diagnostic display. Vertical Days will also be premier display of the innovative compact and lightweight tracked 25ft self-propelled RR9/200 Road-Rail platform, which can be transported on a 3.5 tonne trailer and then drive onto the tracks by rotating its chassis, and self-level, making it a perfect machine for carrying out urgent or remedial work on the rail ways. This machine is a must see.

**RAXTAR:** Stand 501

RAXTAR provides a range of passenger and material hoists, common towers and software solutions for the high and mid-rise market. Its UK operation, ANC Access, runs a full service rental fleet of RAXTAR equipment. New products on show include the RX SMART Series construction



Multitel MJ 450



Platform Basket RR/200



Nifty HR17N



hoist with a payload of 2,300kg and lift speed of 36 metres a minute. Other features include quiet operation, standard C-gate and programmable landings with hoist calling system.

**Ruthmann:** Stand 410/412

See: Versalift

**SAEclimber:** Stand 201

Mastclimber and hoist manufacturer SAEclimber will show the heavy duty E30 passenger and materials hoist lift. Available in single or twin cage configuration with each having a 3,000kg payload. Maximum anchored height is 250 metres, maximum elevation speed is 60 metres per minute and each cabin measures 4.5 x 1.5 x 2.1 metres.



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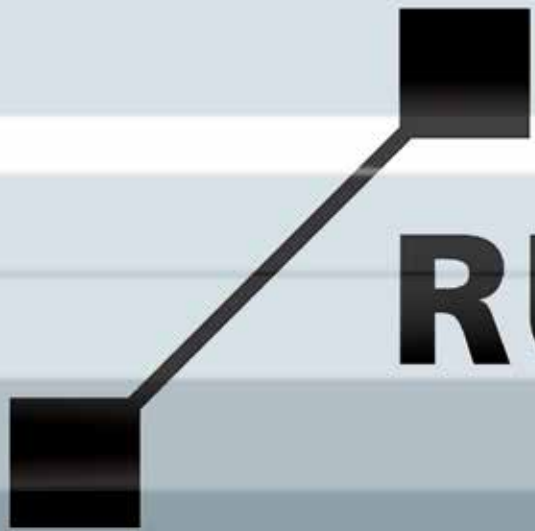
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**Sinoboom:** Stand 507

Sinoboom, together with its UK partner Pinnacle Platforms will show several new models from its rapidly growing range of fully electric scissor and boom lifts, along with a new mast boom. Three models making their European debut include the 66ft TB20EJ Plus battery powered straight telescopic, the 40ft 4069RE compact electric Rough Terrain scissor lift and the 60ft all electric AB18EJ articulated boom. Also on show will be the new 10 metre ML10EJ mast boom, while the compact scissor lift range will be represented by the 19ft 1932 ME and 13ft 1330 SE.

**Skyjack:** Stand 100

Vertical Days will be the first opportunity for Skyjack to show off its the full line up of new Skyjack next generation mast type lifts, high capacity articulated boom lifts and new scissor lifts.

The new direct AC electric drive 12 and 16ft SJ12 E/16 E mast type lifts offer working heights 5.6 and 6.8 metres respectively. The new drive system is said to provide up to 30 percent duty cycle improvements, smoother operation and consistent torque, with a 70



*The new AC electric drive SJ16E*

percent reduction in hydraulic hose connections. The SJ12E and SJ16E are among the first Skyjack products to feature the company's ECO label offering a 15 percent operational carbon saving compared to previous models.

**Snorkel UK:** Stand 105/106

Snorkel will highlight several models from its growing range of lithium ion battery powered aerial lifts, both booms, scissor lifts and the lithium Speed Level. In addition, it will display it's all-electric 2,500kg/six metre SR626E telehandler. Sadly, the all new 210ft 2100SJ straight boom lift will not make it to the show this year. Snorkel UK is also a Bluelift-Ruthmann dealer for the UK.

**Socage:** Stand 204

Italian aerial lift manufacturer Socage continues to upgrade its range of truck mounted platforms with the addition of its Speed automatic levelling system. Two models showcasing this technology will include its 19.3 metre/230kg capacity nine metre outreach articulated forSte 20D Speed and the 19.7 metre/230kg capacity 12 metre outreach telescopic 20TJ Speed with jib. Both models will be mounted on 3.5 tonne Iveco Daily chassis.



*Versalift VTL 135*



*Snorkel SR626E and Speed Level*

**Teupen:** Stand 403/405

See: Alfa Access Services

**Torgar and XL Industries:** Stand 514

Having won the IPAF IAPA innovation product of the year award with its PL-20 EXT 2V Modular Transport Platform, Torgar is unveiling two UK debuts - the T3-25 modular goods hoist and the versatile PL-05 Transport Platform.



*Torgar T3-25*

**Versalift UK:** Stand 410/412

The Versalift stand will host two market leading brands Versalift and Ruthmann, the company taking over Ruthmann distribution for the UK and Ireland in April following the acquisition of Ruthmann last year. The Versalift range will be represented by the new 13.5 metre VTA-135 pick-up mounted lift. The Ruthmann truck mounted line up will be represented by the 33 metre T 330 XS, the 23 metre Ecoline 230 truck-mounted platform with 17 metres of outreach.

**Workplatform:** Stand 207/208

Genie's UK dealer Workplatform will show two of its latest direct electric drive micro scissor lifts -



*Genie GS-1932m*

the 14ft GS-1432m and the 19ft GS-1932m with working heights of 7.55 metres. Also on show will be the 32ft GS-3232, 40ft GS-4046 and 46ft GS-4655 E-Drive models featuring Genie's new direct AC electric drive motors. A number of Superlift Advantage SLA material lifts will also be on the stand as well as a fully equipped mobile service engineer van. When on the stand ask about the company's plans to launch a new articulating boom lift.

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The XCMG XGS28E



Zoomlion ZA45J

**XCMG:** Stand 202/203

XCMG Aerial Work platforms is making its Vertical Days debut and will show a range of scissor and boom lifts which extend up to 185ft with a working height of 58 metres. The company says that it will use the show to unveil several new models. Making their first appearance in the UK will be the 86ft XGS28E and 66ft XGS22E booms

as well as the new range of electric slab scissors with working heights from six to 16 metres.

**XL Industries:** Stand 514

See: *Torgar & XL Industries*

**Zoomlion:** Stand 102

Another new exhibitor Zoomlion Access will

display 12 aerial work platforms and include the launch of several brand new all-electric boom lifts such as the 88ft ZT26JE telescopic boom lift, alongside the 32ft ZA10RJE and ZA20JE electric articulated booms. Several slab electric scissor lifts from 15ft to 45ft will also be making their debut as well as the 53ft ZS1623RT Rough Terrain and the 20ft ZS0610C track mounted scissor lift. All the electric scissor lifts on display will include the manufacturer's latest electric E-Drive system.

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# CRANES



Marchetti CW25.35

**AGD Equipment:** Stand 213/214

AGD offers telescopic crawler cranes from both Sennebogen and Marchetti, but its main exhibit will be the global launch of the new all electric and hybrid versions of its 25 tonne Sherpina telecrawlers. Also making its UK debut will be a 40 tonne truck mounted crane from Marchetti. The company will also have displays representing its piling rigs and equipment as well as its service and breakdown support including its new paint shop.

**AL-lift:** Stand 603

See: *CLM*

**Artic Crane:** Stand 611

See: *City Lifting*

**BG Lift:** Stand 206/311

See: *GGR*

**Böcker UK:** Stand 107

Böcker UK will host the worldwide launch of the brand-new AK 42 truck crane. The crane features improved working speed and stability for high loads, a 180 degree jib and tower crane function. Also on show is a range of cranes including its largest truck crane - the AK 52 on a four axle carrier - with a maximum capacity of 12 tonnes and a 52 metre main boom (with the option of a 55 metre boom), the AK 46/6000 mounted on a three axle carrier and the crawler mounted RK 36/2400.



Böcker AK 42

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**509**

**The Artic Raptor 85**



**City Lifting:** Stand 611

UK crane sales and rental company City Lifting is hoping to exhibit the latest version of the five tonne Raptor 85 articulated tower crane from Artic Cranes. Offering a tiny 3.9 metre out of service radius, features include high working speeds and low energy consumption. The company is also the UK distributor for Comansa tower cranes and hopes to exhibit one of the latest developments from the Spanish manufacturer.

**Comansa:** Stand 611

See: City Lifting

**Cormidi:** Stand 206/311

See: GGR

**Demag:** Stand 113/115

See: Tadano UK

**Falcon Tower Crane:** Stand 612

Falcon Tower Crane Services is the largest tower crane supplier in the UK with cranes ranging from the two tonne Potain HD16 self erector to the 64 tonne Jaso J780PA.64 luffing jib crane. On its stand will be three Potain Igo self-erecting tower cranes - the Igo T85A, the Igo T130 and the Igo 50. Be sure to visit the stand to discover more.

**Foster Cranes:** Stand 511/512

UK crane sales and service company Foster Cranes will be showing the first 60 tonne Sany SCE 600TB crawler crane to arrive in the UK alongside its Hoeflon and JMG product lines. The

**The Sany SCE 600TB**



new Sany crane features a five section 46 metre full power boom, with twin telescope cylinders and cable synchronised boom, topped by a 9.2 to 16 metre bi-fold swingaway extension for a maximum tip height of almost 63 metres at which it has a capacity for 2.7 tonnes at a radius of 12 metres.

**Galizia:** Stand 206/311

See: GGR

**GGR:** Stand 206/311

As usual, GGR will have a stand packed with a wide array of the products it distributes from Unic spider cranes to Sunward mini crawler cranes, Galizia pick & carry cranes, BG Lift and Almac multi loader tracked carrier and crane, as well as Faresin telehandlers and all manner of glass handling machinery, vacuum lifters and restricted access lifting machines.



GGR pick & carry crane

**Glasboy:** Stand 206/311

See: GGR

**Grove:** Stand 110/111

See: Manitowoc

**Hoeflon:** Stand 511/512

See: Foster Cranes

**Jaso:** Stand 612

See: Falcon Tower Crane

**JMG:** Stand 511/512

See: Foster Cranes

**Klaas:** Stand 515

See: Kranlyft

**Kobelco:** Stand 112

Kobelco Construction Machinery Europe Cranes Division (UK) will show its latest 100 tonne capacity, Stage V/Tier 5 compliant CKE900G-3 lattice boom crawler crane, painted in Q Crane Hire's colours prior to delivery after the show. Visitors will also be able to access information regarding Kobelco's Used Cranes Service which connects buyers and sellers of used crawler cranes, while members from its sales, service and spare parts departments will be on hand to discuss any requirements and technical queries.

**Kranlyft:** Stand 515

Kranlyft will display a six tonne capacity Klaas K950RHX with maximum working radius of 36 metres with 500kg and 28 metres with 1,000kg. Hybrid power for the crane operation is standard. Also on the stand will be the Maeda CC423 and CC985 mini crawler cranes. All Maeda's from the CC range are delivered with EU Stage V compliant engines. The Maeda MC305CB-3 battery crane will also be on the stand, the crane is capable of operating for full working day on a fully charged battery pack and can be re-charged while operating operation. The charging time with a 200+ volt AC outlet is three hours to 80 percent or four and a half hours to reach 100 percent.

Maeda CC985



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**Liebherr**  
**LTM1150-5.3**

**Liebherr GB:** Stand 615/618

With the largest stand at the show, Liebherr will display a wide selection of cranes including its latest All Terrains such as the all new 150 tonne, five axle LTM 1150-5.3. Mobile self-erecting tower cranes will be represented by the MK140, while the lattice crawler crane on show will be the 110 tonne LR 1110, which can be ordered with electric power. The stand will also include the company's most recent technology and innovations including digitalisation and the latest telematics available on all new mobile cranes.

**Maeda:** Stand 515

See: Kranlyft

**Manitowoc Cranes:** Stand 110/111

Manitowoc plans to show the five axle Grove GMK5250XL-1 All Terrain crane. The 250 tonner was launched at bauma 2019 and is already popular in the UK with several already working in a number of rental fleets. Its 78.5 metre main boom claims to be the longest main boom of any five axle All Terrain, while offering a relatively compact footprint and good manoeuvrability, making it a good machine for congested sites. Also on the stand will be a Potain self-erecting tower crane from Ladybird Crane Hire.

**Marchetti:** Stand 213/214

See: AGD Equipment

**National Crane:** Stand 110/111

See: Manitowoc



**GMK5250XL-1**



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Palfinger PCC 115.002

**Palfinger UK:** Stand 304/305

UK distributor Palfinger UK not only sells and supports the Palfinger loader crane line, but also installs them and custom bodies on customer chassis for all manner of lifting applications. The company will use Vertical Days to launch its new crawler mounted PCC 115.002 in the UK which can lift up to 30 tonnes and has a maximum reach of 23.1 metres. Features include the ability to travel on gradients up to 60 percent with a high degree of self-levelling ability. It can pick & carry loads in crawler mode and can tow a trailer of up to 10

tonnes. If needed it can be run solely on electric power for work in low emission zones or indoor settings. This is a must-see machine.

**Potain:** Stand 110/111

See: *Manitowoc*

**PV-E Crane:** Marketplace MP38/40

Dutch crane company PVE is developing a line of true battery powered electric crawler cranes that introduce a number of innovations making them truly autonomous - See Watson & Hillhouse.



PV-E Crane

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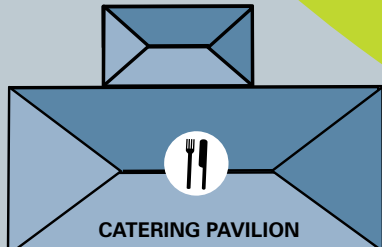
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The following list includes all exhibitors and the brands that they represent attending this year's event.



EXHIBITOR & BRAND LIST					
Aberdeen Web	MP17	Genie	207/208, 313 & 315	Palfinger Platforms	503/505
Access Platform Sales (APS)	400/500	G-Force	MP31	Palfinger UK	304/305
AGD Equipment	213/214	GGR	206/311	Paragon Bank	215A
AJ Access	102	Glasboy	206/311	Pegasus Batteries	MP7
Ainscough Training Services	MP36	Green Pin	MP4	PERI	104
Alfa Access	403/405	GRIPPS	MP46/47	Petzl	MP46/47
Almac/AlmaCrawler	206/311 & 503/505	Grove	111	Pilotcar	403/404
Alimak Group UK	605	GSR	409 & 600	Pinnacle Platforms	507
Alimats	216	GS Yuasa Pro-Spec	MP10	Platinum International	MP23
Alliance Automotive Group	MP23	Hako	313	Platform Basket	407
AMCS Technologies	MP12/13	Hoeflon	511/512	Point of Rental	MP9
ANC Access	501	Hinowa	400/500	Potain	111
APS	400/500	Hitec Lift Trucks	313	Predator	MP20
ARESTA	MP46/47	Hydraulic Platform Services	408	Promax Access	407
Artic Cranes	611	Hyster	313	PV-E Crane	MP38/40
Avant UK	205	Hytorc	MP30	RAXTAR	501
Battery Service Hub	MP7	IMER	301/302	RaycoWylie	MP21
BG Lift	206/311	Independent Access Sales	209	Red Rooster Lifting	MP6
Big Change	MP11	InspHire	MP22	Rivertek	211/312
Bluelift	105/106	International Platforms	315	Rolls	MP5
Böcker UK	107	IPAF	619	Ruthmann	410/412
BoSS	400/500	JCB	315 & 406/506	SAEClimber	201
Bravi Platforms	401	JLG	313	Safelyliftinggear	MP31
Bravisol	401	JMG	511/512	Sage	MP11
Briggs	313	Kato	211/312	Sany	511/512
Brilliant Ideas	216	KITO	MP6	Sapphire	MP29
Bristol Initiative Trust	Entrance	Klaas	515	Sennebogen	213/214
Bronto Skylift	607	Klubb	503/505	Shield Batteries	MP10
Capja	MP18	Knipex	MP46/47	Shuttlelift	111
Certora Training	MP44	Kobelco	111/112	Sinoboom	507
City Lifting	611	Krahn & Bühne	MP35	Skyjack	100
CLM Construction Supplies	603	Kranlyft	515	SLG	MP31
Close Brothers Asset Finance	309	Lasalign	215B	Snorkel	105/106
CMC UK	316	Latch & Batchelor	MP42	Socage	204
Columbus McKinnon	MP4	Leguan	205	Spierings	109
Comansa	611	Leoch Battery UK	310	Sterling batteries	MP10
Combilift	313	LGMG	200/300 & 400/500	Sterling Group	402
COMET	408	Liebherr GB	615/618	Sunward	206/311
Cormidi	206/311	Liftech (UK) Ltd	409	Tadano	113/115
CPA	614	LiftinGear UK	MP31	Tele Radio UK	MP39
CPL	503/505	Lifting Gear UK	MP43	Tensology	MP37
Cranes & Access	MP35	Lift-Tex Heavy Lift Slings	MP4 & MP45	TEO	MP6
Cranes Today	MP28	Load Monitoring Systems	MP24	Teupen	403/404
Crown Batteries	MP10	Maber	603	The Crosby Group	MP4
CTE UK	101	Mace Industries	502	Top Service	MP16
DC Battery Technologies	MP20	Maeda	515	Torgar	514
DC Power	MP20	Magnetek	MP14	Torquer	MP15
Demag	113/115	Magni Telescopic Handlers	601	Total Source	510 and MP19
Dingli Machinery UK	602	Manitou	613	Tracked Carriers	314
Durham Lifting	MP4	Manitowoc	110/111	Trackunit	MP41
Dynaset	MP3	Marchetti	213/214	Trojan Batteries	MP20
Easy Lift	209	MCS Rental Software	MP34	TVH	510
Ecobat Battery	MP5	Mecaplus	403/405	TVH University	MP19
Elite Access Repairs Ltd	103	Metal & Modular	315	UNIC	206/311
ELS Lift	403/404	Microsoft Partner (Gold)	MP11	Universal Crane Mats	210
EMCE	MP6	Modulift	MP25	Valla	512
Extreema	MP45	MOUVERS SRL	MP8	Valvoline	MP23
Falcon Lifts	409	Multi-Sec	MP4	Verope	MP42
Falcon Tower Crane	612	Multitel Pagliero	509	Versalift United Kingdom	410/412
Faresin	206/311	MV Balmoral Trust	Entrance	Vertikal Press/Media	MP35
Foster Cranes	511/512	Myerscough College	MP1	Verton	MP6
Fraco	514	My Future My Choice	Entrance	Watson & Hillhouse	MP38/40
France Elevateur	103	National Crane	111	Weinold	400/500
Fronius	MP5	Niftylift	317	Wolffkran	608/609
Galizia	206/311	No Falls Foundation	619	Wolff Onsite	608/609
Gebuwinn	MP6	Nolim bv	513	Workplatform	207/208
Geda	502	Omega Solutions	403/404	XCMG	202/203
GemOne	510, MP19 & MP29	Ornyx	MP29	Xenith Heights	MP46/47
		Outriggerpads	510 & MP19	Xero	MP11
		Palazzani Industrie	409	XL Industries	514
				Zoomlion	102

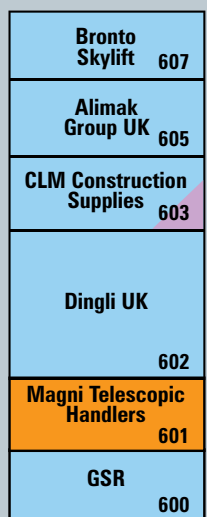
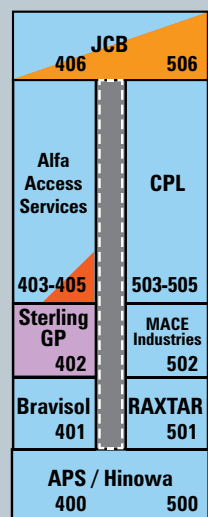
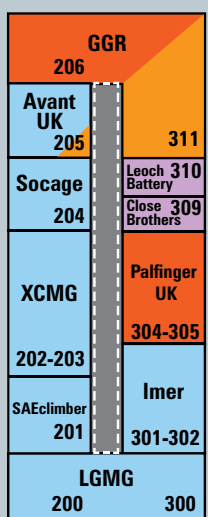
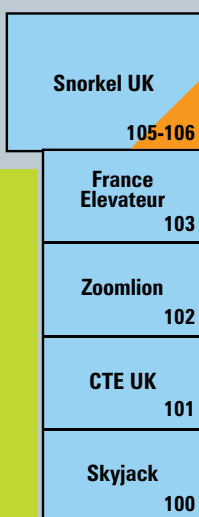
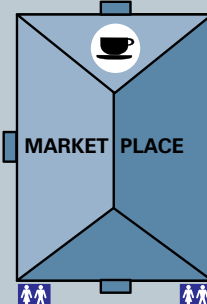
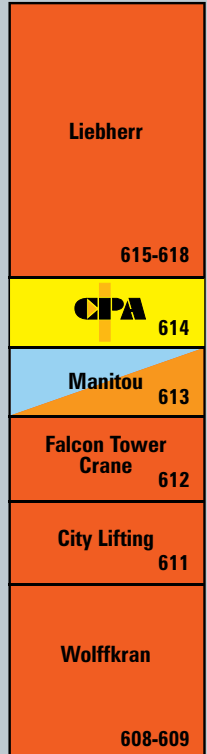
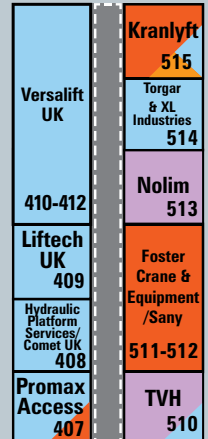
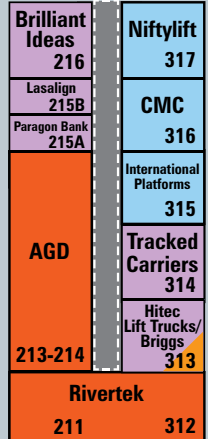
# Outdoor Site Plan



No Falls Foundation



STAR SHADE



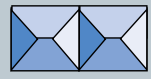
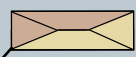
**KEY**

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

Exhibitor Parking



Exhibitors Galley



Office/Operations

My Future My Choice

Visitor Parking

# SIMPLY TRANSFORMED

#100

Skyjack will be featuring its next generation vertical masts, high-capacity articulating booms, and a selection of DC, compact and RT scissors.

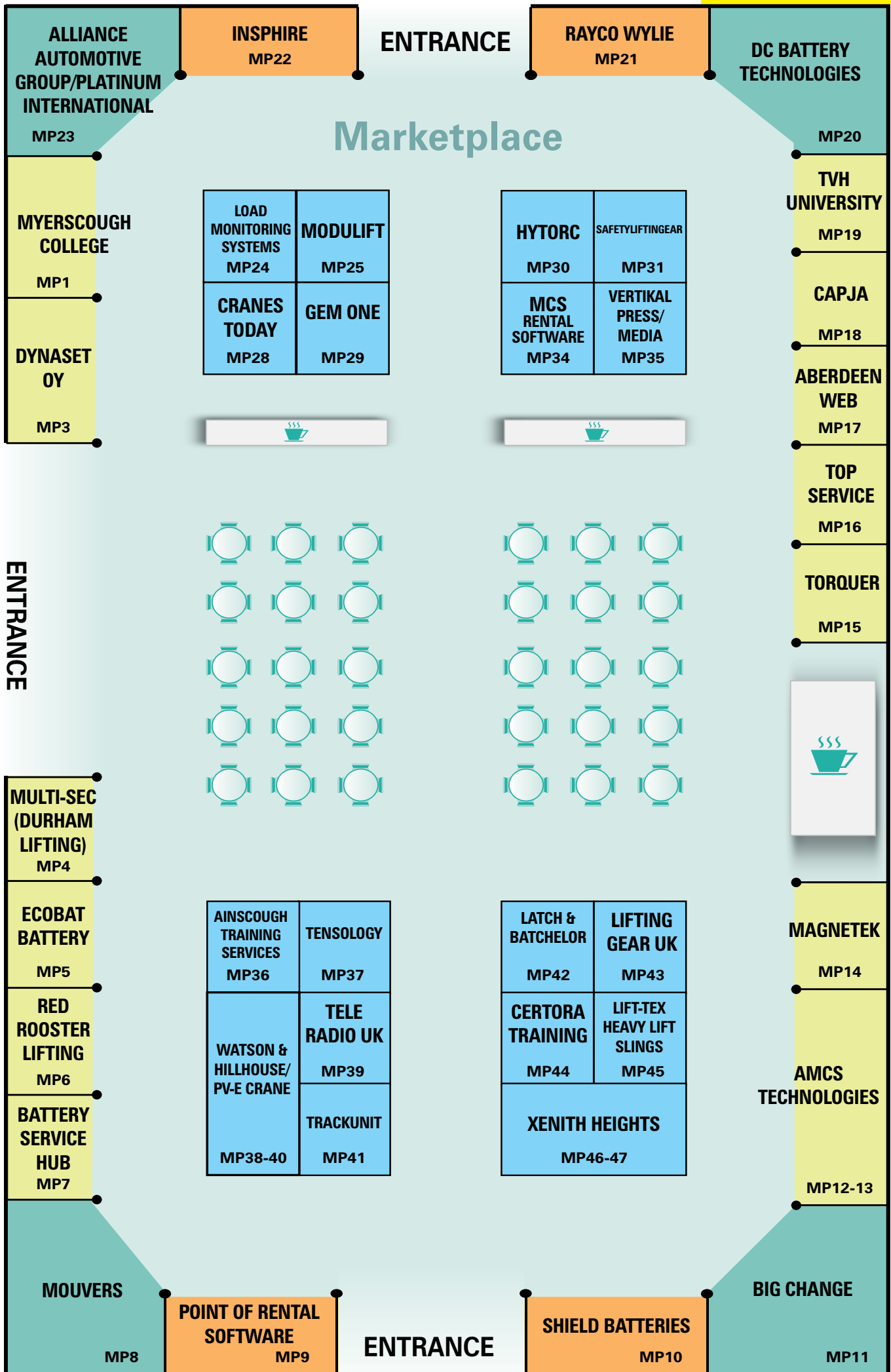
Visit us at Vertikal Days for more information on the full line-up of Skyjack products and ACCESSORYZERS™.



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Power up your high reach equipment with lithium technology. Snorkel is one of the only manufacturers to carry a full range of lithium-ion battery-powered aerial lifts and telehandlers with 4WD. The clean and quiet diesel alternative delivers zero emissions with zero battery maintenance. Highly efficient batteries offer long duty cycles between charges for lasting performance.



**NEW**

ROUGH TERRAIN ARTICULATING BOOM LIFT

NARROW ROUGH TERRAIN SCISSOR LIFTS

COMPACT ROUGH TERRAIN SCISSOR LIFTS

SPEED LEVEL LIFTS

COMPACT ROUGH TERRAIN TELEHANDLER

**A46JRTE**

**S2255RTE**

**S2755RTE**

**S2770RTE**

**S3370RTE**

**S3970RTE**

**SL26RTE**

**SL30RTE**

**SR626E**

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REDUCTION

**62%**  
NOISE  
REDUCTION

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ELECTRIC FAMILY  
FROM 6.79M - 16.3M

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Cage Size 1500 x 1300mm

Lifting Speed 20 m./min

## MB C 1000/150

Capacity 1000kg

Cage Size: 1400 x 1750mm

Lifting Speed: 12/24m./min



## MB C 2000/150

Capacity 2000Kg

Cage Size 1500 x 3200mm

Lifting Speed 12/24 m./min

**Single Mast**

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**Kato CR-200Rf**



**Spierings SK597-AT4 eLift**



**Tadano Range**

**Rivertek:** 211/312

As the European distributor of Kato, Rivertek will showcase several cranes including the latest 20 tonne CR-200Rf City type All Terrain sold to County Lifting. Other products are likely to include the 13 tonne CR-130Rf and 25 tonne CR-250Rv City-type cranes. Both cranes feature a hydraulic luffing jib, a searcher hook and two winches as standard.

**Sany:** Stand 511/512

See: Foster Cranes

**Sennebogen:** 213/214

See: AGD Equipment

**Shuttlelift:** Stand 110/111

See: Manitowoc

**Spierings:** Stand 109

Spierings - pioneers of the mobile self-erecting tower crane concept - continues with its all electric models such as the City Boy and now the electric powered six axle SK1265-AT6 eLift which will be on the stand. The zero emission eLift system has two operating modes - electric and hybrid - which can operate from power sources as low as 11 amps up to a full 32 amp outlet.

**Sunward:** Stand 206/311

See: GGR

**Tadano UK:** Stand 113-115

Following the full merger of its Demag and Tadano crane operations, Tadano has rationalised its product line with all-new nomenclature and added several new models such as the all new two axle, 40 tonne AC 2.040-1 making its global show debut. With a further 15 new models in the pipeline there is likely to be plenty to see on the stand, including the 60 tonne three axle AC 3.060-1, the 450 tonne seven axle AC 7.450 and the 80 tonne GTC 800 telescopic crawler. This may also be the opportunity to see the company's e-Pack remote electric power pack.

**Unic:** Stand 216/311

See: GGR

**Valla:** Stand 511/512

See: Foster Cranes

**Watson & Hillhouse/PV-E Crane MP38/40**

Watson & Hillhouse - the recently appointed exclusive UK and Ireland dealer for PV-E Crane - will use the show to launch its new, fully electric, battery powered crawler cranes. The



**PV-E Crane**

zero emission cranes can run for a full eight hour shift before requiring a re-charge. Batteries are removable and can be re-charged off site if on site charging facilities are not available. The company will offer both lattice and telescopic boomed models from 80 to 160 tonnes capacity for the lattice and 70-120 tonnes for the telescopic.

**Weinold:** Stand 400/500

See: Access Plant Sales

**Wolffkran:** Stand 608/609

Tower crane manufacturer Wolffkran will show its popular Wolff 133 B hydraulic luffing jib crane and its new six by six metre TV 60 tower section for freestanding tower heights with the Wolff 1250B of more than 100 metres. The fully functional 1250 B model will also be on the stand for the next round of the Lifting Lounge Challenge with the first place prize a trip to bauma 2022 including one night's accommodation. Wolff Onsite will be able to advise on a full range of lifting and accessory requirements from initial site planning, set up, logistics and training.



**Wolff 133B**

OTHER EQUIPMENT



Aberdeen Web

In addition to the displays of new machines, this year's event includes a myriad of suppliers showing off the latest in technology, attachments, ancillary products and a wide range of services. For equipment users, specifiers and owners this part of the show can be the most productive.

**Aberdeen Web:** Stand MP17

Since 1992 Aberdeen Web has manufactured soft lifting slings made from polyester webbing or yarn along with ratchet systems. It is also the North East's largest webbing sling and Scotland's only round sling manufacture as well as making complete ratchet systems. The company will exhibit one of its massive 250 tonne heavy lift round slings as well as some HMPE round slings.

**Ainscough Training Services:** Stand MP36

Ainscough Training is one of the UK's largest independent, specialist training providers. It delivers a wide range of CPCS, non CPCS and bespoke courses and NVQs. Covering categories such as the Appointed Person, Crane Supervisor, Slinger Signaller & Mobile Crane, it allows employers to ensure the workforce is up to-date with all relevant legislation and codes of practice. Its NVQ portfolio also has additional categories for the Telehandler, Crawler Crane & Compact Crane. Training is delivered at its dedicated training facilities in the North West and Central London or on site.

CP Construction Plant  
CS Competence Scheme

**Alimats:** Stand 216

See: *Brilliant Ideas*

**Alliance Automotive:** Stand MP23

See: *Platinum International*

**AMCS Technologies UK:** Stand MP12/MP13

French safety device manufacturer AMCS technologies produces anti-collision and zoning products for lifting equipment. This year it will show the DCS 61-S anti-collision system for both tower and mobile cranes when working together on the same site. The company also offers a new generation of complementary products including Supervisor Sup 61, IoT Lifting Web and APP - anti-collision systems for mobile and crawler cranes, windspeed indicators, day and night aviation lights and cameras.





**Vertical days** Come and visit our stand! **MP5**

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**ARESTA:** Stand MP46/47

See: *Xenith Heights*

**Battery Service Hub:** Stand MP7

With the continuing crisis in the supply of flat plate monoblocs from North America, Battery Service Hub provides a solution with its range of Pegasus tubular monobloc batteries. Visit the stand to discuss availability as well as the ability to deliver 1200 cycles to 80 percent DOD - as opposed to 700 cycles - resulting in a much lower cost per cycle.



**BigChange:** Stand MP11

BigChange is a Job Management Platform that helps field service businesses take more control

of operations by bringing customer relationship management (CRM), job scheduling, live tracking, field resource management, financial management and business intelligence into one simple to use and easy to integrate platform. BigChange eliminates inefficient paper-based processes and the complexity of multiple different technology systems.

*Big Change*



**Brilliant Ideas:** Stand 216

The company will highlight its Alimats range of interlocking aluminium outrigger mat system. Modules weigh between 25kg and 48kg with sizes from 0.67 to 8.07 square metres, making them handleable for two people. Its new cover mats are used to create a rapid temporary cover over holes on construction sites or industrial environments. It also offers a safety net recovery system, levelling shims and a lightweight Slapp clamp for safely lifting palletised materials - such as bricks - by crane.



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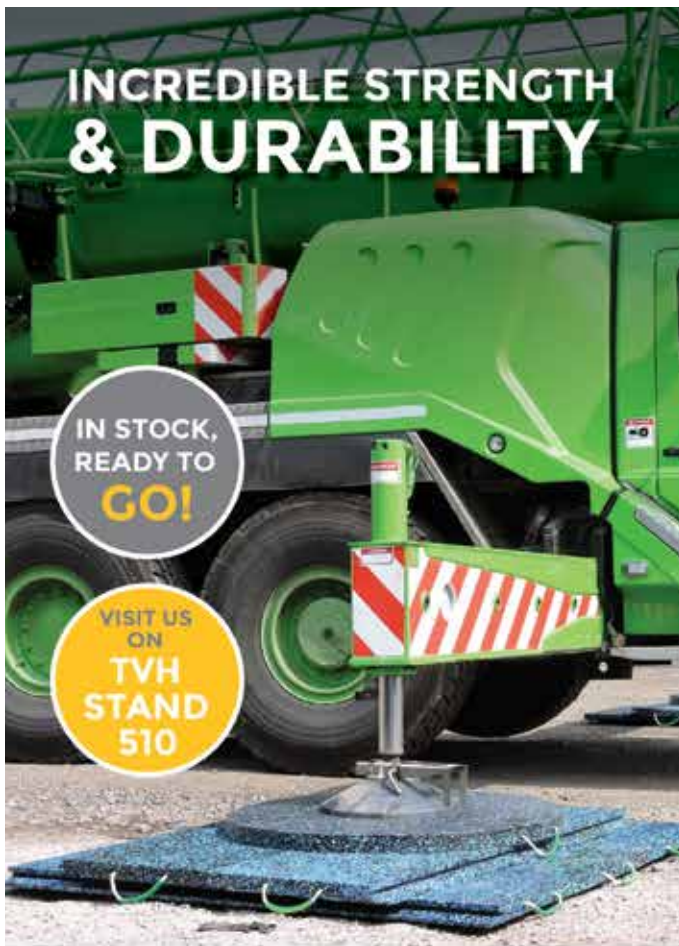


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## OUTRIGGER PADS

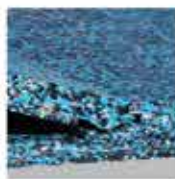
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BE CONFIDENT.  
 BUY QUALITY.

### Bristol Initiative Trust: Entrance Pavilion

See: *My Future My Choice*

### Capja: Stand MP18

Capja specialises in replacing the manual paper-based process with digital solutions. Its user friendly mobile apps can digitise any type of form including timesheets, daily/weekly checks, site visit forms and RAMS. Visit the stand to see digital timesheets and check sheets on its mobile app. Also watch the demonstration of CapjaDocs QR solution which delivers latest fleet, certification, project, employee or whatever documentation directly to customers using QR Code technology.

### Certora Training: Stand MP44

Certora provides equipment operator training, qualifications and assessments. Courses can be delivered on site or at one of its dedicated training centres. Courses include IPAF Operator, IPAF Managerial, PASMA Training, Safety Harness, Bi-Line and Fall Arrest.



### Close Brothers Asset Finance: Stand 309

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



### Columbus McKinnon: Stand MP4

See: *Multi-Sec*

### CPA: Stand 614

The Construction Plant-hire Association team will be on hand to offer general advice and guidance, in addition to answering member and industry queries on the activities the association is involved with, including apprenticeships, skills and training, Stars of the Future and the CPA Conference 2022, as well as issues affecting the lifting sector such as the removal of red diesel, zero emission initiatives and aviation notification requirements.



**Cranes Today:** Stand MP28

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

**Crown Batteries:** Stand MP10

See: *Shield Batteries*

**DC Battery Technologies:** Stand MP20

As the master distributor for Trojan Battery in the UK, DCBT supplies the entire Trojan range and will showcase Trojan's Silver Line, Flooded and AGM power products, plus the DC Power 24V Lithium Series 4000 and Series Predator Lithium. From the XDC (Xtra Deep Cycle Tin AGM) range it will also have its 6V power solutions on display. The Predator brand - the DCBT flagship brand for high performance superior batteries - will be introduced to the powered access industry for the first time.



**DC Power:** Stand MP20

See: *DC Battery Technologies*

**Durham Lifting:** Stand MP4

See: *Multi-Sec*

**Dynaset:** Stand MP3

Hydraulic equipment manufacturer Dynaset specialises in converting the hydraulic power of mobile machinery into electricity, high pressure water, compressed air, magnet power, vibration and power boosting. The company manufactures hydraulic generators, power washers and compressors and plans to bring a selection of equipment to the show.



**Dyneema:** Stand MP45

See: *Lift-Tex Heavy Lift Slings*

**Ecobat Battery:** Stand MP5

Ecobat is the UK's largest independent battery distributor and on its stand will be a selection of Rolls batteries and Fronius chargers.

**EMCE:** Stand MP6

See: *Red Rooster Lifting*

**Extrema:** Stand MP45

See: *Lift-Tex Heavy Lift Slings*

**Fronius:** Stand MP5

See: *Ecobat Battery*

**Gebuwin:** Stand MP6

See: *Red Rooster Lifting*

**GemOne:** Stand MP29

GemOne provides smart telematics solutions for a variety of sectors. Sapphire for safety management for material handling and Onyx fleet management for mixed fleets allow users to track vehicles, boost efficiency, operate more safely and avoid unexpected downtime.



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[brontoskylift.com](http://brontoskylift.com)



**G-Force:** Stand MP31

See: *Safetyliftinggear*

**Green Pin:** Stand MP4

See: *Multi-Sec*

**GRIPPS:** Stand MP46/47

See: *Xenith Heights*

GS Yuasa Pro-Spec: Stand MP10

See: *Shield Batteries*

**Hitech Lift Trucks:** Stand 313

Material handling solutions provider Hitec supplies the Hyster forklift range and also offers cleaning equipment, specialist warehouse products, access equipment and comprehensive engineer coverage. It is also the official supplier of forklifts to Vertical Days.



**HYTORC:** Stand MP30

HYTORC offers a full line of hydraulic, pneumatic and electric torque and tension tools to make industrial bolting safer and simpler. Latest products include hands free operation to keep operators at a safe distance from the application. Built-in documentation systems provide job accountability and bolt load accuracy reduces nut loosening and joint failure. The company will be demonstrating its latest product launches including the HYTORC Washer systems, Lithium Series II Electric Torque tool, MXT+ Hydraulic Torque wrench and VECTOR pump technology.



**InspHire:** Stand MP22

With its new branding and logo, rental management software provider inspHire will be demonstrating inspHire Office, inspHire Corporate and On Rent. OnRent is a cloud-based solution aimed at small to medium sized businesses allowing users to fully manage their rental sales, service and invoicing while on the go.

**KITO:** Stand MP6

See: Red Rooster Lifting

**Knipex:** Stand MP46/47

See: Xenith Heights

**Lasalign:** Stand 215

First time exhibitor Lasalign specialises in mobile crane wheel alignment. It recommends checks should be carried out regularly and always after the installation of replacement steering parts. Correct wheel alignment ensures optimum fuel efficiency and reduces tyre wear yet is something all too often overlooked in the crane business. With the rising cost of fuel and the ending of rebated red diesel, the benefits of good wheel alignment has never been more important.



**Latch & Batchelor:** Stand MP42

Latch and Batchelor is the UK supplier for Verope premium wire ropes to crane companies, port authorities, mining and construction sites across the UK, Ireland and overseas with rope in stock for same day or next day delivery. Its engineers are certified to fit end stops on mobile cranes either at its Birmingham site or on a customers' site depending on the type of end termination.

**Leoch Battery UK:** Stand 310

Highlight of the Leoch Battery stand will be the new LDC using 'an exclusive technology developed by Leoch Battery'. Leoch says the new product has a long service life and the ability to perform at PSoC (partial state of charge). Also on the stand will be its popular Flooded Flat Plate DT series batteries and Lithium options for those looking for units that are lighter, have the highest depth of discharge and have a longer design life.



**LiftinGear UK:** Stand MP31

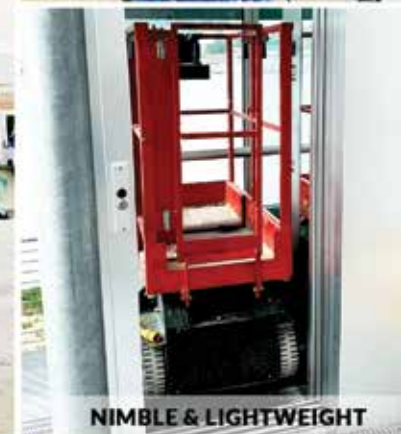
See: Safetyliftinggear

**Lifting Gear UK:** Stand MP43

Lifting Gear UK is a global provider of lifting and handling equipment and advice. Its Lifting Projects division specialises in contract lift work, lifting solutions and fabrications, while offering heavy lifting equipment up to several hundred tonnes for sale or rental both in the UK and overseas. With 10 locations across the UK the company provides LOLER, repair and maintenance services as well as a range of training courses.

**Lift-Tex Heavy Lift Slings:** Stand MP45

Extrema is the leading brand of Dutch fibre sling manufacturer Lift-Tex Industrie. The heavy lift Extrema round slings with bio-based Dyneema are used for manufacturing, transportation and



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**VERTIKAL DAYS / 11TH-12TH MAY 2022 - EAST OF ENGLAND ARENA  
SEE US IN THE MARKET PLACE MP20 / WWW.VERTIKALDAYS.NET**

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Load Monitoring Systems  
Pad eye tester

MCS Rental Software



installation of big modules, renewables, oil rigs, FPSO's, nuclear lifting projects and the automotive industry. Unlike braided fibre ropes, the construction of an Extreema round sling is based on parallel laid fibre technology making the slings up to a claimed 15 times stronger than steel on a weight for weight basis and a weight reduction up to 80 percent compared to wire rope.

**Load Monitoring Systems:** Stand MP24

Load Monitoring Systems specialises in the design, manufacturing, sales and rental of lifting and load measuring products used throughout the world by the marine, subsea, oil and gas, construction, mining and energy sectors. It will be exhibiting Load Links, Load Pin Shackles and other specialist lifting equipment as well as the new digital Pad eye tester which features an onboard 'Digital display', wireless and Bluetooth connections and adjustable Clevis Height and Digital Mounted Display. Models are available with up to 30Te proof test capability.

**Magnetek:** Stand MP14

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

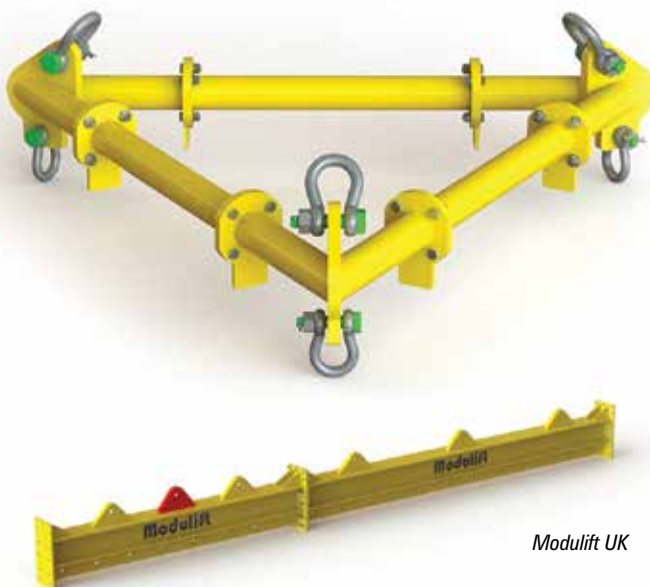
**MCS Rental Software:** Stand MP34

Rental software provider MCS will showcase its recently launched Timesheet Mobile app giving users the ability to digitise shift allocation, timesheet creation and submission, and finalise customer invoicing for hours worked. The app helps hirers and operators find a digital solution to inefficient paper based timesheets which proved a common bottleneck in the rental industry. The company will also show its fully integrated resource planning tool, MCS Resource Planner. Built on the latest technology, MCS-rm has additional functionality available for hirers from its integrated CRM software.

**Microsoft Partner (Gold):** Stand MP11

See: *BigChange*

**Modulift UK:** Stand MP25



Modulift UK

Modulift provides technical expertise as well as the manufacture and supply of 'below the hook' lifting equipment including lifting and spreader beams with spreader frames and other custom lifting equipment used in the Renewable Energy, Modular Accommodation, Ports & Marine, Nuclear, Construction and the Oil and Gas sectors.

The company also offers a full in-house engineering service including complete design with latest 3D and FEA analysis, experienced coded welders, testing and complete paint finish line. All Modulift standard products up to 600 tonne capacity are available off the shelf or can be custom designed to meet customers' specific requirements.



**Mouvers:** Stand MP8

Attending the show for the first time in Mouvers has the UK debut of its modular machinery moving system - Apollo. The strongest version is on show - recently purchased by D.Turner and Son - and consists of a battery power pack plus 25 tonnes FST25 self-propelled skate and the Combo 50 rear skates. Available in several configurations up to a capacity of 75 tonnes the system uses a battery or grid powered power packs. Apollo self-propelled skates can drive on any solid floor and work on gradients using hydraulic motors that power the front skate wheels. Load height is just 150 mm.

**Multi-Sec:** Stand MP4

Manufactured in the UK, Multi-Sec Engineered Lifting Systems include modular spreader beams,

lifting frames, lifting beams, adjustable module lifting frames, container lifting frames, C-hooks & tri-plates. As well as selling and hiring equipment, the company also designs and manufactures bespoke products.

**Myerscough College:** Stand MP1

Myerscough College is one of the largest providers of specialist Land Based Apprenticeships. Visit the stand to chat about its range of Apprenticeships within Construction/ Crane/Lifting/Grounds Care and Agricultural Engineering. Training is delivered on a block release basis at its specialist facility in Preston, Lancashire. It can also provide advice on apprenticeship funding and the apprenticeship levy and how this can aid your organisation with meeting recruitment and workforce development needs.

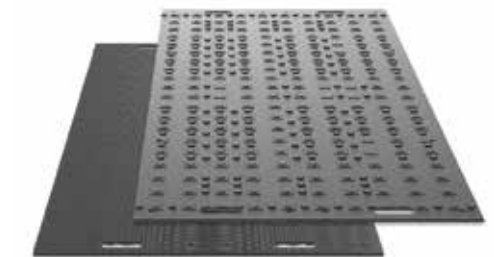


**My Future My Choice:** Entrance

Students from local schools will be visiting Vertikal Days to participate in the lifting workshops organised by My Future My Choice, with the support of Liebherr apprentices. The aim of the organisation is to introduce primary and secondary school children to the lifting equipment industry, in order to raise awareness and encourage enthusiasm for the equipment and the benefits of a career in engineering.

**Nolim:** Stand 513

Nolim is one of the largest suppliers of outrigger and road mats in Europe. It will show a range of outrigger mats/pads, outrigger shoes, temporary ground protection/road mats and stowage boxes - all made from lightweight HMPE 500 regenerated plastic.



**Onyx:** Stand MP29

See: GemOne

**Outtriggerpads:** Stand 510 and MP19

See: TVH

**Paragon Bank:** Stand 215A

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

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## VERTIKAL DAYS

**Pegasus Batteries:** Stand MP7

See: *Battery Service Hub*

**Petzl:** Stand MP46/47

See: *Xenith Heights*

**Platinum International:** Stand MP23

Platinum International will showcase the Platinum brand of Deep Cycle and Starter Batteries. The company says that it is the preferred choice for OEM manufacturers and offers a full range of both flooded deep cycle as well as Carbon AGM maintenance free batteries. The company also claims to be the UK's leading battery distributor selling more than two million batteries per year.



**Point of Rental Software:** Stand MP9

For nearly 40 years Point of Rental has provided rental and inventory management software solutions for every job role throughout a business, introducing key features to the hire software industry, from dispatching and wireless alerts to telematics integrations. The company serves customers in 80 different countries from offices in the US, UK, Australia, South Africa, Germany and Canada.

**Predator:** Stand MP20

See: *DC Battery Technologies*

**RaycoWylie:** Stand MP21

RaycoWylie provides wired and wireless crane monitoring systems for the retrofit market. It will be showing its i4000 indicator systems, the i4300 wired safe load indicator and the i4500 for more complex retrofit installations. Features include a 4.3 inch full colour screen plus USB connectivity that can be used to transfer calibration files, load charts and software.



*Verton load management systems from Red Rooster Lifting*



**Red Rooster Lifting:** Stand MP6

Red Rooster Lifting delivers versatile lifting solutions with products including air hoists, load measuring equipment, EMCE winches, Kito manual and electric hoists, Kito Van Leusden, Gebuwin winches and Verton load management systems. New is Verton's gyroscopic technology for precise remote load orientation and control eliminating taglines for a 'hands-free' lifting operation. Red Rooster has a vast load measuring product range with capacities up to 500 tonnes covering ATEX and standard load cells, load shackles, compression load cells, crane scales and running line monitors.

**Rolls:** Stand MP5

See: *Ecobat Battery*

**SafetyLiftingGear:** Stand MP31

SafetyLiftingGear is a leading supplier of Height Safety, Materials Handling and Lifting Products. This year it will be displaying its Hammer material lifts as well as its latest harness - the XForce-Ultra Comfort fall protection and rescue harness.

**Sage:** Stand MP11

See: *BigChange*



*SafetyLiftingGear harness*





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**UK truck body manufacturer Sterling**



**Sapphire:** Stand MP29

See: *GemOne*

**Shield Batteries:** Stand MP10

UK battery distributor Shield Batteries offers a wide range of batteries for powered access, lifting equipment and telehandlers, while also offering fleet owners an easy to use battery replacement service. It will have a wide range of batteries for powered access equipment on show, along with lifting equipment from Crown, GS Yuasa Pro-Spec and Sterling.

**Sterling Group:** Stand 402

UK truck body manufacturer Sterling claims to be the leading producer of beavertail bodies for transporting aerial work platforms and will show its latest generation of truck/vehicles bodies. This may include a 32 tonne beavertail installed on a Scania 8x2 chassis and a 26 tonne fully electric beavertail giving visitors an insight into what the future of transport might look like.

**Tele Radio UK:** Stand MP39

Tele Radio designs and manufactures customisable remote control systems for the lifting, access, and mobile machinery markets. The company will exhibit a range of standard pushbutton and joystick products designed for typical crane, hoist and mobile applications as well as a range of custom wireless control systems for the proportional hydraulics market.

**Tensology:** Stand MP37

Tensology provides a full range of products, equipment and services for the installation, testing, inspection and lubrication of all types of crane rope. The company will be showcasing its wire rope lubrication and inspection capabilities as well as its LEEA accredited Crane Rope Examiners course.

**TEO:** Stand MP6

See: *Red Rooster Lifting*

**The Crosby Group:** Stand MP4

See: *Multi-Sec*

**Top Service:** Stand MP16

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



*TeleRadio Panther Tx*



*Tensology MH6-26*





Halo 2000



Torquer: Stand MP15

Load orientation system manufacturer Torquer will demonstrate its recently launched HALO systems which offer lift capacities of five, 10 and 20 tonnes. The system comprises a shallow circular tank of liquid suspended from a crane between the hook and the load.

Radio controlled thrusters then propel the water in a clockwise or anti-clockwise direction providing accurate and precise positioning of the load without the need for tag lines. Another new product being demonstrated is the SPEAR which enables a hands free and purely mechanical method of connecting to, lifting and releasing a load, without the use of magnets or electronic devices.

**Total Source:** Stand 510 and MP19

See: TVH

**Tracked Carriers:** Stand 314

Tracked Carriers will have a selection of its compact crawlers capable of moving loads up to 2,200kg with overall widths from just 600mm. All machines are remotely operated, have the capability to drive up gradients of 45 degrees and are battery powered for emission free use.



1200 PRO

**Trackunit:** Stand MP41

Telematics and fleet management company Trackunit will showcase one of its key products - Trackunit Kin. The Bluetooth tag provides asset tracking for construction equipment and enables construction professionals to increase business efficiency by optimising asset utilisation and making lost tools and attachments a thing of the past.



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**Trojan Batteries:** Stand MP20

See: *DC Battery Technologies*

**TVH:** Stand 510

Global supplier of spare parts and accessories for aerial work platforms, telehandlers, forklifts and construction machinery, TVH has a database of more than 44 million article numbers and stocks 930,000 different parts references. Following its acquisition of UK parts and service company IPS, TVH says that it is now better placed to serve the UK powered access market. It plans to display a fully stocked service van, highlighting the volume of spare parts, including joysticks, controllers, switches and sensors. It may also demonstrate its battery reconditioner system which restores capacity and extends battery life, as well as its Bandenkot tyre filling machine for foam filled tyres.

**TVH University:** Stand MP19



Part of replacement parts and training business TVH, TVH University provides practice-oriented technical education. It provides expertise in industry-related subjects such as internal combustion engines, electrics and electronics, hydraulics and power electronics, both in-person and virtually.

**Universal Crane Mats:** Stand 210

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

**Valvoline:** Stand MP23

See: *Alliance Automotive Group*

**Verope:** Stand MP42

See: *Latch & Batchelor*

**Vertikal Press:** Stand MP35

Vertikal Press is the leading independent news provider for the lifting equipment industry. It is the publisher of both *Cranes & Access* and *Kran & Bühne* magazines as well as the industry renowned news service and information database *Vertikal.net*. It is also the organiser of Vertikal Days as well as other events. Be sure to come and say hello to the team.

**Xenith Heights:** MP46/47

Specialist Working at Height product provider Xenith Heights will show its latest generation of ARESTA height safety personal protection equipment and GRIPPS tool tethering products. Xenith also represents Petzl climbing gear and Knipex Tethered Tools.

**Xero:** Stand MP11

See: *BigChange*



*Xenith Heights*



# THANK YOU FOR VISITING **VERTIKAL DAYS 2022**

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

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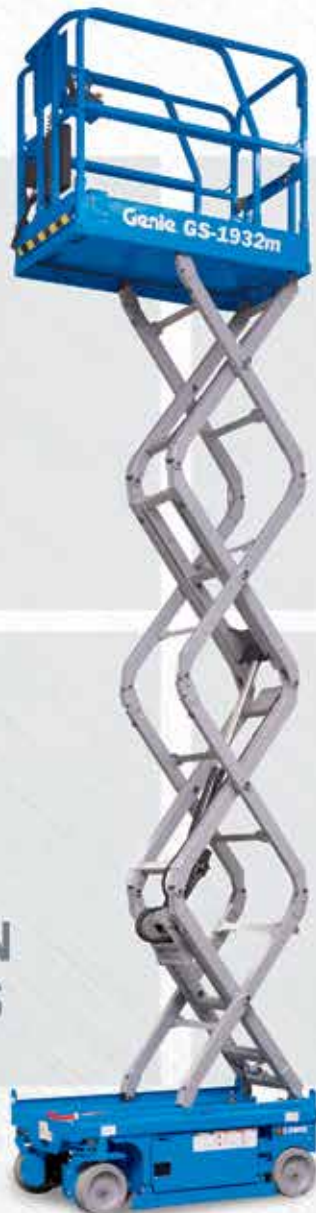
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Haulotte Sigma 16



Dingli BA22ERT

# ALL ELECTRIC BOOM, BOOM...

After the initial cries of poor quality, cheap product and bad design, Chinese aerial lift manufacturers have improved rapidly and steadily gained market share on the back of good quality, performance and value for money. Having concentrated on the smaller scissor market they are now turning their attention to boom lifts.

This can clearly be seen at industry exhibitions such as the ARA and Bauma etc... and Vertical Days, in Peterborough, UK on the 11th and 12th May will be no exception. Dingli, LGMG, Sinoboom, Zoomlion and XCMG will all be there and plan to launch several new boom lifts.

## DINGLI

Dingli - China's leading aerial lift manufacturer - will show its new 90ft BT30ERT Lithium powered boom with a 30.2 metre working height, 22.4 metres outreach, a maximum platform capacity of 454kg, or 300kg unrestricted and an overall weight of just under 19 tonnes. The boom features all electric drive using an 80V 520Ah high capacity lithium battery pack with 1.5 hours fast charge capability. Overall stowed length is 12.3 metres.

Dingli is also finding success with its articulated electric booms such as the 66ft Dingli BA22ERT with the first units arriving in Europe early last year. The BA22ERT offers a working height of 22.21 metres, an outreach of 12.72 metres at an up & over height of eight metres with a 230kg platform capacity. Features include four wheel drive and steer, 30 percent gradeability, 360 continuous slew, foam filled non-marking tyres and 130 degrees of jib articulation. Weighing just over 10 tonnes, power comes from a 48 volt system made up of two 24 volt, 375Ah batteries.

## LGMG

LGMG is planning to launch a new range of battery powered platforms at the show including a lithium version of its 66ft T20J telescopic and the articulated 46ft A14JE.

Last summer the company launched the new 72ft T22J (T72J in North America) dual capacity telescopic boom, with a three section telescopic boom topped by an articulating jib for a working height of 23.8 metres and a maximum outreach of 17.5 metres with a 300kg unrestricted platform capacity. Maximum platform capacity is 450kg with a three person outdoor rating.

The T22J is equipped with a 2.44 metre by 900mm platform with a triple entrance design. Power is supplied by a Deutz Stage V diesel with variable engine speed to reduce noise and fuel consumption. Four wheel drive and oscillating axles are standard. Total weight is 12,300kg and options include a generator, glass panel bracket, non-marking solid tyres, secondary guarding, and telematics system.

## SINOBOOM

Sinoboom plans to launch two new fully electric boom lifts, the 66ft TB20EJ Plus battery powered straight telescopic and the 60ft all electric AB18EJ articulated boom. The new units join the 46/51ft AB14EJ and AB16EJ all electric articulated boom lifts announced last year.



Dingli BT30ERT



LGMG T22J

The two boom lifts share most of the same components, including the same sigma type riser, two section telescopic boom and articulating jibs. However, the AB16EJ has longer boom sections and a wider chassis. Slew is 355 degrees, platform rotation 160 degrees and the battery



*Sinoboom AB16EJ*

pack is made up of eight six volt 420Ah lead acid batteries.

The AB14EJ offers a working height of 16 metres, an outreach of 7.6 metres with an up & over height of 7.8 metres and an unrestricted platform capacity of 230kg. It has an overall width of 1.73 metres and weighs 7,100kg. The AB16EJ offers an 18 metre working height, an outreach of 9.3 metres at the same 7.8 metre up & over height with a 230kg platform capacity. It is slightly wider at 1.9 metres and weighs 7,300kg.

### XCMG

XCMG has been ramping up its European operations this year and will unveil several new booms including the 86ft XGS28E and 66ft XGS22E. Two other recently launched electric boom lifts include the 62ft articulated 4x4 XGA20ACE and the 86ft XGS28KE lithium ion powered telescopic with 4x4 drive and dual 300/460kg platform capacity. XCMG kicked off its European efforts with Dutch rental company Collé placing a major order for 50 units of its diesel powered 86ft XGS28E boom lifts along with 50 scissor lifts.



*XCMG XGS28E*

### ZOOMLION ACCESS

Zoomlion is launching several new all-electric boom lifts including the 88ft ZT26JE and the 32ft ZA10RJE and ZA20JE articulated booms. They follow the launch earlier this year of its first all-electric Rough Terrain articulated boom lift, the 51ft ZA16JERT. The machine features a dual over-centre sigma type riser, topped by a two section telescopic boom and 1.53 metre articulating jib, providing a working height of 17.8 metres with a maximum outreach of 9.7 metres at an up & over height of almost eight metres with its 250kg maximum platform capacity. Power comes from a 48 volt 320A/h battery pack feeding AC electric



*Zoomlion ZA16JERT*

drive motors with four wheel drive and oscillating axle. The unit has an overall width of 2.3 metres, an overall length of 7.7 metres and a stowed height of 2.3 metres. Total weight is 7,300kg. The standard specification includes secondary guarding and a full on-board diagnostics package.

### MANITOU

Manitou's new all-electric ATJ booms will also be at the show including its first fully electric Rough Terrain platform - the 60ft 200 ATJ E - with a 20 metre working height, up to 11.57 metres of outreach at and up & over height of almost eight metres and an unrestricted capacity of 230kg. Power comes from a 48 volt battery pack, which is said to be sufficient for full day's high use work. The drive train is unusual in that it features a single large electric motor mounted inboard to a transfer box with the usual shafts driving the axles in the same way as its well proven diesel RTs.



*Manitou 200 ATJ*

### NIFTYLIFT

Niftylift has been developing its boom lift line-up with new technology, including new all electric models with direct electric wheel motor drive on its all-electric articulating boom lifts along with a lithium ion battery pack option. Having led the development of true hybrid boom lifts, the company has been introducing its Gen<sup>2</sup> Stage V Hybrids, with all models fully compatible with HVO fuel. If you have not seen its latest hybrids, make sure you take a look. Other new developments include the Niftylink telematics system.

### JCB

JCB has finally launched its boom lift line, starting with the new 48ft AJ48D articulating boom lift, initially for the North American market but now coming to Europe. It features a working height of 16.7 metres, an outreach of 8.3 metres at an up & over height of 7.5 metres with an unrestricted platform capacity of 250kg. Weighing 7,885kg, it has a stowed length of 7.35 metres, a width of 2.26 metres and a height of 2.23 metres. Features include four wheel drive, electronic secondary



*The JCB AJ48D*

guarding and the company's LiveLink telematics system with a colour display screen that provides a range of information such as the load in the basket and diagnostics. The new machine will be the first in a full range.

### SNORKEL

Late last year Snorkel unveiled a lithium-ion battery powered version of its 46ft A46JRT articulated boom lift. The A46JRTE is in essence a battery powered version of the diesel model and features three 111Ah lithium-ion battery packs. A battery management system, which continually monitors each cell and works with the charger and the rest of the machine to achieve maximum efficiency.

The batteries power a 20Kw AC motor which in turn drives two hydraulic pumps. After that the machine is almost identical to the diesel. It is however more powerful with more torque and traction. Snorkel says that in tests the battery pack can last up to a week in 'rough terrain conditions', and up to two weeks of light use. The company believes that, while the machine carries a premium sticker price, it has a fast payback with a lower cost of ownership.

### NAGANO

Japanese manufacturer Nagano launched the 22ft 09AC articulated tracked boom last year featuring a short single riser topped by a two section telescopic boom, for a working height of 8.8 metres and up to 4.5 metres of outreach at an up and over height of almost four metres. It can drive at working heights of up to six metres. The all up weight of 2,620kg for transport on a standard two axle trailer.

The company is now set to unveil an all-new 32ft compact telescopic boom lift, the 12C which has a very similar specification to the 32ft Hitachi HX99B-2 which has been out of production for several years but which remains highly popular in the Benelux region. The working height is almost 12 metres while working outreach 8.4 metres with the unrestricted platform capacity of 200kg. The machine has an overall width of just over two metres, a stowed length of six metres and it weighs just under six tonnes. More details in the next issue.



*Nagano's new 40ft boom*



*Nagano 09A*



*Haulotte Sigma 16 has a 1.75m overall width*

## HAULOTTE

Last year Haulotte unveiled its all-new 46ft battery electric articulated boom lift, the Sigma 16 and Sigma 16 Pro. The lift uses a dual arm over centre riser, topped by a two section telescopic boom and jib with 130 degrees of articulation. The jib on the Pro model also offers 110 degrees of horizontal rotation - 55 degrees either side of centre. Working height is 16.1 metres with an unrestricted platform capacity of 230kg. Maximum outreach is 8.35 metres - 8.05 metres on the Pro thanks to its rotating jib - at a 7.6 metre up & over height.

Drive is direct AC electric wheel motors powered by a 48 volt system with eight 435Ah six volt lead acid batteries. The control box is similar to that used on Haulotte's RTJ range with the company's Activ Shield secondary guarding system. Other features include the Activ Lighting System for safer work at night, especially when loading on a trailer.

## SKYJACK

Last year Skyjack upgraded its 40/45ft telescopic boom lifts and introduced new versions of its 45 and 60ft articulated boom lifts. The new telescopic models are the SJ45T+ and SJ66T while the two new articulated models are the SJ45AJ+, and the SJ60AJ+ which replaces both the SJ51/SJ63 and SJ63AJ+. The key change on the new boom lifts is the adoption of the company's new SmarTorque axle type drive train and high efficiency hydraulic system which harnesses the engine's output more effectively, allowing the use of a smaller more efficient diesel, which does not require additional sensors, diesel particulate filters or DEF fluid. The company used two years of real job site telematics input from hundreds of machines when designing the new machines, the first time it has been able to do so. The two articulated models are up to 20 percent lighter than the units they replace.

Platform capacities are 300kg on the SJ45J+ while the new SJ60AJ+ offers a 300kg unrestricted platform capacity with a maximum of 454kg. The telescopic models offer 272kg unrestricted with a 454kg maximum capacity. ■



*Skyjack SJ45 AJ+*

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*Just some of the crawler crawlers currently working on the temporary jetty to help construct HS2's CVV*

# HS2 - THE REALITY

A sizeable number of modern crawler cranes are helping construct the UK's HS2 high speed railway, Europe's largest construction project. Nick Johnson reports.

**Crawler cranes have long played an important part in the construction of major infrastructure projects. But the size and types of these machines has evolved significantly over the years. Back in the 1950s and early 1960s the universal rope operated excavator crane still reigned supreme. Multi-purpose machines such as the legendary Ruston Bucyrus 22-RB could be equipped with different front end equipment for different tasks. So, for primary excavation they were rigged as face shovels, backacters or skimmers whilst the alternative lifting boom facilitated dragline or grab operation or the hook for crane use.**

The creation of more efficient 360 degree hydraulic excavators during the 1960s largely took over primary digging work and the rope operated machines were developed into more dedicated, higher capacity cranes. Then, mechanical drives were replaced by hydraulics and as crane development progressed, telescopic cranes - and to some degree telehandlers - began to take over some of the lighter work and crawler crane usage moved more towards the heavy lifts.

## HS2 MOSTLY LATTICE

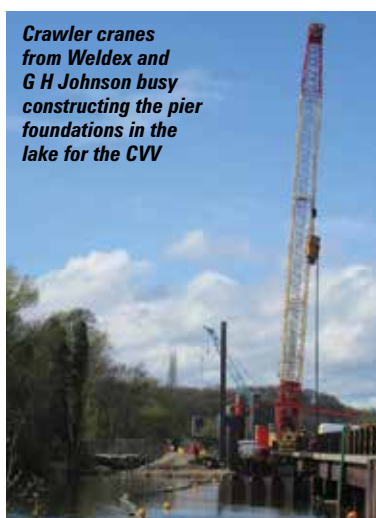
The arrival of crawler cranes with telescopic booms has provided a useful operational alternative to the traditional lattice boom machines for certain lifting work on civil engineering jobs. However, the majority of crawler cranes used on the HS2 project are lattice boomed, as can be seen by the profusion of different coloured booms on the skyline along the route of the first phase of the line from London to Birmingham.

Designed for trains to travel at up to 200mph from London to the country's second largest city, Phase One of the new railway line will be 230km long with four major stations - including Euston and Old Oak Common in London and Curzon Street in Birmingham - 42km of tunnels and more than 300 bridges and 70 viaducts.

The longest overhead structure will be the 3.4km long Colne Valley Viaduct (CVV) on the border between London and Buckinghamshire. Destined to become the UK's longest railway bridge it will carry the HS2 line over waterways - including the Grand Union Canal - four lakes, two roads and four footpaths. The contractor on this stretch of the line is Align JV - a consortium of Bouygues Traxaux Publics, Sir Robert McAlpine and VolkerFitzpatrick.



*A telecrawler*



*Crawler cranes from Weldex and G H Johnson busy constructing the pier foundations in the lake for the CVV*



**FROM BIM TO REALITY**

The September 2021 issue of C&A carried an article on BIM providing a digital insight into how the viaduct will be built. Now those computer-generated images are becoming reality as the temporary access jetties are constructed across the lakes and the first piers to carry the viaduct deck are rising up out of the ground.

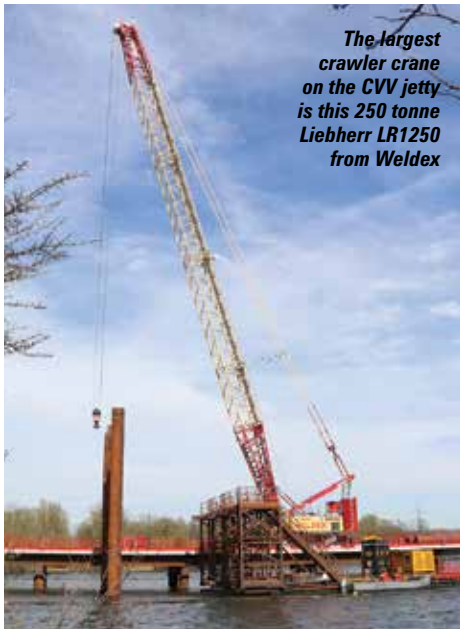


Crawler cranes from several prominent UK companies are helping assemble the jetties and assisting in the construction of the piers. The biggest units on the jetties are two, 250 tonne Liebherr LR1250s from Weldex. They are working alongside Kobelcos from Delden and G H Johnson. The G H Johnson machines include 135 tonne capacity CKE1350Gs and 80 tonne CKE800Gs.

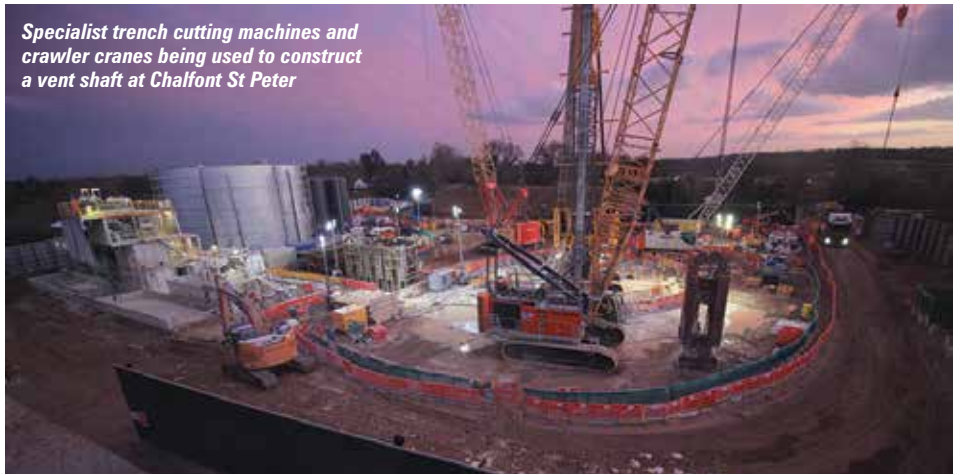
Two new 100 tonne Kobelco CK900Gs from Delden are assisting Align JV and its partner Kilnbridge to construct the first piers on land beside the A412 near Denham Green. A Delden 160 tonne Liebherr LR1160 crawler is also on site. This is the location where the impressive launching girder - dubbed the 'Traveller' - is being assembled and tested. Supplied by Italian company Deal, it is 160 metres long and will travel out over the newly constructed piers to install the precast deck sections that will weigh up to 133 tonnes.

**THE TUNNELS**

On both sides of the viaduct the HS2 rail line will travel through new tunnels dug out by TBMs (Tunnel Boring Machines). Crawler cranes are playing an important role assembling the TBMs and constructing the massive ventilation shafts



*The largest crawler crane on the CVV jetty is this 250 tonne Liebherr LR1250 from Weldex*



*Specialist trench cutting machines and crawler cranes being used to construct a vent shaft at Chalfont St Peter*



*Crawler cranes from Hawks Hire and NRC Plant at the Victoria Road site in Acton*

strategically located along the tunnel route.

Last year a 650 tonne Demag Superlift 3800 from Weldex was positioned at the Chiltern tunnel portal site close to the M25 in Buckinghamshire, where it helped assemble the two 2,000 tonne TBMs named Florence and Cecilia that are now busy digging the 16km HS2 tunnels under the Chilterns towards Amersham. The vent shafts are constructed with specialist trench cutting

machines, often utilising modified crawler crane bases supported by standard crawler mounted lifting cranes.

Two other TBMs are being assembled near West Ruislip station and these will construct some of the 26km of tunnels towards London. Work is progressing on the eight vent shafts and structures on this route including the one at Victoria Road in Acton where SCS JV - a consortium of Skanska, Costain and Strabag - is also building a crossover box that will let trains switch tracks on the way in and out of Old Oak Common station. Two more TBMs will also be installed here to dig tunnels out towards West Ruislip.

Crawler cranes used on the Victoria Road site in Acton include two from NRC - a 250 tonne HSC SCX2800-3 lattice and a 50 tonne Link Belt TCC500 telescopic - and a 300 tonne Liebherr LR1300 from Hawks Hire is also on site.

**FLEET EXPANSION FOR HS2**

The HS2 project has encouraged companies to expand their crawler crane fleets to meet increased demand. Delden Cranes specifically acquired its 250 tonne Liebherr LR1250 for HS2 work and BPH Equipment added three new 100 tonne Kobelco CKE900G-3 crawlers at the end of last year along with two new 135 tonne CKE1350G-2s.

The Kobelco CKE900G-3 is proving a particularly popular crane in the 100 tonne class.



*One of Delden Cranes' CK900G-3 helping to construct a land-based pier for the CVV*





**Kobelco CKE1350G-2s crawler cranes from BPH Equipment on the site of the new Old Oak Common station**



**The electric Liebherr LR1160 from Select Plant Hire in operation at HS2's Canterbury Road vent shaft site**

Last year the three new units from BPH Equipment went straight to work on the HS2 Old Oak Common site for BBVS - the Balfour Beatty, Vinci and Systra joint venture - on the £1 billion main station contract. Also on site are four BPH CKE1350-2s - which are playing a supporting role during the construction of the station box's 1.8km long, 25 metre high diaphragm walls while two were used for general lifting duties including lifting cages and piling rebar.

The two newest CKE1350-2s are equipped with Groeneveld automatic lubrication systems and safety equipment including an Orloco camera system with winch view and load zoom capabilities alongside a 360 degree camera system fitted by the SB3 joint venture of Soletanche Bachy and Balfour Beatty Ground Engineering. Balfour Beatty is now adding five more 100 tonne Kobelco CKE900G-3s to its fleet which are destined for HS2 work in the Midlands.

AGD Equipment has supplied a 45 tonne

Marchetti Orsa CW45.32 telescopic crawler on HS2 work in Ruislip - the fact that its facility is close to the HS2 route has been a plus.

**LOW RATES  
DESPITE HIGHER DEMAND**

The requirement of HS2 to use machinery with the latest generation of lower emission engines has been instrumental in hire companies buying new machines. However, some companies have said that despite the increased demand and requirement for cranes that meet the latest emissions standards, hire rates have not risen accordingly.

As well as specifying the use of Stage IV and Stage V compliant diesel engines, HS2 has been pioneering the deployment of electric crawler cranes. Following an initial trial at the Curzon Street Station site in Birmingham last year, Select Plant Hire has now supplied three emission-free electric Liebherr cranes to HS2 sites.

Expanded - a Laing O'Rourke specialist business working for BBVS - has taken two of the first battery powered electric crawler cranes - a 250 tonne LR1250E and a 160 tonne LR1160E - onto the Old Oak Common Station site. See page xxx for more details.

The third lattice boom electric Liebherr crawler crane - a 160 tonne LR1160E - has arrived at HS2's Canterbury Road vent shaft site managed by the SCS JV.

The use of electric crawler cranes is part of the HS2 projects stated aim to be net zero carbon from 2035, with the target of achieving diesel free sites by 2029. To achieve this, HS2 states that it is collaborating with the industry and its supply chain to accelerate innovation in low carbon technologies such as fully electric machinery, alternative fuels and renewable energy solutions. ■

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# DON'T FALL FOR IT! SAFETY CAMPAIGN TARGETS FALLS FROM THE PLATFORM

A campaign emphasising the importance of working safely to avoid falls from aerial work platforms has been launched by IPAF. The Don't Fall For It! safety campaign outlines the possible underlying causes of falls from the platform which almost always lead to serious injury or death. It offers operators and managers key advice to mitigate the most common risks and avoid accidents of this type, as identified in IPAF's incident reporting and analysis portal.

Key points of guidance in the IPAF Don't Fall For It! campaign include:

- Plan thoroughly - conduct a proper site survey/assessment, select the correct machine for the work and use professionally trained operators and supervisors.
- Know your machine - operators should be trained on the machine type they are using and familiarised on the specific model. Operators should assess the machine as suitable for the task and conditions. Machine knowledge includes whether personal fall protection equipment should be used and, if so, what type to use and how to attach it.
- Clip on - If personal fall protection is required, all occupants of the platform must attach their lanyard to the correct anchor point. Ensure movement within the platform is possible while attached, and do not move the machine or elevate the platform until and unless all occupants are attached.
- Set up and manoeuvre the machine/platform effectively - occupants should never need to over reach, unfasten their harness step or climb on guardrails or otherwise extend the



safe working envelope of the platform. Ensure vertical lifts are positioned and repositioned as necessary to allow easy access to the area of work to be undertaken.

- Stay inside the platform/attached - platform guardrails form the primary fall prevention and define the operational envelope of the machine being used. Always stay inside the platform. Do not exit the platform at height, unclip only on completion of work and when safely lowered to the ground.

For more information visit [www.ipaf.org/safe](http://www.ipaf.org/safe)



## CALENDAR FILLING UP

As the global recovery from the pandemic continues, a return to 'in person' events is starting to fill the IPAF calendar. It kicks off with Vertical Days 2022 on 11th and 12th May. Come and visit the IPAF tent at the East of England Showground, Peterborough on Stand 619.

On September 14th IPAF will be at the Safety in Construction Show, Holywell Park Conference Centre, Loughborough, on Stand B14. September 15th is IPAF's Europlatform 2022 in Rome, Italy, and in October, we'll be at bauma in Munich, Germany.

Next year the IPAF Summit & awards dinner moves to Berlin, Germany on the 19th and 20th April. See: [www.ipaf.org/events](http://www.ipaf.org/events)

## IPAF GUIDANCE ON USING PLATFORMS IN PUBLIC AREAS

IPAF has published comprehensive guidance outlining the key principles and ways to reduce likely risks when using aerial lifts in public areas and near roads. **Safe Use of MEWPs in Public Areas** is available to view or download free of charge.

IPAF's Brian Parker said: "An increasing number of work platforms are being used in public areas that cannot be easily segregated from traffic or the general public creating a more challenging environment. Thanks to the input of Mark Keily of Sunbelt Rentals and the International Safety Committee, the guidance is the result of a global collaborative effort."



## RIWAL BECOMES IPAF SUSTAINING MEMBER

Rival has become the latest Sustaining Member of IPAF, the first rental and training company on a list that includes Alimak, Aon, Apex and Haulotte. Based in the Netherlands, Rival was founded in 1968 and has grown into a major access and telehandler rental and training company across 16 countries.

## NEW IPAF PRESIDENT

Karin Nars of Dinolift became the federation's first female president during IPAF's 2022 AGM. She replaces Norty Turner, who steps down having completed his term. Karel Huijser of JLG becomes deputy president and Kai Schliephake of Partnerlift, vice president.



New IPAF president team, Karel Huijser, Peter Douglas of IPAF, Karin Nars and Kai Schliephake

In her inaugural address Nars said: "I take pride in being the first woman president of IPAF. My father Lasse Godenhielm was president of IPAF at the turn of the millennium, and he always encouraged me to pursue my dreams. I never doubted I could achieve my dreams because I

was a woman. That's why I would like every girl and woman who wants to work in our industry to be offered that chance. I believe IPAF is in a good position to promote equal opportunities - I aim to use my voice as president to promote such a programme."

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# MEMBERSHIP MEETINGS REVIEW

Having engaged with members virtually for the previous two annual events, ALLMI has held its first physical General meetings since October 2019.

On 24th March the industry came together at the Marriott Hotel in Meriden, to receive updates and engage in discussion on topical issues affecting the lorry loader sector. Members also received a thought provoking presentation from Clare Jones, group procurement director for Mace, who facilitated shared learning by explaining how supply chain challenges have been tackled in the construction industry. At the close of the day, ALLMI chairman, Alan Johnson, presented a gift to Operators' Forum chairman, Steve Frazer-Brown, congratulating him on being elected for a 17th consecutive term.

Johnson said: "After two and a half years since our last physical meeting, it was great to be back in the same room together once again. Every member expressed their pleasure at being able to meet in person and to engage with their colleagues and peers both inside and outside the meeting. One noticeable benefit of holding the meetings in this format was the increased interaction or participation with all present, with some good discussions throughout the day on matters concerning lorry loader safety and good practice."

For details on membership of the association, please visit [www.allmi.com/membership](http://www.allmi.com/membership) or contact ALLMI.



## MORE MEMBERSHIP GROWTH

**Fleet management and funding specialist, Holman Fleet, has become the latest company to join ALLMI's membership.**

Holman Fleet's technical lead for Ancillary & Plant Equipment, Andrew York, said: "We have a long and successful history with the industry, having extensive experience of managing maintenance and repairs for large lorry loader fleets. We look forward to benefiting from ALLMI's expertise and guidance, which will help us to continually develop our technical competencies and keep abreast of legislative developments. We are also pleased to now be part of a major industry network and the most prominent voice in the UK lorry loader sector."

With ALLMI's 2021/22 financial year being a big success on the new member front, Holman Fleet

is the latest in a raft of companies to recently join the association.

ALLMI chief executive, Tom Wakefield said: "The industry recognises the value in dealing with an ALLMI member and the investment in quality the company will have made to have the right to display the ALLMI logo. Along with our numerous member services, this credibility provides us with an excellent membership model and is the reason we continually experience such strong retention and growth."

ALLMI provides membership for all companies involved with lorry loaders, including manufacturers/importers, installers, service companies, ancillary equipment suppliers and fleet operators. Annual subscriptions start at just £450. For more details visit [www.allmi.com/membership](http://www.allmi.com/membership)



## TRAINING LEVELS SOAR

ALLMI's recent AGM saw the announcement of record training levels for the year. Courses for Lorry Loader Operator, Crane Supervisor, Appointed Person and Manager all experienced their highest ever uptake during the association's 2021/22 financial year, with courses covering the roles of Slinger/Signaller, Thorough Examiner and Instructor also having an excellent 12 months, and training levels increasing by 30 percent overall.

ALLMI Technical Manager, Keith Silvester commented: "ALLMI has long been regarded as delivering the industry's leading training programmes for members of the lorry loader lifting team and these latest figures further underline the scheme's ever-increasing popularity."

Developed by the industry, for the industry, ALLMI's courses are approved by CSCS and mapped to the requirements of BS7121 Part 4, the British Standard for the Safe Use of Lorry Loaders. For further details, please visit [www.allmi.com/training](http://www.allmi.com/training) or contact ALLMI.

## STRAP DOWN YOUR LOADER CRANE! – REMINDER

In March, ALLMI launched its *Strap Down Your Loader Crane!* campaign. Emphasising the importance of strapping down a loader crane for travel (where it cannot be folded), the campaign provides a wide range of useful resources aimed at all companies involved with the movement of lorry loaders.

Please visit: [www.allmi.com/strap-down-your-loader-crane](http://www.allmi.com/strap-down-your-loader-crane)

## SMART CARD LAUNCHED

Following previous reports in ALLMI Focus, on 1st April the association launched its new smart ID card containing a QR code, which is compatible with the CSCS Smart Check app. At the point of implementation, all existing ALLMI cardholders were emailed a QR code, which should be carried with the ALLMI card when accessing construction sites. Alternatively, replacement cards containing a QR code can be purchased for a nominal fee.



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



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# PASMA LAUNCHES TOWERSURE

PASMA has unveiled TowerSure, its powerful tool for any organisation using tower scaffolds to work at height. It depends on two pieces of technology, a mobile app that tower erectors install on their phones. And a central management console for managers to log into from their computers.

Using the TowerSure technology means:

- Installers always inspect towers thoroughly, using PASMA approved checklists
- Their competence is checked against PASMA's training records each time they build a tower
- Photographs are taken of every tower assembled, every time it's inspected
- Inspection records are generated automatically and stored centrally in an electronic database
- Each tower is labelled with a QR code that anyone can use to check its inspection status
- Managers can spot check towers on any site and make sure it's safe, without leaving the office



## FREE TRIAL

Until September 2022, TowerSure is completely free of charge for everyone. After that, it will still be free for small businesses or solo users, while PASMA has committed to keeping it affordable for all. The association's remit is to ensure the industry has access to quality training, safe equipment and expert guidance. TowerSure will play an important role in helping the association achieve its mission: 'A world where every tower user goes home safe at the end of every shift, every time'.

PASMA invites Cranes & Access readers to trial TowerSure and share their feedback ahead of the full launch in September. Visit the TowerSure webpage for the information and links needed to get started: [www.pasma.co.uk/towersure](http://www.pasma.co.uk/towersure)

You can learn more about TowerSure via an online seminar:

[www.pasma.co.uk/scaffold-towers/on-demand-webinars](http://www.pasma.co.uk/scaffold-towers/on-demand-webinars)

## INSPECTING TOWERS

**Towers must be inspected after assembly and before first use. But just because a tower was stable and structurally sound before it was first used, doesn't mean it will stay that way. For that reason, you need to re-inspect the tower as often as is necessary to ensure safety. So, what does that mean in practice? Here are some rules to remember.**

Inspect your tower:

- After assembly
- After alteration
- After any event that could affect safety
- At least every seven days

Remember, it's up to you to decide how often to inspect a tower, it will depend on the frequency and conditions of use. This is down to the individual risk assessment. For example, if you're using a tower outdoors in winter or in a high-risk environment, you might decide to inspect it more frequently.

It's important that the person who does the inspection knows what a good tower looks like. In other words, they need to be competent to complete an inspection with the training, skills, knowledge and experience needed for the job. Tower inspections are actually quite simple to do, with the right training. They're modular, lightweight structures that come with instruction manuals.

A visual inspection from the ground is all that's needed to determine if a tower is safe to use or not. There's no need to physically inspect the fittings after the tower is assembled, although you should inspect the individual components prior to assembly.

## TRAINING

You can learn to build and inspect standard single bay mobile access towers on a PASMA Towers for Users course.

To build and inspect other configurations of towers, such as cantilever or linked towers, or low level access products, there are separate, dedicated PASMA courses for these.

Managers and supervisors can learn to inspect any standard configuration tower on a PASMA Towers for Managers course, aimed at anyone who is responsible for the safety of tower users but isn't assembling towers themselves. It doesn't matter if a tower is inspected by the same person who assembled it or by someone else. The key thing is that they've been trained on how to complete an inspection.

For more information on PASMA's training courses visit [www.pasma.co.uk/training](http://www.pasma.co.uk/training)



## BITESIZE SAFETY VIDEOS

Tower users and managers can benefit from bitesize safety messages, thanks to a new series of short videos from PASMA. The videos feature PASMA training instructors and manufacturers talking about different safety topics:

- How do you stop yourself falling while assembling a tower?
- How do you climb a tower?
- How do you choose a safe podium?
- Follow the bracing pattern
- How to stabilise a mobile access tower - and keep it that way.

- What's the maximum distance allowed between tower platforms?

In what has become an annual tradition, the short videos were filmed in training centres across the UK and released on social media during Tower Week.

You can watch all 23 videos, including six new ones at, [www.youtube.com/PASMA Ltd](http://www.youtube.com/PASMA Ltd)



**PASMA**  
pre-fabricated access suppliers' and manufacturers' association

[www.pasma.co.uk](http://www.pasma.co.uk)

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

# IN THE NEXT ISSUE OF

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## THIS ISSUE WILL INCLUDE FEATURES ON:

### TELEHANDLERS

We take a look at some of the latest technology coming into this fast-moving market, with new 360 degree machines, sub compacts and new power units.



### LOW LEVEL ACCESS

Always plenty of new developments with low level powered access. We will be covering push around scissor, self-propelled lifts mast and micro scissor lifts, including the latest product launches. If you have any news or information to add, get in touch now.

### REMOTE CONTROLS

This bi-annual feature looks at the latest developments in the design and use of remote controls for cranes, aerial lifts and telehandlers.



### ALL TERRAIN CRANES

We take a look at changes that have occurred over the past 12 months including a resurgent in two axle machines, electric power packs and the first electric drives.



### VERTIKAL DAYS REVIEW

The 15th Vertikal Days event returns to the East of England Showground, Peterborough on 11th and 12th May - moving back to its traditional time of the year following the more than two years of disruption. The show looks set to feature a number of new model launches, while other machines will be making their UK, European debuts. We will cover them all.



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

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

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# STARS OF THE FUTURE AWARDS 2022

Judging is currently well underway for the CPA Stars of the Future awards. The standard of entries is exceptional this year, with more than 70 nominations received from companies across the country, including rental companies, training providers, manufacturers, crane companies, contractors and others with apprentices and trainees in their workforce.

2022 marks the tenth year of the awards programme, with six national titles to be awarded - Plant Mechanic of the Year (Level 2), Plant Technician of the Year (Level 3), Plant Operative of the Year, Plant Installer of the Year, Lifting Technician of the Year and Hire Controller of the Year - as well as special awards including College of the Year, the Judges' Special Award and the Best Personal Statement.

This year, Stars of the Future has a two tier judging process - the CPA selection panel and a panel of external judges who will decide the eventual winners in each category. The CPA selection panel comprises chief Kevin Minton, Rob Squires, Peter Brown and Lisa Collins.

The external judging panel includes Arran Willis



of Liebherr GB, Siôn Morgan Jones of ACOP Group, Kirsty Archbold-Laming of Southern Hoist Services, Katie Kelleher of Select Plant, Leigh Sparrow of Vertikal Press, Graham Black of Earthmovers magazine, Tim Brownbridge of BAM Nuttall, Bob Harper of Sunbelt Rentals and independent judges Rob Allen and Gary Barnes.

The 2022 winners will be announced at a awards presentation at the Heart of England Conference and Events Centre in Fillongley on Thursday 7th July.

CPA Stars of the Future 2022 is sponsored by Sunbelt Rentals, ACOP, M O'Brien Plant Hire, Flannery Plant Hire, NOCN Group, L Lynch Plant Hire & Haulage, SMT GB, Liebherr and Wolffkran.



## IMECHE EVENTS

The CPA is supporting two events hosted by the Institution of Mechanical Engineers (IMechE) later this year.

The first is Construction Plant 2022 on 28th June in London. The event includes various speakers on how they are reducing emissions using different equipment propulsion systems. Also learn about developments in electric, hybrid and hydrogen fuelled applications, as well as sustainable fuels. [www.imeche.org/constructionplant2022](http://www.imeche.org/constructionplant2022).

The second event is Crane Safety 2022 in London on 13th September which will address the key challenges involved in carrying out safe crane operations. Presentations will cover recent lifting projects across a variety of projects and industries, together with technical insights and industry best practice to reduce the risk of incidents, maintain compliance with standards and make the most of new and novel technologies. Tickets can be booked online at [www.imeche.org/cranesafety](http://www.imeche.org/cranesafety). CPA members can benefit from a £50 saving on the non IMechE member rate by clicking on 'Supporting Organisation'.



## SAVE THE DATE

This year's CPA Conference will take place on Thursday 20th October 2022 at the Heart of England Conference and Events Centre.

The theme will be 'ESG - Driving Change:

How Environmental, Social & Governance Benefits Construction Plant Businesses.'

Delegate tickets are available to purchase at [www.cpa.uk.net](http://www.cpa.uk.net).



## NEW GUIDANCE FOR LIFTING LOADS WITH INTEGRAL LIFTING POINTS

A new Technical Information Note (TIN 053) has been devised by both the CPA Tower Crane Interest Group (TCIG) and the construction industry's Lead AP Group that deals with the issues associated with the lifting of loads with integral lifting points. Loads such as equipment and materials with integral lifting points are frequently lifted on construction sites. However, a range of questions frequently raised around the use and confidence on integral lift points safe include items such as:

- What is the distinction between an integral lifting point and a lifting accessory, should integral lifting points be thoroughly examined under LOLER and do integral lifting points have to be overload tested before first use?
- What type of inspections should be undertaken on integral lifting points, who should undertake the inspections, what is the scope of the inspections and how often should they be completed?
- When should a written record of an inspection be retained and what would constitute a suitable pre-use inspection prior to lifting?
- And finally, to what design codes or standards should integral lifting points be designed and constructed, and should integral lifting points be UKCA/CE marked?

TIN 053 has been written to provide answers and further clarification to the above questions in a concise, five page publication which can be downloaded free of charge at [www.cpa.uk.net/safety-and-technical-publications/tower-crane-guidance/tcig-technical-information-notes](http://www.cpa.uk.net/safety-and-technical-publications/tower-crane-guidance/tcig-technical-information-notes).



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# MAGNI HANDS OVER SCHOOL

Italian telehandler manufacturer Magni has set up a new school - the Pietro Magni primary school - in its home town of Cavazzona, Castelfranco Emilia. The foundation stone of the €1.6 million building was laid in January 2020 with the fully furnished and equipped building handed over to the Municipal Administration of Castelfranco Emilia. It includes five classrooms, a canteen, gymnasium and computer labs, while the layout also suits the hosting of community meetings or extra-curricular events.

It has been constructed to be as

sustainable as possible and has an A+ energy rating, while meeting or exceeding the latest anti-seismic standards.

Magni said: "This school is our way of saying thank you and paying tribute to the community while providing the facilities to educate the talents of tomorrow."



# TRIPLE FALL COSTS £213K

UK contractor St Modwen Homes has been fined £200,000, with costs of £13,332, following an incident in 2018 in which three bricklayers fell 2.5 metres to a concrete floor after a temporary stairwell cover gave way. The men sustained serious injuries including a broken back and sternum. The HSE found that the company did not identify or treat the cover as a work at height risk and failed to plan, manage or monitor its installation, inspection and maintenance.

# BRISBANE CORONER ISSUES SAFETY RECOMMENDATIONS

The coroner in Brisbane, Australia has issued a set of recommendations following the fatal overturn of a 70 metre truck mounted lift in 2015 which resulted in the death of Christopher Powell 41, while his son Brendan, 17, was seriously injured.

They were taking photographs of the views from the platform at a height of around 50 metres, for use by the developer of a high-rise apartment block scheduled for the site, for use with prospective buyers. The operator was controlling the machine from the ground, when one or more of the outriggers broke through the surface crust and began to sink into the soft ground below, causing the four axle platform to overturn.

Powell succumbed to his injuries within minutes

of hitting the ground, while his son suffered life changing injuries.

In the preceding inquest, witnesses confirmed that the initial inspection of the ground indicated that it was very solid and stable. The site had also been used for several weeks by heavy trucks and aerial work platforms and showed no signs of weakness. The inquest was told that the ground failure was attributed to a 'pie crust situation' following rain and the use of heavy machinery.

The men had been in the raised platform for around 20 minutes when the operator heard a noise and saw a hollow forming around the base of the outrigger pad. He radioed Powell, saying "I have to get you down now", but the outrigger jack accelerated into the ground and the platform began to tip. The platform spun around with the boom landing on a boundary fence while the platform landed in the street. Powell remained in the platform which his son was thrown clear.

Coroner Donald MacKenzie's recommendations have now been published in an 88 page report with the aim of preventing such incidents. MacKenzie said that he found a hiatus in the regulations covering elevated work platforms which has resulted in operators regularly setting up on ground where they only had a gut feeling that it was sufficiently solid to bear the weight and forces applied by the outrigger jacks. A key aspect of his recommendations is that operators of platforms weighing more than five tonnes or

# WHO TRAINED THEM THEN?

Spotted by a reader in Nicosia, Cyprus last month, a concrete pump that had set up in the street, blocking half the road, and then proceeded to unfold its boom over the live traffic and start pumping, with scant regard for the potential risk to those passing beneath.



# GOING UP IN THE WORLD



## A history of Simon Engineering, the development of the powered access industry and a lifetime as an engineer, by Denis Ashworth

Ashworth was a keen engineer and from an early age found himself in at the very start of the modern powered access industry.

His book is an unusual combination of autobiography and history of Simon Engineering Dudley, a pioneer of the powered access industry and at one time, the world's largest manufacturer of aerial lifts.

The coffee table sized book, is highly readable and includes around 150 photographs and drawings from the very beginning of the industry. It is a 'must read' for anyone who is interested in powered access, the hydraulic equipment industry or in comparing modern day engineering challenges with those of an entirely different era.

The book is available direct from the publishers at £19.50, plus £4.50 postage and packing.

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*As a transport load**Self-assembly in progress**Realistic profile**Tilting cab*

# TADANO GTC-1800EX /GTC-2000

**The real version of the 180 tonne Tadano GTC-2000 - 200 US ton - telescopic crawler crane, the GTC-1800EX internationally, made its debut at Bauma 2019 in Demag colours and has now been modelled by IMC in 1:50 scale. It comes in a Tadano branded box complete with an excellent manual and good quality tools.**

The metal tracks are fine quality and roll freely. They are mounted on extendible track frames, and the walkways telescope accordingly. It is also possible to remove the track frames to create transport loads. Four hydraulic jacks can be used to self-assemble the crane, and two metal carbody ballast boxes fit between the track frames.

The standard of detailing is high with small warning sign graphics giving a realistic appearance. The cab tilts to a good angle and a walkway extends out from under the cab.

The main boom lift cylinder has a metal barrel, and a grub screw can be tightened to lock the cylinder in an extended position. The profile of the telescopic boom is very good with inner sections having a two colour finish. Telescoping is smooth

and easy with a spring clip to lock each boom section at 45 percent or in the fully extended position.

A key is used to operate the winches. They are spring loaded with decent brakes, and winch motors are supplied as separate parts which can be plugged into the winch key holes so the model looks accurate.

The swingaway extension is metal with the luffing cylinders having plastic barrels. It can be carried on the side of the boom or fitted for use. In service, the extension offset angle can be altered by using the luffing cylinders which are stiff to operate.

A single metal three sheave hook block is included, and it is good. However, the model really needs a separate smaller hook to complement the extension.

In summary, this model is of a very good quality with a high metal content. The use of plastic is appropriate and executed well. A second hook block for use with the jib extension would be a welcome addition. It costs €229 at European dealers.

*Lifting a tram load. The single line hook block is not included with the model*

## CRANES ETC MODEL RATING

Packaging (max 10)	9
Detail (max 30)	26
Features (max 20)	18
Quality (max 25)	21
Price (max 15)	11
Overall (max 100)	85%

To read the full review of this model visit [www.cranesetc.co.uk](http://www.cranesetc.co.uk)

# READERS LETTERS

## RECOGNITION OF THE LATE PETER ORAM

The following letter is in response to a letter from Martin Ainscough in the last issue of the magazine in which he highlighted his achievements and called for the industry to honour the work that he did for crane safety. If anyone has any suggestions, we would be more than happy to help make it happen.

Dear Leigh

Just a brief note.

I must agree with Martin Ainscough 'Recognition for the late Peter Oram'.

Peter was also responsible for writing a new British Standard for Cranes - The Design and Safe use of Cranes. Aided mainly by Andy McDermott. Sorry that I don't have the full references to hand.

I met Peter in 1979 when he was reviewing and inspecting the J D White and also the Sparrows Demag TC 4000s. From memory of those days, it was felt prudent back then to have Peter - HM Chief Inspector involved. He was of course very able and helpful even though some felt he was not being so!

We - the industry and in particular I - learned a lot from him, and he was always very helpful. We became very good friends and met often.

I do not know if his lovely wife Diane is still around but hope that she is.

Kind regards

Barry Barnes

## IN MEMORIAM 2021-2022 IPAF SUMMIT

*At the recent IPAF awards dinner we helped produce an In Memoriam presentation in respect of all those who had passed away in the prior year. The following correspondence were sent to us following the event.*

Dear Leigh,

Thank you for the wonderful In Memoriam video that you arranged for the IPAF dinner last night, we often forget or overlook all those who we have all known and spent time with, many of them contributing massively to the development of the industry, especially in the early days.

I sincerely hope that this becomes something that you do every year. Hats off to whomever chose the music and timing, it brought a tear or two to my eye.

Many thanks

James

## NICHOLAS DAVIN

A point was also made to us that due to Covid having prevented live IPAF Summits since 2019, some of those that died just before the 2021-2022 period covered by our 'video' have 'missed out'.

One notable person that that was mentioned in particular was the late Nicholas Davin, one of the early pioneers of the self-propelled powered access industry in Europe, and most particularly Ireland. A past president of IPAF and one of the founders of the IPAF Ireland Council he died in 2020 at the age of 75.

His obituary and a tribute to his life can be found in the March 2020 issue of Cranes & Access

## TONY ANDREW THORNTON

1967-2022

**UK tree care specialist and powered access entrepreneur Tony Thornton has died. He passed away on the night of Saturday April 2nd, following a short battle with cancer, he was only 55.**

Tony Thornton started out on his career in 1985 working in the tree care business and having learnt the ropes began working for himself, spotting the potential of working with utility companies. He began winning contracts with SSE to survey its power lines, keeping them clear of tree limbs and maintaining the anti-climbing devices on poles. He spotted the potential for using powered access in his tree work early on and regularly rented machines from local suppliers. Everything changed in 2004 when he bought his first aerial lift, purchasing a 26 metre truck mounted lift from Facelift.

The following year he set up as a company in the form of Thornton Associates Tree Services and later that year added Affordable Access, to rent truck mounted platforms and spider lifts to

others in the tree care market.

In order to give himself an edge on his utility contracts he worked with companies such as CTE UK to develop specialist units such as a 20 metre CTE Z boom mounted on a Bimec 4x4 truck chassis.

In 2010 he took the next step when he established Sup Elephant UK and became the Sup Elephant truck mount and CMC spider lift dealer. In 2012 he took on the Comet truck mounted platform distribution for the UK and was joined by Phil Orwin. Cranes & Access editor Mark Darwin visited the fledgling operation and published an interview in the August September issue of the magazine See: See page 44 of issue 14.6.

While building the access business Thornton maintained his tree business - Thornton Associates Tree Services - and when SSE changed its contracts began offering barn installation services as Dunwood Construction, which would also using his aerial lifts and telehandlers. Long time associate Gary Whitfield



Tony Thornton

invested in Affordable Access in 2014 and took over the business fully in 2019. The company remains an active participant in the UK access market.

Tony Thornton was one of those people, you immediately warmed to and loved, or struggled with. A big man, his huge physical presence and direct manner intimidated some, but those who knew him spoke of a kind and gentle side to him that not everyone got to see. He leaves behind his wife Wendy, her two adult daughters, and the couple's young son Hayden.

**THOMAS WIESBAUER 1968-2022**

We have received the tragic news that **Thomas Wiesbauer, managing director of German crane rental and heavy transport company Wiesbauer died suddenly on Thursday 28th April while on holiday. He was only 53.**

He was the third generation of the Wiesbauer family to manage the business and has worked with the company since 1990. He managed the family business with his wife Sabine and brother Jochen, but had started to hand over more of the day to day responsibility for the business to his two adult children.

He has also been active in politics and was a

member of the municipal council in the company's home town of Bietigheim-Bissingen since 2004 and was elected president of the Ludwigsburger IHK regional chamber in 2021.

Mayor Jürgen Kessing on behalf of the town council of Bietigheim-Bissingen said: "His loss is a deep cut in his family, his company and in his voluntary work. The city of Bietigheim-Bissingen will always honour his memory."



*Thomas Wiesbauer*

"The German crane industry has lost a thoroughly decent individual, an imaginative and committed entrepreneur who put his heart and soul into everything he did.

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**ANTHONY DAVID STEEL 1938-2022**

**David Steel, formerly managing director of Coles Cranes, died on Friday 8 April after a short illness, just three weeks short of his 84th birthday.**

David was the son of James Steel and nephew of Eric Steel, the two brothers who established Sunderland-based Steels Engineering Products in 1943 as a subsidiary of family firm Steel & Co which had acquired Henry J. Coles Ltd in January 1939. David read English at the University of Oxford but on graduating he was articled to a firm of London accountants rather than joining the family firm. People who subsequently knew him will not be surprised to learn that he hated it, and in 1962 he quit accounting and joined Coles Cranes as a management trainee.

His father, by now Sir James Steel, the company chairman, insisted that he complete the full management induction programme, which involved spending time on the shopfloor at Sunderland, as well as working alongside both UK and international sales executives. His father had focussed on developing Coles export markets while Eric Steel was responsible for developing the Coles product line. In 1964, David was appointed UK sales manager and promoted to UK sales director in 1966.

In 1968 the company's name was changed to the British Crane and Excavator Corporation with a manufacturing and marketing arrangement with the Unit Crane & Shovel Company of Milwaukee, Wisconsin and the acquisition of excavator and crawler crane manufacturer Priestman Brothers of Hull the following year. A new factory was also built in Darlington to build Coles' traditional diesel electric cranes, while Sunderland focussed on telescopic truck cranes. In 1970 British Crane & Excavator name was dropped in favour of Coles Cranes

By 1972 Coles was the largest mobile crane manufacturer in Europe with four UK plants and facilities in Germany and Australia as well as licensed manufacturers in India and Poland. That year the company became the subject of an unwelcome takeover bid from Critall Hope, a subsidiary of merchant banker Slater Walker, which had an eye on Coles' undervalued assets.

David was part of the senior management team which fought the takeover and ultimately negotiated and accepted a 'white knight' offer from Bill de Vigier, founder and owner of the Acrow Group. Coles was a different kind of

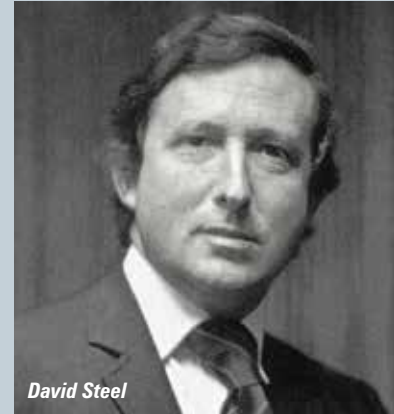
business to Acrow's other business, and once the takeover was completed, de Vigier looked for 'efficiency improvements', including cutting 300 from the Sunderland workforce. The result was a disastrous 13 week strike which badly damaged Coles business and reputation, leading to the resignations of several Coles directors. de Vigier recruited Bill Jacks as managing director, and in 1976 he appointed David as sales & marketing director, while recruiting Duncan Wordsworth to manage manufacturing operations. David created a revitalised marketing department with an emphasis on product benefits and worked closely with a young and energetic international sales team to build a solid presence in new and growing markets such as the Middle East and Eastern Europe.

Over the next few years, the company's manufacturing operations were substantially improved, with new fabrication, test, paint and research facilities This helped Coles retain and, in some cases, improve its market position, leading to the promotion of David Steel to managing director.

The strength of sterling and growing competition in the early 1980s imposed particular pressures on many UK manufacturing businesses, and while Coles managed to remain profitable, the Acrow Group became over extended and called in a liquidator in September 1984. David and his senior management team attempted to mount a management buyout, but struggled to develop a financially viable offer, and were thwarted by a superior and successful offer from Grove Manufacturing.

Grove's chief executive Martin Benchoff took an instant liking to David and retained him, initially in his role at Coles, while a merger of Grove's European operations with those of Coles was arranged. He later told the story of his experience of visiting the unemployment office with the intention of 'signing on' as unemployed, prior to the sale of Coles going through.

Once the merger went ahead Benchoff appointed David manager of the combined sales, marketing and distribution efforts of the business which was rebranded Grove-Coles. In 1987 Hanson acquired Grove's parent Kidde group, and while it divested themselves of several Kidde businesses, it surprisingly retained



*David Steel*

Grove. Steel remained for a while but had left the business by the early 1990s.

He then took up a London based role with JCB before joining York Trailers, neither of which seemed to suit him. His recruitment by the European Bank for Reconstruction and Development gave him a role to which he was much better suited, and where he was able to put to good use his knowledge of Eastern European markets as they developed, following the collapse of the Soviet Union. After several successful years with the bank, he retired in 2000. He is survived by wife Jane, children Harriet and Robin, and four grandchildren.

In the words of those who knew him well: "He will be fondly remembered by friends, former colleagues and customers around the world. It is perhaps, a mark of his success in building a dedicated, committed and successful team at Coles, that former employees still meet regularly in an organisation they call COBBLERS - the Coles Old Boys, Been Left and Early Retired Society, of which David was an enthusiastic member until his death. He will be greatly missed.



*David Steel hands over a 45 tonne Coles truck crane to Alf Sparrow of GW Sparrow Crane Hire in late 1977*



**IN MEMORY OF DAVID STEEL**

Dear Leigh

David Steel and I were colleagues, friends, and for a time he was my boss, for 60 years from the day on which we first met in 1962. To me, he combined the qualities of his warm hearted mother, Margaret, father, James (later Sir James), and his uncle, Eric, the human dynamo who directed Coles Cranes from the time that they were taken over by the Steel Group just before the start of WWII and manufacturing moved from Derby to Crown Works, Sunderland.

Eric died from a heart attack in 1956/7 at the early age of 49, and it was James who endorsed my appointment, fresh from National Service in the Royal Engineers and Oxford, with a degree in Jurisprudence, as export sales trainee in September 1957.

When David started his own career with Coles in 1962, he accompanied me on my London rounds of Communist country Embassies, in particular the Romanian one, where an astute man called Nicolae Cocos was surrounded by a battery of phones to which he kept answering: "I am in another line - please ring back in five minutes." My imitation of this caused David difficulty in keeping a straight face!

It was David, who found the true reason why I had left Coles for Hymac in 1965, to escape the devious machinations of my boss at the time, whom he eventually got rid of. He invited me to re-join the Steel Group as export manager for Priestman in 1970 and recommended to Bill de Vigier of Acrow that I be offered a seat on the Priestman board, which I held for 12 years until the Acrow collapse in 1984. Whenever he came to the Acrow head offices in Paddington, he would come into my office for a chat. I spent 1985 under a short term Contract with Sennebogen, but in 1986 he rescued me with the offer of a job looking after Poland and Communist Eastern Europe with Grove Coles at Harefield. After the offices were moved to Bicester, he allowed me partially to work from home, upon the basis of a Consultancy Agreement, as by then I was beginning to re-establish Grove in Poland, without the advantage of purchasing Polish components as Coles had done for years and Grove did not continue.

When Grove decided to close the Grove Coles offices and make changes to the local management including David's departure, I had just signed a Consultancy Agreement with him, to give me more independence, and Grove had little option to accept it, but my personal stock improved with them when I sold the last RT1650.



David Steel (R) with Vic Canham of Coles

David got a London based job with JCB and was therefore unable to take up a UK Government funded assignment to train Polish manufacturers in marketing and he recommended me, which helped the finances of Grabcranex, the fledgling post-Communist agency that my wife Audrey and I had started, and which struggled financially in its early years. During our respective retirement years, David and I (prior to Covid) met regularly for lunch in Oxford or at his comfortable Old Vicarage, where Jane often provided refreshments or lunch, to chat and reminisce and he generously endorsed my Memoir '40 Years a Salesman'. He was, in every sense, a true hearted gentle-man who will be sadly missed.

Dick Lloyd



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See the machine on stand 315 at Vertical Days on 11th & 12th May!

**REINHOLD BRÄUNER 1936-2022**

**We received the sad news that tower crane veteran and entrepreneur Reinhold Bräuner of MTI-Lux had died.**

He passed away on March 24th following heart failure while asleep at his home in Norway, he was 85.

Reinhold Bräuner was born in Stuttgart in 1936, the middle brother of three boys. His parents were not at all well off, so daily life involved few luxuries. At the age of eight as the war moved towards its final stages, he and his elder brother were evacuated to live with an uncle who ran a farm around 70km away as the bombing of Stuttgart and other large cities was stepped up. He never spoke much about the two years he spent on the farm, but the life seemed to have been crucial for his development and the way his life panned out. They were certainly tough years and his parents had to walk the 70km to see their children, something which they did once every six months.

After the war he moved back to Stuttgart and was enrolled in school where he appears to have done well, gaining sufficient results to qualify to study engineering. This led to him becoming a civil engineer and going to work for an elevator manufacturer, possibly C. Haushahn which was later acquired by Schindler. He then made a move into cranes, joining the design department Liebherr Biberach. He began to realise that being a design engineer was not really what he wanted from his working life, and when the opportunity to join Liebherr Export came along and the chance to move into sales, he jumped at it.

It proved to be the kind of work which suited him 100 percent, he travelled a lot and was very happy and also successful, selling cranes all over Europe. When the 'oil adventure' took off in Norway at the beginning of the 1970s he spent time in Oslo, helping with the provision of cranes building the first offshore platforms for the Norwegian sector of North Sea. Bräuner, now in his early 30s was "enthusiastic out of his mind about the development of the Norwegian oil industry."

In 1977 he married a Norwegian girl Grete and promptly whisked her off to Brazil after Liebherr offered him a posting as a sales director. The couple remained in Brazil for the next three years, during which time their daughter Christine was born. By the time his three year contract came to end, the Brazilian economy and political situation had entered a challenging period and with a young daughter to take care of the couple made the decision to move back to the relative stability of Europe. Reinhold managed to land a job with German tower crane manufacturer Peiner as sales manager. They settled in the town of Peine between Hanover and Brunswick, where Peiner Schraubenwerke AG, as it was formally known, was based.

In 1986 the company began to cut back its activities to a single plant in Trier, so the couple relocated to the town in the Moselle



Reinhold Bräuner

wine region, near the Luxembourg border. He continued to work for the company until the next cutbacks. By then his wife Grete had started her own business - MTI - Machine Trading International - selling cranes in Germany and Scandinavia. As she says: "MTI was more of a hobby than a business, and I ran it from home near Trier, but in actual fact my activities were not unsuccessful, so we decided that Reinhold would join me in selling used and new cranes."

When the next downward cycle in the crane business came along the couple were obliged to extend their sales worldwide, which led to them working with the banks in Luxembourg, and able to raise letters of credit quickly and easily. The business took off and in the years that followed the couple sold a lot of Jost cranes in the UK, while buying and selling used cranes all around the world, including the USA, UK, South Korea, Australia, Thailand, Singapore and many others. Three employees joined them including engineer, Thomas Reschke. The name was also changed to MTI-Lux, when the two moved the business to Luxembourg.

When the financial crisis hit in 2008 the crane industry took a hit, including MTI-Lux. As the crisis bit Grete and Christine - who was by then working in the business alongside her parents

- decided to exit the crane market and do something less cyclical. Grete returned to her translation business, while Christine eventually decided to start a new life in Norway.

In late 2010 Bräuner launched his own flat top crane line under the Lux Cranes brand, which he had built in the same Arneburg steel fabrication plant in Germany as Jost. In 2014 after Jost had some issues with its cranes, he launched the Lux Cranes line of hydraulic luffers. After several years of travelling back and forth between Germany and Norway to spend time with daughter Christine and the arrival of Covid 19, the couple decided to join her in Norway, moving in April last year buying a house in Tromøya on the east coast south of Oslo towards Kristiansand and not far from the holiday home that they owned.

Reinhold Bräuner leaves behind his wife Grete, daughter Christine and three daughters from a former marriage, Susanne, Sabine and Beate, along with six grandchildren - three boys and three girls.



# WHAT'S ON

## 2022

### Swissbau

3-6th May 2022  
Swiss construction exhibition  
Basel, Switzerland  
Tel: +41 58 200 20 20  
www.swissbau.ch



### Vertikal Days 2022

May 11-12 UK/Ireland Crane, access and telehandler event. East of England showground, Peterborough  
Tel: +44 (0) 8448 155900  
www.vertikaldays.net



### Innovationstage der Höhenzugangstechnik

May 24-25, 2022  
Aerial lift Innovation Days, an informal event for access equipment, cranes & telehandlers  
Hohenroda, Hessen Hotel Park, Germany  
www.borntolift.de/innovationstag/



### Hire 22

May 25-26, 2022  
Annual convention and exhibition of the Hire and Rental Association of Australia and the Elevating Work Platform Association Adelaide, Australia  
Tel: +61 (0)2 9998 2255  
www.hire21.com.au



### Interschutz 2022

June 20 -25 2022  
International fire and rescue show  
Hannover, Germany  
Tel: +49 511 89-0  
www.interschutz.de



### JDL Expo

June 22-24, 2022  
French cranes and access exhibition  
Beaune, France  
Tel: +33 (0)1 45 63 68 22  
www.jdlexpo.com



### Safety Summit

18.-23. July 2022  
New exhibition and conference about occupational safety  
Blaustein-Dietingen, Germany  
Tel: +49 7304 43766-0  
www.safety-summit.info



### The International Offshore Crane And Lifting Conference 2022

August 30 - September 01, 2022  
The 25th annual conference on offshore lifting organised by the Norwegian Society of Lifting Technology in cooperation with the Offshore Mechanical Handling Equipment Committee (OMHEC) Aberdeen, Scotland  
Tel: +47 67 52 60 10  
www.liftingoffshore.com



### Crane Safety 2022

September 13 2022 Crane safety conference organised by the Institution of Mechanical Engineers & supported by the Vertical Press London, UK  
Tel: +44 (0)207 973 1251  
www.events.imeche.org

### Glasstec

September 20-23, 2022  
The event for glass from manufacture through to lifting and installing glass panels and windows  
Düsseldorf, Germany  
Tel: +49 211 456001  
www.glasstec-online.com



### HCEA International Convention and Old Equipment Exposition

September 23-25, 2022  
The Historical Construction Equipment Association's convention and expo  
Bowling Green, Ohio, USA  
Tel: +1 785 243 0083  
www.hcea.net



### CICA Conference 2022

October, 2022- date to be confirmed  
The annual conference of the Australian crane association - possibly the best crane conference in the world.  
Tel: +61 03 8320 0411  
www.cica.com.au



### Liftex conference

October 5-6 2022  
Annual conference of LEEA Lifting Equipment Engineers Association  
Aberden, UK  
Tel: +44 (0) 203 488 2865  
www.liftex.org



### Bauma 2022

October 24 -30th 2022 World's largest construction equipment exhibition,  
Munich, Germany  
Tel: +49 (0) 89 51070  
www.bauma.de



### SC&RA Annual Conference

October 25-29, 2022  
Annual Conference of the US cranes and heavy transport association  
Washington DC, USA  
Tel: +1 (703) 698-0291  
www.scranet.org



### Bauma China 2022

November 24-27, 2022  
SNIIEC Shanghai, China  
Tel: +49 (0)89-9492051  
www.bauma-china.com



### Bauma Conexpo India

December 06-09, 2022  
The bauma/Conexpo exhibition in India  
Delhi, India  
Tel: +49 89 949-20255  
www.bcindia.com



## 2023

### Baumag

January 26-29, 2023 Swiss construction equipment show Lucerne, Switzerland  
Tel: +41 56 204 20 20  
www.baumaschinen-messe.ch/htm/home.htm



### The ARA Show 2023

February 12-15, 2023  
the American Rental Association's annual conference and exhibition  
Orlando, Florida, USA  
Tel: +1800 334 2177  
www.arashow.org



### Conexpo-Con/Agg 2023

March 14-18, 2023  
The leading US construction show  
Las Vegas, Nevada, USA  
Tel: +1 414-298-4133  
www.conexpoconagg.com



### Samoter

March, 2023  
International earthmoving and building equipment show Verona, Italy  
Tel: +39 045 8298111  
www.samoter.it/it



### The IPAF Summit and awards

April 20, 2023  
Annual Summit and IPAs awards ceremony of the International Powered Access Federation Berlin  
Tel: +44(0)15395 66700  
www.ipaf.org



### Smopyc 2023

April 2023 Dates to be confirmed  
Spanish construction equipment exhibition Zaragoza, Spain  
Tel: +34 976 764 700  
www.feriazaragoza.com/smopyc



### Apex 2023

June 06-08, 2023  
International powered access trade show Maastricht, The Netherlands  
Tel: +31 (0)547 271 566  
www.apexshow.com



### Platformers' Days 2023

September 8-9 German access and lifting show Karlsruhe, Germany  
Tel: +49 721 3720 5096  
www.platformers-days.de



### GIS

Date to be confirmed  
Italian crane, access and heavy transport exhibition Piacenza, Italy  
Tel: +39 010/5704948  
www.gisexpo.it



### The Utility Expo

September 26 - 28th 2023  
Previously The International Construction & Utility Equipment Exposition /Demo Expo - is the US utility industry's largest show  
Louisville, Kentucky, USA  
Tel: +1 414-274-0644  
www.theutilityexpo.com



## 2024

### Mawev 2024

April 10-14, 2024  
Austrian construction Exhibition  
St. Pölten, Austria  
Tel: +43 316 8088 216  
www.mcq.at/events/mawevshow



### Intermat 2024

April 22-27 2024  
The big French international construction equipment show  
Paris, France  
+33 (0)1 76 77 15 21  
www.paris.intermatconstruction.com



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AMBITIOUS? THE UK'S FASTEST GROWING ACCESS RENTAL SPECIALIST ARE NOW RECRUITING FOR THE FOLLOWING POSITIONS:

**SALES MANAGER**  
**FULL TIME POST**  
**£36 - 40K + COMPANY VEHICLE**  
 IF YOU HAVE A PASSION FOR GROWING BUSINESS & CUSTOMER SERVICE, THIS IS THE JOB FOR YOU...

**MOBILE POWERED ACCESS ENGINEER (CAP)**  
**FULL TIME**  
**£41-45K + OVERTIME & COMPANY VAN**  
 IF YOU WANT TO WORK WITH THE LATEST MODELS, ON A MODERN FLEET, THIS IS THE JOB FOR YOU...



- HIRE FROM 4' TO 125', ANY PLACE, ANY TIME!
- BOOMS, SCISSORS, TELEHANDLERS & EVERYTHING IN BETWEEN!
- TRAINING, PPE & SITE SURVEYS
- MAINTENANCE & SERVICING OF CUSTOMERS OWN MACHINES

AWARD WINNING TRAINING

IPAF

**BOTH POSTS INCLUDE:**  
 \* PERFORMANCE RELATED BONUS  
 \* BUPA PRIVATE HEALTHCARE COVER  
 \* COMPANY VEHICLE  
 \* PENSION SCHEME

FOR MORE INFORMATION, CONTACT CONFIDENTIALLY  
[DANSTEWART@EAGLEPLATFORMS.COM](mailto:danstewart@eagleplatforms.com)



Manitowoc is an International company building products that lead the world in the cranes equipment sectors. If you're up to the challenge, we'll offer you real opportunities for career growth in our locations all over the world. Build your career and your future at Manitowoc as an

**AREA SALES MANAGER for our GROVE product range**

Key responsibilities:

- To create, build and maintain relationships with customers and promote sales of Grove and product.
- Communicate market intelligence to the Marketing Department via Senior Management
- Liaise with both Sales and Customer support teams regarding any product sales and service issues
- To promote the Sale of Used Cranes
- To assist with forecasting sales quantities, types and values

To be successful in this role you need to:

- Have Knowledge of Mobile Cranes/Capital Equipment Sales
- Be well organized, self motivated and able to work on own initiative/under pressure
- Manage existing and identify new customers
- Be confident in negotiation
- Hold a Full UK Driving Licence
- Be a good communicator with reasonable computer skills and numerical literacy

To find out more about this position.

**CONTACT**

Manitowoc Crane Group (UK) Ltd  
 Human Resource Dept  
 Manitowoc House,  
 Network 421  
 Radcliffe Road  
 Buckingham  
 MK18 4FD

Tel: +44 (0)1290 818832

[anne.stuart@manitowoc.com](mailto:anne.stuart@manitowoc.com)  
[www.manitowoc.com](http://www.manitowoc.com)

## EXPERIENCED FITTER / MECHANIC


**Crane Hire Ltd is an independent mobile crane hire company based in Ireland.**

We are currently recruiting an experienced, qualified fitter / mechanic to join our team based at our main Dublin depot.

Excellent salary & conditions are on offer to suitable candidate. Application to the Service Manager.  
 email [administration@cranehireltd.com](mailto:administration@cranehireltd.com)

Send E-mail  
[cranehireltd.com](http://cranehireltd.com)





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Join online and learn more about us at [www.hcea.net](http://www.hcea.net).

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## ACCESS EQUIPMENT MANUFACTURERS

AIRO	<a href="http://www.airo.com">www.airo.com</a>
Alimak	<a href="http://www.alimak.com">www.alimak.com</a>
Almac	<a href="http://www.almac-italia.com">www.almac-italia.com</a>
ATN	<a href="http://www.atnplatforms.com">www.atnplatforms.com</a>
Böcker	<a href="http://www.boecker.de">www.boecker.de</a>
Bravi	<a href="http://www.braviisol.com">www.braviisol.com</a>
Bronto Skylift	<a href="http://www.brontoskylift.com">www.brontoskylift.com</a>
CLM Construction Supplies	<a href="http://www.clm-supplies.com">www.clm-supplies.com</a>
CMC	<a href="http://www.cmclift.com">www.cmclift.com</a>
CPL	<a href="http://www.cumberlanduk.co.uk">www.cumberlanduk.co.uk</a>
CTE	<a href="http://www.ctelift.com">www.ctelift.com</a>
Denka-Lift	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
Dino Lift	<a href="http://www.dinolift.com">www.dinolift.com</a>
Dingli	<a href="http://www.cndingli.com">www.cndingli.com</a>
Easylift	<a href="http://www.easy-lift.it">www.easy-lift.it</a>
Falcon Lifts	<a href="http://www.falconlifts.com">www.falconlifts.com</a>
GEDA	<a href="http://www.geda.de">www.geda.de</a>
Genie	<a href="http://www.genielift.com">www.genielift.com</a>
GSR	<a href="http://www.gsrspa.it">www.gsrspa.it</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
Hinowa	<a href="http://www.hinowa.com">www.hinowa.com</a>
Holland Lift	<a href="http://www.hollandlift.com">www.hollandlift.com</a>
Imer Access	<a href="http://www.imergroup.com">www.imergroup.com</a>
Iteco	<a href="http://www.imergroup.com">www.imergroup.com</a>
JCB	<a href="http://www.jcb.com">www.jcb.com</a>
JLG	<a href="http://www.jlg.com">www.jlg.com</a>
Klaas	<a href="http://www.klaas.com">www.klaas.com</a>
Klubb France	<a href="http://www.klubb-france.fr">www.klubb-france.fr</a>
Leguan Lifts	<a href="http://www.leguanlifts.com">www.leguanlifts.com</a>
Manitou Group	<a href="http://www.manitou.com">www.manitou.com</a>
Omme Lift	<a href="http://www.ommelift.com">www.ommelift.com</a>
Palazzani Industrie	<a href="http://www.palazzani.it">www.palazzani.it</a>
Palfinger Platforms	<a href="http://www.palfinger-platforms.com">www.palfinger-platforms.com</a>
Platform Basket	<a href="http://www.platformbasket.com">www.platformbasket.com</a>

Ruthmann	<a href="http://www.ruthmann.de">www.ruthmann.de</a>
Sinoboom	<a href="http://www.sinoboom.com">www.sinoboom.com</a>
Saeclimber	<a href="http://www.saeclimber.com">www.saeclimber.com</a>
Skyjack	<a href="http://www.skyjack.com">www.skyjack.com</a>
Snorkel	<a href="http://www.snorkellifts.com">www.snorkellifts.com</a>
Socage	<a href="http://www.socage.it">www.socage.it</a>
Teupen	<a href="http://www.teupen.com">www.teupen.com</a>
Versalift UK	<a href="http://www.versalift.co.uk">www.versalift.co.uk</a>
Zoomlion	<a href="http://en.zoomlion.com">http://en.zoomlion.com</a>

## PLATFORM RENTAL

AA Access (Specialists)	<a href="http://www.aaaccess.co.uk">www.aaaccess.co.uk</a>
Acrolift	<a href="http://www.acrolift.co.uk">www.acrolift.co.uk</a>
Ahern Rentals - USA	<a href="http://www.ahern.com">www.ahern.com</a>
AFI- Uplift	<a href="http://www.afi-uplift.co.uk">www.afi-uplift.co.uk</a>
Dragon Access	<a href="http://www.dragon-access.co.uk">www.dragon-access.co.uk</a>
Drammen Liftutleie AS	<a href="http://www.drammenlift.no">www.drammenlift.no</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
Kran Cranes	<a href="http://www.kran.ro/inchiriere-macara-constantanta">www.kran.ro/inchiriere-macara-constantanta</a>
Rental Romania	
Monitor Lifts - AUS	<a href="http://www.monitor.net.au">www.monitor.net.au</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>
Platform Sales & Hire	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Power Platform Services	<a href="http://www.pps.co.uk">www.pps.co.uk</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
Warren Access	<a href="http://www.warrenaccess.co.uk">www.warrenaccess.co.uk</a>

## NEW & USED PLATFORMS

Access Platform Sales (APS)	<a href="http://www.accessplatforms.co.uk">www.accessplatforms.co.uk</a>
AFI Resale	<a href="http://www.afi-resale.co.uk">www.afi-resale.co.uk</a>
A.J. Access Platforms	<a href="http://www.accessplatforms.com">www.accessplatforms.com</a>
Genie	<a href="http://www.genielift.com">www.genielift.com</a>
GSR Aerial Platforms UK	<a href="http://en.gsrspa.it">http://en.gsrspa.it</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
Independent Access Sales	<a href="http://www.iasales.co.uk">www.iasales.co.uk</a>

International Platforms	<a href="http://www.internationalplatforms.co.uk">www.internationalplatforms.co.uk</a>
INTEQ UK and UAE	<a href="http://www.inteq.uk">www.inteq.uk</a>
JLG	<a href="http://www.jlg.com">www.jlg.com</a>
JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
Kunze GmbH	<a href="http://www.kunze-buehnen.com">www.kunze-buehnen.com</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>
Rothlehner	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
Platform Sales	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Promax Access	<a href="http://www.promaxaccess.com">www.promaxaccess.com</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
TVH - Group	<a href="http://www.tvh.com">www.tvh.com</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>

## CRANE MANUFACTURERS

Böcker	<a href="http://www.boecker.de">www.boecker.de</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladercranes.com">www.ernestdoeladercranes.com</a>
Grove	<a href="http://www.groveworldwide.com">www.groveworldwide.com</a>
Jaso Tower Cranes	<a href="https://jaso.com">https://jaso.com</a>
Jekko Minicrane	<a href="http://www.jekko.it">www.jekko.it</a>
JMG	<a href="http://www.jmgcranes.com">www.jmgcranes.com</a>
KATO	<a href="http://www.rivertekservices.com">www.rivertekservices.com</a>
Klaas	<a href="http://www.klaas.com">www.klaas.com</a>
Kobelco	<a href="http://www.kobelcocm-global.com">www.kobelcocm-global.com</a>
Liebherr	<a href="http://www.Liebherr.com">www.Liebherr.com</a>
Linden Comansa	<a href="http://www.comansa.com">www.comansa.com</a>
Maeda	<a href="http://www.maedaminicranes.co.uk">www.maedaminicranes.co.uk</a>
Manitowoc	<a href="http://www.manitowoccranes.com">www.manitowoccranes.com</a>
Potain	<a href="http://www.manitowoccranes.com">www.manitowoccranes.com</a>
Raimondi	<a href="http://www.raimondi.com">www.raimondi.com</a>
Spierings	<a href="http://www.spieringskranen.nl">www.spieringskranen.nl</a>
Tadano	<a href="http://www.tadano.com">www.tadano.com</a>
Tadano Faun	<a href="http://www.tadano.com">www.tadano.com</a>
Tadano Demag	<a href="http://www.demagmobilecranes.com">www.demagmobilecranes.com</a>
Unic Cranes	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
Valla	<a href="http://www.valla-cranes.co.uk">www.valla-cranes.co.uk</a>
Wolffkran	<a href="http://www.wolffkran.de">www.wolffkran.de</a>
Zoomlion	<a href="http://www.zoomlioncranes.co.uk">www.zoomlioncranes.co.uk</a>

## LORRY/TRUCK LOADER CRANES

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladercranes.com">www.ernestdoeladercranes.com</a>
Palfinger	<a href="http://www.palfinger.com">www.palfinger.com</a>

## NEW & USED CRANES

Cotac Oy	<a href="http://www.crane.fi">www.crane.fi</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
Delden Cranes	<a href="http://www.deldencranes.co.uk">www.deldencranes.co.uk</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeladercranes.com">www.ernestdoeladercranes.com</a>
HighSparks	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
Kobelco	<a href="http://www.kobelco-cranes.com">www.kobelco-cranes.com</a>
Rivertek Services	<a href="http://www.rivertekservices.com">www.rivertekservices.com</a>
Terex Demag	<a href="http://www.terex-cranes.com">www.terex-cranes.com</a>
Valla	<a href="https://valla-cranes.co.uk">https://valla-cranes.co.uk</a>

## CRANE HIRE

Cadman Cranes	<a href="http://www.cadmancranes.com">www.cadmancranes.com</a>
Cork Crane Hire (Liverpool)	<a href="http://www.corkcranehire.com">www.corkcranehire.com</a>
Delden Cranes	<a href="http://www.deldencranes.co.uk">www.deldencranes.co.uk</a>
HighSparks	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
Hovago	<a href="http://www.hovago.com">www.hovago.com</a>
John Sutch Cranes	<a href="http://www.johnsutchcranes.co.uk">www.johnsutchcranes.co.uk</a>
Kran Cranes	<a href="http://www.kran.ro/inchiriere-macara-constantanta">www.kran.ro/inchiriere-macara-constantanta</a>
Rental Romania	
Ladybird Tower Crane Hire	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>
McNally Crane Hire	<a href="http://www.cranehire-ireland.com">www.cranehire-ireland.com</a>
Sangwin	<a href="http://www.sangwin.co.uk">www.sangwin.co.uk</a>
Schaften Leasing B.V.	<a href="http://www.schaftenleasing.nl">www.schaftenleasing.nl</a>

## MINI CRANE HIRE

GGR	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
JT Mini Crane Hire	<a href="http://www.jtminicranes.co.uk">www.jtminicranes.co.uk</a>
Lift Limited	<a href="http://www.liftminicranehire.co.uk">www.liftminicranehire.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>

## SELF ERECTING TOWER CRANES

Cork Crane Hire	<a href="http://www.corkcranehire.com">www.corkcranehire.com</a>
John Sutcliff Cranes	<a href="http://www.johnsutcliffcranes.co.uk">www.johnsutcliffcranes.co.uk</a>
Ladybird Tower Crane Hire	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>

## TOWER CRANES

HighSparks	<a href="http://www.highsparks.co.uk">www.highsparks.co.uk</a>
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## FURNITURE HOISTS

Böcker	<a href="http://www.boecker.de">www.boecker.de</a>
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## TELEHANDLER MANUFACTURERS

Dieci Telehandlers Ltd	<a href="http://www.dieci-telehandlers.co.uk">www.dieci-telehandlers.co.uk</a>
Faresin	<a href="http://www.faresindustries.com">www.faresindustries.com</a>
Genie	<a href="http://www.genielift.com">www.genielift.com</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
JLG	<a href="http://www.jlg.com">www.jlg.com</a>
Magni	<a href="http://www.magnith.com">www.magnith.com</a>
Manitou Group	<a href="http://www.manitou.com">www.manitou.com</a>
Skyjack	<a href="http://www.skyjack.com">www.skyjack.com</a>
Snorkel	<a href="http://www.snorkellifts.com">www.snorkellifts.com</a>
Merlo	<a href="http://www.merlo.co.uk">www.merlo.co.uk</a>

## NEW & USED TELEHANDLERS

Dieci Telehandlers	<a href="http://www.dieci.com">www.dieci.com</a>
GT Lifting Solutions	<a href="http://www.gtlift.co.uk">www.gtlift.co.uk</a>
TVH Group	<a href="http://www.tvh.com">www.tvh.com</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>

## TELEHANDLER RENTAL

GT Lifting Solutions	<a href="http://www.gtliftingltd.co.uk">www.gtliftingltd.co.uk</a>
JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>

## SCAFFOLD TOWERS

CLM Construction Supplies	<a href="http://www.clm-supplies.com">www.clm-supplies.com</a>
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## MASTCLIMBERS & HOISTS

Alimak	<a href="http://www.alimak.com">www.alimak.com</a>
CLM Construction Supplies	<a href="http://www.clm-supplies.com">www.clm-supplies.com</a>
GEDA	<a href="http://www.geda.de">www.geda.de</a>
Klaas	<a href="http://www.klaas.com">www.klaas.com</a>
Saeclimber	<a href="http://www.saeclimber.com">www.saeclimber.com</a>

## SPECIAL/BESPOKE ACCESS & LIFTING SOLUTIONS

Access Platform Sales (APS)	<a href="http://www.accessplatforms.co.uk">www.accessplatforms.co.uk</a>
GT Lifting Solutions	<a href="http://www.gtliftingltd.co.uk">www.gtliftingltd.co.uk</a>
JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
Platform Sales & Hire	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Warren Access	<a href="http://www.warrenaccess.co.uk/hire">www.warrenaccess.co.uk/hire</a>
Working At Height Ltd	<a href="http://www.workingatheightltd.com">www.workingatheightltd.com</a>

## SPECIAL & NICHE ACCESS

Acrolift	<a href="http://www.acrolift.co.uk">www.acrolift.co.uk</a>
DENKA Narrow	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
Smart Platform Rentals	<a href="http://www.smartplatforms.co.uk">www.smartplatforms.co.uk</a>

## SPECIAL LIFT & TRANSPORT EQUIPMENT

Collett A Sons, UK	<a href="http://www.collett.co.uk">www.collett.co.uk</a>
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## HEAVY TRANSPORT/ABNORMAL LOADS

Collett A Sons, UK	<a href="http://www.collett.co.uk">www.collett.co.uk</a>
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## SELF-PROPELLED MODULAR TRANSPORTERS

Collett & Sons, UK	<a href="http://www.collett.co.uk">www.collett.co.uk</a>
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## SITE SAFETY AUDITS

Alfa Access Services	<a href="http://www.alfa-access-services.com">www.alfa-access-services.com</a>
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## INDUSTRY ASSOCIATIONS

ALLMI	<a href="http://www.allmi.com">www.allmi.com</a>
CICA	<a href="http://www.cica.com.au/">www.cica.com.au/</a>
CISRS	<a href="http://www.cisrs.org.uk">www.cisrs.org.uk</a>
CPA	<a href="http://www.cpa.uk.net">www.cpa.uk.net</a>
EWPA	<a href="http://www.ewpa.com.au">www.ewpa.com.au</a>
IPAF	<a href="http://www.ipaf.org">www.ipaf.org</a>
NASC	<a href="http://www.nasc.org.uk">www.nasc.org.uk</a>
OSHA	<a href="http://www.osha.gov">www.osha.gov</a>
PASMA	<a href="http://www.pasma.co.uk">www.pasma.co.uk</a>

## HEAVY LIFT MANAGEMENT

DWLS	<a href="http://www.dwls.co.uk">www.dwls.co.uk</a>
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## HEAVY LIFT PLANNING & RISK ANALYSIS

DWLS	<a href="http://www.dwls.com">www.dwls.com</a>
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## AUCTION HOUSES

Ritchie Brothers	<a href="http://www.rbaction.com">www.rbaction.com</a>
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## BATTERY SUPPLIERS & MANUFACTURERS

DC Battery Technologies	<a href="http://www.dcbattery.tech">www.dcbattery.tech</a>
Leoch Battery UK	<a href="http://www.leochbattery.co.uk">www.leochbattery.co.uk</a>
Platinum International Ltd	<a href="http://Platinuminternational.co.uk">Platinuminternational.co.uk</a>

## LOAD CELLS & LOAD MONITORING SYSTEMS

PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>
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## CONTROL SYSTEMS

MOBA Automation	<a href="http://www.moba.de">www.moba.de</a>
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## GENERATOR SALES & RENTAL

JMS Powered Access	<a href="https://jms.co.uk">https://jms.co.uk</a>
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## ONLINE TECHNICAL HELP

Crane Tools	<a href="http://www.cranetools.com">www.cranetools.com</a>
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## OUTRIGGER PADS, MATS & ROADWAYS

Brilliant Ideas / Alimats	<a href="https://brilliantideasltd.co.uk/alimats/">https://brilliantideasltd.co.uk/alimats/</a>
DAWSON-WAM Steel Mat Hire	<a href="http://www.SteelMatHire.co.uk">www.SteelMatHire.co.uk</a>
Mat & Timber Services	<a href="http://www.sarumhardwood.co.uk">www.sarumhardwood.co.uk</a>
Nolim	<a href="http://www.nolim.co.uk">www.nolim.co.uk</a>
Outriggerpads	<a href="http://www.outriggerpads.co.uk">www.outriggerpads.co.uk</a>
Timbermat	<a href="http://www.timbermat.co.uk">www.timbermat.co.uk</a>
TMC lifting supplies	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
Universal Crane Mats	<a href="http://www.universal-crane-mats.com">www.universal-crane-mats.com</a>
Welex Group	<a href="http://www.welexgroup.com">www.welexgroup.com</a>

## COMPONENT SUPPLIERS

PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>
Tele Radio Group	<a href="http://www.tele-radio.com">www.tele-radio.com</a>

## WIRE ROPE & CABLE

Rope and Sling	<a href="http://www.ropeandsling.co.uk">www.ropeandsling.co.uk</a>
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## PARTS & SERVICE SUPPLIERS

Alfa Access Services	<a href="http://www.alfa-access-services.com">www.alfa-access-services.com</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
Ernest Doe & Sons Ltd.	<a href="http://www.ernestdoeloadercranes.com">www.ernestdoeloadercranes.com</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
IPS	<a href="http://www.ipspartsonline.com">www.ipspartsonline.com</a>
JLG	<a href="http://www.jlg.com">www.jlg.com</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
OTR Wheel Engineering Europe	<a href="http://www.otrwheel.co.uk">www.otrwheel.co.uk</a>
PCE Instruments UK Ltd	<a href="http://www.pce-instruments.com">www.pce-instruments.com</a>
TVH - Group Thermote & Vanhalst	<a href="http://www.tvh.be">www.tvh.be</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>

## RECRUITMENT

Vertikal.Net	<a href="http://www.vertikal.net/en/recruitment">www.vertikal.net/en/recruitment</a>
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## SAFETY EQUIPMENT

Load Systems UK Ltd	<a href="http://www.loadsystems.co.uk">www.loadsystems.co.uk</a>
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## RENTAL MANAGEMENT SOFTWARE

Higher Concept	<a href="http://www.higherconcept.co.uk">www.higherconcept.co.uk</a>
HireHop Equipment Rental Software	<a href="http://www.hirehop.co.uk">www.hirehop.co.uk</a>
HireHop Equipment Rental Software	<a href="http://www.hirehop.com">www.hirehop.com</a>
Infosystem	<a href="http://www.levaplus.ch">www.levaplus.ch</a>
inspHire	<a href="http://www.inspire.com">www.inspire.com</a>
Matusch GmbH	<a href="http://www.matusch.de">www.matusch.de</a>
MCS Rental Software	<a href="http://www.mcsrentalsoftware.com">www.mcsrentalsoftware.com</a>
vWork	<a href="http://www.vworkapp.com">www.vworkapp.com</a>

## STRUCTURAL REPAIRS

Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
John Taylor Crane Services	<a href="http://www.jtcranes.co.uk">www.jtcranes.co.uk</a>

## TRAFFIC MANAGEMENT

Atlas Traffic Management	<a href="http://www.atlastm.co.uk">www.atlastm.co.uk</a>
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## TECHNICAL & SAFETY CONSULTANCY

Access Safety Management	<a href="http://www.accesssafety.co.uk">www.accesssafety.co.uk</a>
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## TRAINING ASSOCIATIONS & NETWORKS

ALLMI	<a href="http://www.allmi.com">www.allmi.com</a>
AWPT	<a href="http://www.awpt.org">www.awpt.org</a>
IPAF	<a href="http://www.ipaf.org">www.ipaf.org</a>
NASC	<a href="http://www.nasc.org.uk">www.nasc.org.uk</a>
Pasma	<a href="http://www.pasma.co.uk">www.pasma.co.uk</a>

## TRAINING CENTRES & TRAINERS

Access Platform Sales (APS)	<a href="http://www.accessplatforms.co.uk">www.accessplatforms.co.uk</a>
Astra Access	<a href="http://www.astratraining.co.uk">www.astratraining.co.uk</a>
Ainscough	<a href="http://www.ainscoughtraining.co.uk">www.ainscoughtraining.co.uk</a>
AJ Access	<a href="http://www.accessplatforms.com">www.accessplatforms.com</a>
Boss Training	<a href="http://www.bosstraining.co.uk">www.bosstraining.co.uk</a>
Centora Training	<a href="http://www.centoratraining.co.uk">www.centoratraining.co.uk</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
IAPS	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
Smart Platform Rentals	<a href="http://www.smartplatforms.com">www.smartplatforms.com</a>
TVH Group	<a href="http://www.tvh.com">www.tvh.com</a>
UTN	<a href="http://www.utntraining.co.uk">www.utntraining.co.uk</a>
Versalift Training Direct	<a href="http://www.versalift.co.uk/training">www.versalift.co.uk/training</a>
Warren	<a href="http://www.warrenaccesstraining.co.uk/courses/Access%20Training">www.warrenaccesstraining.co.uk/courses/Access Training</a>

## SAFETY TRAINING

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
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## TRAINING SERVICES

JLG Training	<a href="http://www.jlg.com">www.jlg.com</a>
Liebherr Training (UK)	<a href="http://www.liebherr.co.uk">www.liebherr.co.uk</a>
Lifting Equipment Training	<a href="http://www.letltd.co.uk">www.letltd.co.uk</a>
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TH White	<a href="http://www.thwhite.co.uk">www.thwhite.co.uk</a>
Terex Atlas (UK) Ltd.	<a href="http://www.atlascranes.co.uk">www.atlascranes.co.uk</a>
TVH Group	<a href="http://www.tvh.com">www.tvh.com</a>

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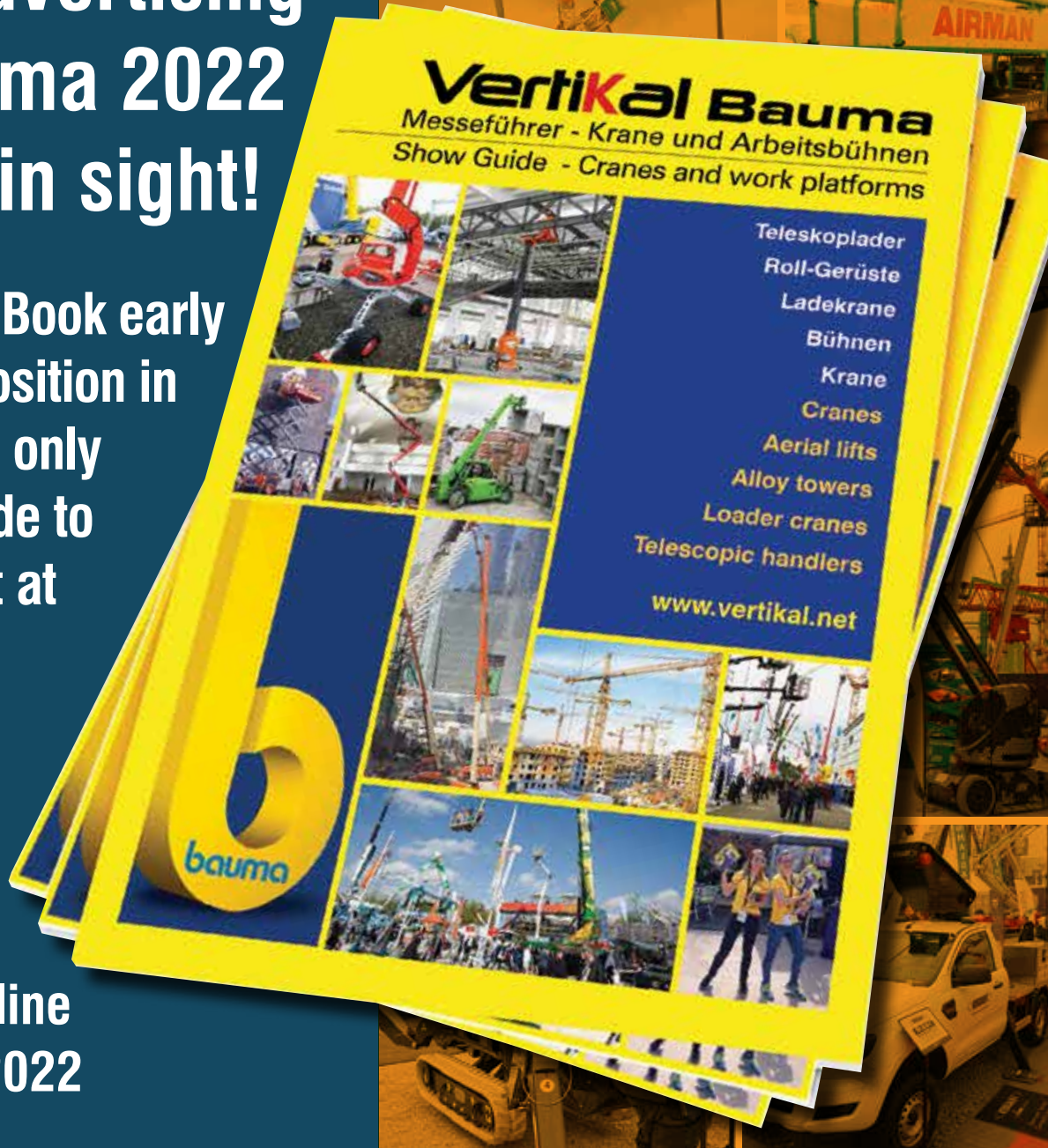
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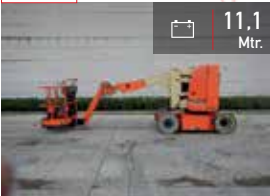

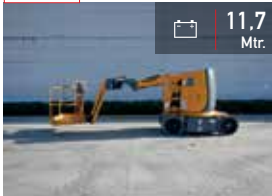
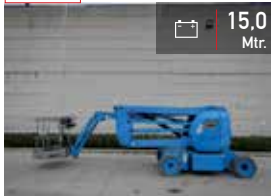

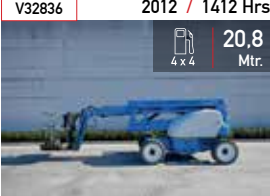
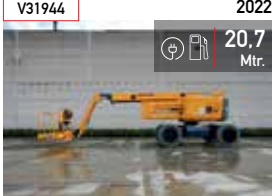






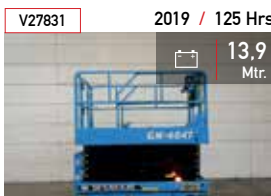


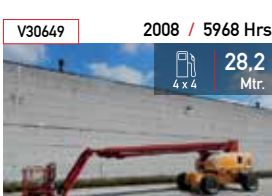




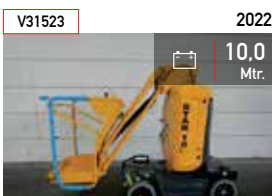

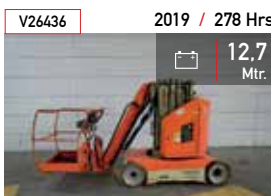


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<p>V25919 2019 / 557 Hrs</p> <p>16,0 Mtr. 4x4</p>  <p>Haulotte HA16RTJ Pro € 41.500</p>	<p>V32836 2012 / 1412 Hrs</p> <p>20,8 Mtr. 4x4</p>  <p>Niftylift HR21DE € 29.500</p>	<p>V31944 2022</p> <p>20,7 Mtr.</p>  <p>Haulotte HA20LE Pro price on demand</p>	<p>V32816 2007 / 5224 Hrs</p> <p>26,4 Mtr. 4x4</p>  <p>Genie Z80-60RT € 27.950</p>	<p>V29701 2008 / 3258 Hrs</p> <p>4,0 Mtr. 4x2</p>  <p>Manitou M170H € 23.500</p>
<p>V25676 2019 / 151 Hrs</p> <p>8,2 Mtr.</p>  <p>Haulotte Compact 8CU € 8.950</p>	<p>V31762 2022</p> <p>10,0 Mtr.</p>  <p>Haulotte Compact 10 N price on demand</p>	<p>V25739 2019 / 247 Hrs</p> <p>10,1 Mtr.</p>  <p>Haulotte Compact 10 € 11.500</p>	<p>V32772 2015 / 400 Hrs</p> <p>11,8 Mtr.</p>  <p>JLG 10RS € 9.500</p>	<p>V27831 2019 / 125 Hrs</p> <p>13,9 Mtr.</p>  <p>Sinoboom GTJJ212 € 13.950</p>
<p>V21428 2016 / 1703 Hrs</p> <p>15,7 Mtr. 4x4</p>  <p>Genie S45 Trax € 52.500</p>	<p>V22719 2011 / 1534 Hrs</p> <p>38,6 Mtr. 4x4</p>  <p>Genie S3800HD € 62.500</p>	<p>V30649 2008 / 5968 Hrs</p> <p>28,2 Mtr. 4x4</p>  <p>JLG 860SJ € 26.500</p>	<p>V19182 2009 / 1666 Hrs</p> <p>22,1 Mtr. 4x4</p>  <p>Snorkel SB66T € 13.950</p>	<p>V29534 2021</p> <p>15,0 Mtr.</p>  <p>Nagano S15Auj price on demand</p>
<p>V32300 2012 / 146 Hrs</p> <p>5,7 Mtr.</p>  <p>Skyjack SJ12 € 2.950</p>	<p>V26083 2007 / 847 Hrs</p> <p>7,7 Mtr.</p>  <p>Manitou 80 VJR € 5.750</p>	<p>V31523 2022</p> <p>10,0 Mtr.</p>  <p>Haulotte STAR 10AE price on demand</p>	<p>V32801 2011 / 653 Hrs</p> <p>10,1 Mtr.</p>  <p>JLG Toucan 10E € 11.950</p>	<p>V26436 2019 / 278 Hrs</p> <p>12,7 Mtr.</p>  <p>JLG Toucan 12E+ € 32.500</p>



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