

cranes & access

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April/May 2019 Vol.21 issue 3



**Booms
Tower
cranes**

**Vertikal
Days guide
Bauma 2019
review**

.....10,000 tonne ALE mega lifter....Faresin's electric telehandler....Speedy acquires Lifterz.....

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KOBELCO CONSTRUCTION
MACHINERY MIDDLE EAST AND
AFRICA FZCO
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KOBELCO CONSTRUCTION
MACHINERY U.S.A INC.
Tel: +1-281-888-8430
jack.fendrick@kobelco.com

KOBELCO INTERNATIONAL (S)
CO., PTE. LTD.
Singapore
Tel: +65-(0)6268-1308
hirakawa.takemichi@kobelco.com

KOBELCO CONSTRUCTION MACHINERY
EUROPE B.V. FOR EUROPE, RUSSIA, CIS
Tel: +31-(0)36-549-5510
jos.verhulst@kobelco.com

KOBELCO CONSTRUCTION
EQUIPMENT INDIA PVT. LTD.
Tel: +91-120-4079900
miyashita@kobelconet.com

www.kobelcocm-global.com

KOBELCO CONSTRUCTION MACHINERY
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On the cover:

Tadano chief executive Koichi Tadano and Terex chief executive John Garrison at Bauma following a press conference discussing Tadano's purchase of the Demag mobile crane business.



C&A

contents

17

Boom lifts



27

Tower cranes



89

Bauma review



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Tel: +44 (0)8448 155900 Fax: +44 (0)1295 768223

E-mail: info@vertikal.net

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Comment 5 News 6



Terex sells US crane assets, Larger Grove telescopic crawler, Faresin Full Electric telehandler, 10,000 tonne crane from ALE, Speedy acquires

Lifterz, Unic Cube Crane, Uperio - the new name in tower cranes, Haulotte launches new compact telehandler, New Vertikal.Net, Redwood/Ascendant in liquidation, Haulotte and Zhongneng United cooperate, Mateco acquires Afron, LGMG and PB partnership, Utility Equipment liquidation and financials round-up.

Boom lifts 17

The boom lift market is entering a phase of rapid change with dozens of new models set for launch over the next few years and developments led by the gathering pace of change towards all electric machines. We take a look at some of the latest developments and new products.



Tower cranes 27

The tower crane market is probably the most dynamic and interesting of all the crane sectors at the moment.

New innovations such as fibre rope, the use of new materials, more sophisticated controls, greater attention to design details and easier to transport and set up all look set to transform the market.



Vertikal Days 2019 show guide 37

Vertikal Days returns for its second year at Donington Park and looks set to be the biggest so far. This issue includes a comprehensive pull-out show guide, listing all the exhibitors, new products and essential information to make the most out of your visit to the show.



Bauma review 89

The sheer scale of Bauma still amazes even veteran show goers. This year's exhibition was the largest yet, with 614,000 square metres of exhibition area attracting more than 620,000 visitors. Because almost every exhibitor

had new products on display, we try and cover as many as possible in our pictorial review.



regulars

Training 97

ALLMI Focus 99

CPA 101

PASMA Focus 103

IPAF Focus 105

Books and Models 107

Letters 108

What's on 111

Online directory 118

In the next C&A

The next issue of Cranes & Access scheduled for mid June will feature the Vertikal Days show review, Loader cranes, Slab electric scissor lifts, Heavy lift applications and developments in telematics. If you have any contributions or suggestions or are interested in advertising in this issue, please contact our editorial or sales teams.

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Editorial team

Mark Darwin - Editor
editor@vertikal.net

Associate editors

Rüdiger Kopf (Freiburg)
Alexander Ochs (Freiburg)
Leigh Sparrow

Reporter

Sam Pickering

Sales & customer support

Pam Penny
Clare Engelke
Karlheinz Kopp

Production/Administration

Nicole Engesser

Subscriptions

Lee Sparrow

Publisher

Leigh Sparrow

Advertising sales

UK-based

Pam Penny pp@vertikal.net
Tel: +44 (0)7917 155657
Clare Engelke ce@vertikal.net
Tel: +44 (0)7989 970862

Germany-based

Karlheinz Kopp khk@vertikal.net
Tel: +49 (0)761 89786615

Italy

Fabio Potestà,
Mediapoint,
Corte Lambruschini,
Corso Buenos Aires 8, V Piano-Interno 7,
I-16129 Genova, Italy
Tel: 010 570 4948 Fax: 010 553 0088
email: mediapointsrl.it

The Vertikal Press

PO box 6998 Brackley NN13 5WY, UK
Tel: +44(0)8448 155900
Fax: +44(0)1295 768223
email: info@vertikal.net
web: www.vertikal.net

Vertikal Verlag

Sundgaullee 15, D-79114,
Freiburg, Germany
Tel: 0761 8978660 Fax: 0761 8866814
email: info@vertikal.net
web: www.vertikal.net



David vs Goliath?

With the colossal Bauma in Munich last month and the far more modest Vertikal Days in Donington this month, it is perhaps an ideal opportunity to compare the relative benefits of two radically different types of trade show.

Last month we received a letter from one of our readers taking issue with our Bauma preview headline - 'The greatest show on earth' - arguing that it was too big, too expensive and too busy to get the most out of it.

Having just spent a full week covering the massive show - walking almost 90,000 steps in six days - I tend to agree, it is too big to cover sensibly. For example just walking from the main entrance to the Manitowoc stand in the outside area took at least 30 minutes, only to have to schlep a similar distance to another part of the show for another press conference half an hour later...

But the negatives of Bauma are also its positives. It is the industry's largest trade fair and the biggest trade show in the world with manufacturers from around the globe exhibiting, having timed new their new product developments for a Bauma launch. With 620,000 visitors and 3,500 other exhibitors there is huge pressure to unveil eye catching new products.

However, from a visitor perspective it is challenging, even if you visited the exhibition every day you could not see it all. It is expensive in terms of entry and accommodation and travelling to the show, whether by car, bus or train is a nightmare. Once you have battled to get inside it is almost impossible to turn up on a stand and speak with key personnel, most of whom are in pre-booked meetings with dealers or major customers with little time to speak with 'normal' or new customers. Even as 'privileged' members of the Press we struggle to find the right person. Even getting onto some of the larger stands can be daunting, with security guards blocking the hoi polloi from all areas apart from the enquiry desk.

I agree, the show is not perfect, but where else would you see so much lifting equipment from so many manufacturers in one place at one time?

Well... apart from Bauma, Vertikal Days is likely to be the largest gathering of lifting equipment this year, but it is the polar opposite of the Munich monster, being easy to get to with free parking, plenty of good, reasonably priced accommodation nearby while entry could hardly be easier, faster or friendlier. Once inside it is easy to walk around, while the other visitors share a common and genuine interest in the people and products on show. Exhibitors also have the time for meaningful conversations in a relaxed atmosphere.

If Bauma is Goliath then Vertikal Days is David, and although it is smaller it doesn't mean that it is any less of a winner.

Mark Darwin

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

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10,000 tonne capacity ALE crane

ALE launched its 10,000 tonne capacity SK10,000 - which it claims is the world's largest land crane - at the Offshore Technology Conference in Texas this week. The SK10,000 uses the same basic design concept as its 5,000 tonne AL.SK350 and can lift at up to 200 metres and offers a ground bearing pressure below 25 tonnes per square metre. Details are minimal as we go to press, but further information will follow in the next issue.

ALE's group technical director Ronald Hoefmans said: "Demand for lifting larger and heavier modules is growing, the introduction of the SK10,000 means that individual lifts of up to 10,000 tonnes are now possible, allowing customers to build larger modules more efficiently in fabrication yards and access a highly mobile and flexible solution to lift them."



ALE's new 10,000 tonne SK10,000



Terex sells US crane assets to Load King

Terex has sold the assets and parts business of its US-based boom truck, truck crane and Crossover crane product lines to Load King, a subsidiary of Custom Truck One Source and part of the Utility One group, which is funded by private equity firm Blackstone. Kansas City-based Custom Truck sells, mounts, rents and supports a wide range of truck mounted equipment including boom trucks, aerial work platforms, loader cranes on trucks and customised chassis.

Founded by the Ross family in 1996 the company has grown rapidly in recent years with the support of Blackstone. This has included the acquisition of trailer manufacturer Load King from Manitex at the end of 2015 and Californian-based crane and utility equipment distributor Great Pacific Equipment about six months ago.

Fred Ross chief executive of Custom Truck One Source said: "This is an important acquisition that expands our broad specialised truck and heavy equipment solutions offering."



Larger telescopic crawler from Grove

Grove has launched the new 127 tonne GHC140 telescopic crawler crane built by Sennebogen. The model features a 52.1 metre six section pinned boom and 15 metre offsettable bi-fold swingaway taking the maximum tip height to 70 metres. The crane's 'level' load chart is good up to 1.5 degrees, with load charts available up to four degrees. The tracks have three positions - fully retracted, mid extension and full extension - all with their own load charts.

The crane can be transported in four loads and self-install its counterweight and tracks. The cab tilts 20 degrees and features a large, air suspension heated seat, climate control system, seven inch screen for viewing camera feeds, an intuitive graphical RCL system and electronic load sensing joystick controls.

A choice of Cummins Tier 4 Final or Tier 3 diesels are available with ECO and Auto Idle modes for improved fuel efficiency. As with other Grove cranes from Sennebogen they will only be available in the Americas.



The new 127 tonne Grove GHC140.

Production ready electric telehandler

Italian manufacturer Faresin unveiled a new battery electric six metre/2,600kg telehandler - the 626 Full Electric - at Bauma, which it says is ready to go into production following a 'soft launch' in October. Based on its regular diesel 626 it uses many of the same non-power components and structure offering 3.1 metres of forward reach with 900kg.

Power comes from a standard lithium 80 volt, 300Ah battery, with the option of a 400Ah battery pack. The standard battery is said to provide three hours continuous operation or six hours typical usage. Recharge time to 100 percent is two hours with a Fast charger, or four hours with standard charger. The optional 400Ah provides four hours continuous operation and eight hours typical usage and takes five hours and 20 minutes with the standard charger or two hours and 35 minutes on a fast charge. The first production units should be shipped within the next six to eight weeks.



The new Faresin 626 Full Electric telehandler





The Unic
URW7035C4
'Cube Crane'

Unic 'Cube Crane'

Unic has unveiled a new spider crane, the URW7035C4, which European distributor Unic Cranes Europe has dubbed the 'Cube Crane'.

Mounted on a tracked spider chassis, the crane has a nine metre three section telescopic mast which raises to the vertical topped by a five section telescopic top boom which extends to a radius of almost 14 metres. When fully extended the crane looks a little like a mini telescopic tracked tower crane with a maximum tip height of 28 metres. It can take 1,000kg to a height of 21.1 metres and 13.9 metres radius. Overall stowed width is 1.5 metres, while features include 360 degree continuous slew, radio remote controls with dual axis joysticks and full overload system.

Manitowoc and Sany agree settlement



Manitowoc has entered into a consent decree with Sany America and Sany Heavy Industry to settle its action for misappropriation of trade secrets relating to Manitowoc's Variable Position Counterweight (VPC) technology.

Speedy acquires Lifterz

UK general rental company Speedy has acquired Yorkshire-based powered access rental company Lifterz from the Bowers family, paying £9.6 million in cash while assuming £11.9 million of debt - which was paid on completion - valuing the company at £21.5 million.

Lifterz runs a fleet of around 1,300 platforms from four locations - Ossett, Haydock, Daventry and Bathgate and employs 90. Revenues for the year to the end of January were £15.2 million with profits of £3.3 million. Gross assets are £17.2 million. The Bowers will remain on board to manage the business although Malcolm Bowers will move to a part time role.

This is the third specialist powered access company that Speedy has acquired since November 2017, having previously added Yeovil-based Prolift Access and Platform Sales & Hire of Milton Keynes. The addition of Lifterz takes the Speedy aerial lift fleet to around 7,500 units making it the second or third largest aerial lift rental company in the UK.



A new name in tower cranes

Belgian tower crane specialist Arcomet and French tower crane rental company Matebat are to merge under the new name Uperio - a combination of the words Up and superior. Philippe Cohet, chairman of Matebat and chief executive of Arcomet will retain his leadership role over the merged business as well as the rest of the group.

The new entity will be the largest tower crane rental company in the world, with a fleet of 2,200 cranes - half of them located in France and half internationally. It will have revenues of more than €200 million and operate from 23 locations across eight countries with 550 employees, 350 of them directly involved with renting, erecting, servicing and delivering the cranes. The company also has plans to add further complementary product lines, such as hoists and formwork.

The Arcomet name will be retained for the group's crane manufacturing operations in Belgium, while the rental fleet will start transitioning to the new branding shortly.

Haulotte's smallest telehandler

Haulotte has started shipping a new 3.2 tonne/seven metre HTL 3207 telehandler, its most compact unit to date. Unveiled as a prototype at Intermat last year, it can lift 2.5 tonnes to 6.85 metres or take 1.3 tonnes to its maximum forward reach of 3.8 metres. Powered by a Kohler Tier IV Final, Stage 3B diesel, it has a standard hydrostatic transmission with a maximum road speed of 25kph. It has an overall width of 2.26 metres an overall height of 2.33 metres and an overall length of 4.67 metres allowing it to enter a standard shipping container. When deployed the stabilisers fall within the machine's overall width while its Gross Vehicle Weight with forks is just over seven tonnes.

The cab is just under a metre wide, and features a large glazed area to maximise visibility, a fully adjustable seat with shock absorbers and 4 in 1 joystick for single handed operation. The load moment indicator includes an automatic cut off when operating in a danger zone, with automatic reset in the case of a malfunction.



The Haulotte HTL 3207 can work inside a shipping container

The 3.2 tonne/seven metre HTL 3207



Mateco acquires Afron

Germany rental group Mateco - part of the TVH group - has acquired Spanish aerial lift and crane sales and rental company Afron in an equity purchase acquisition. Mateco Spain has acquired 100 percent of the outstanding shares in the holding company, Afron Capital. Afron was established in 1980 by Albert Gutknecht and Petra Donoso to sell and rent aerial work platforms, initially in Spain, but over the years has expanded into Portugal and established subsidiaries in Chile and Panama.

Revenues last year were in the region of €16 million from a rental fleet of more than 1,000 units with almost 100 employees working from eight locations. It is also a distributor or sales agent for Isoli, Platform Basket, Maeda, Ommelift and Haulotte.



Carlos Jordà of Mateco Spain (L) and Alberto Gutknecht Donoso of Afron confirm the acquisition

300 JCB telehandlers for Plant Hire UK

UK rental company Plant Hire UK has ordered 300 new JCB telehandlers along with 50 mini excavators in a deal worth almost £17 million. The order takes the total number of JCB telehandlers purchased by Plant Hire UK to 1,800 units ranging from the 2,000kg/four metre 520-40 to JCB's largest telehandler, the 4,000kg/20 metre 540-200.



(L-R) Yvette Henshall-Bell of JCB, Graham Jones of Plant Hire UK and Paul Hartshorn of dealer Gunn JCB.

Nine Terex tower cranes for Select

UK-based Select Crane Hire has ordered nine new Terex tower cranes. The deal, confirmed at Bauma, includes five 18 tonne CTL 272-18 luffing jib tower cranes and four 10 tonne CTT 202-10 flat top cranes.



Terex and Select toast the new tower crane order

Redwood/Ascendant closes its doors

The UK company that builds Ascendant vehicle mounted aerial work platforms - Redwood Engineering - has been wound up. The company produced a range of standard and custom built van, truck, tractor and tracked vehicle mounted platforms with working heights to 30 metres.

Ascendant ran into financial difficulties over an unpaid debt to the UK tax authorities in 2013 when it was majority owned by UK rental company Facelift and was placed into administration and restructured. In 2016 founder Steve Dean acquired the business along with all its debts and liabilities, including a tax repayment plan. Since then the company has been paying off the old debts and rebuilding the business, appointing Skyking as its sole UK dealer in 2017. However it ran into problems again after completed a large deal with a major contractor which withheld payment causing problems with the its tax repayment plan. As a result the tax authorities filed a winding-up order. Dean has another business - Ascendant Access - that handles the parts and service business and plans to ensure that the population of 500 Ascendant platforms continue to be supported and maintained.

Potain offers cranes to Notre Dame

Manitowoc/Potain has made a formal offer to donate tower cranes required for the reconstruction of Notre Dame cathedral in Paris, including the free provision of all related services. Chief executive Barry Pennypacker said: "It seemed natural to us that Potain - which has been involved in the construction of the most emblematic works of French architecture in its 90 year history - is also committed to rebuilding Notre Dame de Paris."

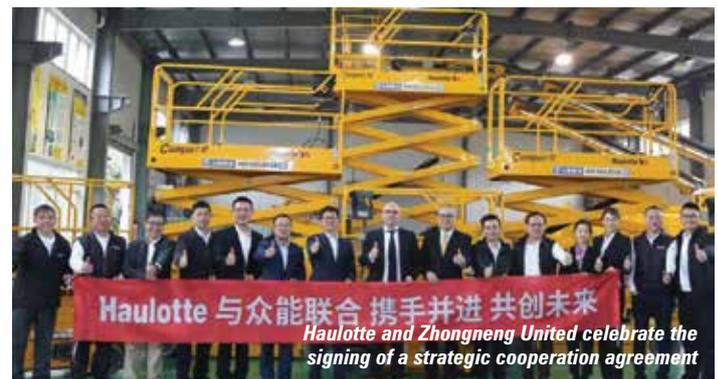
Haulotte and Zhongneng United cooperate

Haulotte China and Zhongneng United Digital Technology have signed a strategic cooperation agreement for the supply of electric scissor lifts. The two companies say that they will work together to drive the development of China's aerial work platform rental market. In the agreement Haulotte will 'share its experience to fully support the development of large rental enterprises like Zhongneng United'.

Nanjing-based Zhongneng was established in 2016 to specialise in platform rental and claims to operate a fleet of 10,000 units including scissors, booms and spider lifts in 32 cities covering 21 provinces across China. The company also has an agreement with JLG, which has until now been its dominant western boom and scissor lift supplier.



Yang Tianli of Zhongneng (L) with Wang Zhijun of Haulotte



Haulotte and Zhongneng United celebrate the signing of a strategic cooperation agreement

All new Vertikal.net

If you are one of thousands of regular readers of Vertikal.net - the web-based lifting industry news site and database - you will have noticed a dramatic change in the past two weeks. The design or look of the site has been fundamentally changed for the first time since we launched in 2001 and is the first major update since 2008. The new horizontal format does perhaps require more scrolling down but is less cluttered and easier to use. The site has also moved to a new global hosting service, which means that it uses a local server no matter where you are in the world, which helps with download speeds. And finally it is all built on a totally new platform that is easier to update, while offering additional opportunities.

The new version dynamically adjusts to match the screen, from wide screen monitors to the smallest smart phone screens. It also loads data more quickly and only does so as you scroll down through the page. There are still a few issues being discovered, in spite of all the months of testing and a lot more editing to be done on the database material that had to be transferred manually. The 'Beta' sign on the logo indicates that there are still some changes to be done but these should be completed in the next week or so.

If you are a regular user of the massive crane and access database, do not worry it has all been transferred, while the News search function has been improved and will also be subject to further improvements during the year. The database - which is currently free to use and free from any form of registration - includes more than 33,000 news reports, almost 45,000 photographs and several hundred magazines and market studies, all of which had to be made compatible with the new platform.

The benefits of the new site are too numerous to cover here, but include less bandwidth usage for the visitor along with space for new features such as application stories and guest editorials. And finally many of the website's services, such as magazine subscriptions and job postings can now be paid online with a credit card.

We would love to hear your comments about the new site via editor@vertikal.net

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LGMG and PB confirm partnership

Chinese aerial lift manufacturer LGMG and German aerial lift manufacturer PB Liftechnik have confirmed a new cooperation agreement for the European market.

LGMG already supplies PB with slab electric scissor lifts which it sells under the PB Eco brand. The two companies say their aim is to combine their strengths in order to serve the European market together, but were short on specific details.



Kranlyft acquires Magni dealer

Kranlyft has acquired Vänermaskin - the Magni dealer for Sweden - from owner Gustav Knutsson who remains with the business. It has also been confirmed as the exclusive distributor for Magni products in Sweden.



Kranlyft has employed the entire Vänermaskin workforce and will maintain the Vänermaskin facility in Grästorps. The business will however be based at Kranlyft headquarters in Gothenburg. It will also continue to work with Vänermaskin's existing service partners. Kranlyft is the European master distributor for Maeda cranes and handles Klaas aluminium cranes in Sweden, the UK and Ireland.

Ultra-low Snorkel scissor concept

Snorkel has unveiled an ultra-low 19ft slab electric scissor lift - the S3019E - which features a patent pending scissor stack design that stows entirely within the chassis, providing an overall stowed height of just 1.76 metres and a step in/ lowered platform height of less than 700mm.

The new lift has direct electric drive and steer eliminating hydraulic hoses, while extending battery life between recharging. Overall width is 770mm, platform capacity 250kg while the overall weight is 1,581kg with deck extension.

Snorkel's ultra-low S3019E



And... electric Speed Level



Snorkel has also launched a battery electric version of its 26ft Speed Level SL26 RT with lithium ion battery pack, the Speed Level SL26E. The new machine is said to have sufficient battery power for a full day's work and offers the same gradeability and speeds as the diesel model. A remote 2.5kWh single phase battery charger can recharge the battery pack to 80 percent within 20 minutes, while the onboard charger takes 6.5 hours to full charge.



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Larger Maeda crawler crane

Maeda has unveiled its largest mini crawler crane to date - the 8.1 tonne CC1908. The new crane has a five section 19.4 metre boom with maximum tip height of 21.5 metres and a maximum radius of 19.2 metres.

It can also pick & carry up to 3.5 tonnes. The crane weighs 19.4 tonnes with optional jib, has an overall width of 2.49 metres with short tailswing. Other features include a fully enclosed air conditioned cab with link slide door, a 10 inch touchscreen display, surround view camera and monitor, extra wide skylight with standard sun shade and visor and is powered by a Yanmar EU Stage V and EPA Final Tier 4 diesel with hydrostatic transmission.

The new Maeda CC1908



Utility Equipment in liquidation

UK-based aerial lift distributor Utility Equipment has entered the liquidation process following its increasing insolvency. The company was established by Scott McCall in 2013 and has been battling with payments since last year.

It has distributed products from a number of manufacturers over the past few years including ATN, France Elévateur and Oil&Steel. The company said it had gone through very challenging times financially, because of late or non-payment from some of its customers.

Strong start for Liebherr's new 650t

Liebherr unveiled its new eight axle 650 tonne LTM 1650-8.1 All Terrain crane at Bauma, selling more than 60 units during the week, with one of the first ordered by UK rental company NMT. Around 10 of the 60 units were ordered by UK crane rental companies. The Bauma crane now travels to the UK for Vertical Days on May 15 and 16 at Donington Park.

The LTM 1650 is available with either a 54 or 80 metre main boom, with up to 90 metres of luffing jib. The load charts are said to match most 700 tonne All Terrain cranes.



Tim Ambridge of NMT (centre) places one of the first orders for the new 650t Liebherr with Steve Elliot (R) of Liebherr GB and Michael Heckenberger of Liebherr



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Liebherr sales top €10bn

Liebherr reported record 2018 revenues exceeding €10 billion for the first time in its history, although pre-tax profits declined 9.5 percent to €514 million due to an increase in 'non-operating expenses' and higher finance charges. The Ethingen mobile crane achieved sales 9.3 percent higher at €2.24 billion with substantially higher sales of All Terrain cranes offset by lower sales of crawler cranes.



Terex - no more cranes

Terex released its first quarter results without reporting its Cranes business. Group revenues - now just Genie and Material Processing - were six percent higher at \$1.4 billion on a like for like basis. Pre-tax profits declined nine percent to \$75.2 million. It expects full year revenues of \$4.7 billion.



Higher revenues and lower losses for HSS

Full year revenues at HSS in the UK were five percent higher at £352.5 million, while revenues for its ongoing operations - minus UK Platforms which was acquired by Loxam in January - were £322.8 million, up 6.2 percent on the year. Pre-tax losses improved from £85.2 million to £4.5 million.



Challenging quarter for Genie

First quarter sales at Terex AWP/Genie declined one percent to \$727.9 million due to a slow start to the year, exasperated by the closure of its Redmond plant due to extreme weather. The backlog increased 25 percent to \$1.1 billion, while operating profits slipped 15 percent to \$59.6 million due to the production disruptions.



Another strong quarter for JLG

JLG reported strong second quarter sales with revenues up 6.4 percent at \$987.6 million. Platform sales declined five percent to \$463.5 million after a spike last year. Telehandler sales increased 36 percent to \$319.5 million, while other revenues were flat at \$204.6 million. Operating profits improved 22.7 percent to \$119.8 million. First half sales were up 16 percent to \$1.81 billion and six month operating profits improved 68 percent to \$186.2 million.



Record first quarter for Palfinger

Palfinger's first quarter revenues increased 11.8 percent to €440.9 million thanks to higher sales of cranes and platforms, while the marine division continued its recent decline. Pre-tax profits jumped 29 percent to €41.1 million, leaving the company on target for another record year.



Weak start for Ramirent

First quarter revenues at Ramirent fell 2.7 percent to €163 million due to a 15 percent drop in Sweden, the company's largest market. Pre-tax profits declined more than 20 percent to €14.88 million due to lower profit levels in all markets except Norway.



Strong quarter for H&E

US-based H&E Equipment saw first quarter revenues rise 20.4 percent to \$313.6 million with improvements in all areas. The rental operation - now more than half the business - saw revenue increase 29 percent. Pre-tax profits jumped 48 percent to \$19.35 million.



Strong sales growth at Manitou

Manitou reported a substantial jump in first quarter revenues in both Europe and the Americas, with total revenues 22 percent higher at €562 million - a new record. Profitability is reported later.



Higher sales lower profits for Hiab

Hiab's first quarter sales increased 14 percent to €316 million, with an 11 percent increase in order intake leaving the backlog four percent higher at €483 million. Operating profit was seven percent lower at €33.4 million due mainly to manufacturing supply chain issues.



Higher revenues, lower profits at United

First quarter revenues at United Rentals improved 22 percent to \$2.12 billion, with much of the growth coming from acquisitions, pre-tax profits however fell almost 14 percent to \$220 million.



10 year high for Haulotte

First quarter sales for Haulotte increased 17 percent to €163.2 million, its highest quarterly revenues in 10 years. New equipment sales increased 19 percent, Parts and Service four percent and rental revenues 10 percent. European and North American revenues were both 20 percent higher. Profit numbers to be posted later.



Record year for Wacker Neuson

Wacker Neuson has reported another record year with total revenues of €1.7 billion, growth occurred across all regions with Europe - its largest market by far - rising almost 11 percent to €1.25 billion. Pre-tax profits, without exceptional gains were 18 percent higher at €148.2 million.



Ramirent acquires Rocla's Finnish modular rental

Ramirent is to acquire the modular cabin rental business of forklift and logistics equipment manufacturer and rental company Rocla Finland, which also offers aerial lift rentals, but plans to focus on its core material handling business.



Riwal acquires Lipac

Riwal has acquired Swedish aerial and telehandler rental company Lipac from owner Per Hedebark. Based in Stockholm, Lipac operates from five locations across central Sweden, with a fleet of around 1,000 machines, including scissors, boom lifts, truck mounts and telehandlers.

Marmon acquires Joyce Crane rental

Chicago's Marmon Crane Services has acquired Joyce Crane rental of Longview, Texas from owner Joe Bob Joyce. Joyce Crane operates from locations in Longview, Texas, Bosier City and West Monroe in Louisiana and Little Rock, Arkansas.

Higher sales lower profits at Cramo

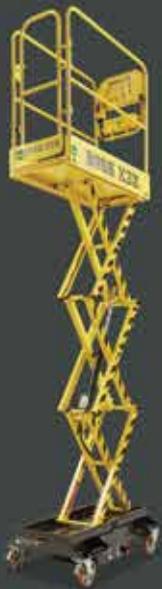
Cramo has reported first quarter sales up 14.4 percent to €200.6 million, of which non cabin rental was €147.9 million, up 3.2 percent on the year. Pre-tax profit dropped 25 percent to €13.8 million.



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-  Largest Database of Cranes



- Skyjack has appointed **Jim Waldron** product safety manager and **Carsten Sacher** sales director, Northern Europe.
- Hong Kong's **Shing Fung** has ordered an **Easy Lift R420HY** spider lift.
- **Haulotte UK** has moved into new premises in Wolverhampton.
- Aerial lift pioneer and designer **Raymond Smith** has passed away at 95.
- **Wagenborg Nedlift** has taken a 500t **Demag AC500-8** and the first **AC160-5** in the Netherlands.
- **Riwal** has launched an augmented reality feature for its Rental App.
- **Tianqi Lithium Kwinana** has ordered the first 45t **Liebherr LRS 545** Reachstacker in Australia.
- **Wacker Neuson** has appointed **Christian Stryffeler** as managing director of **Kramer**.
- **Niftylift** has won two more **Queen's Awards for Enterprise**.
- **Point of Rental** is expanding in Africa with the appointment of **Kelly Hoffman**.
- **Ruthmann** has appointed **Cairo Engineering Equipment** as distributor for Egypt.
- Germany's **Breithaupt & Philipp** has taken a 60t **Demag AC 60-3**.
- **Straightpoint** has appointed **Dutest** as its dealer in the UAE.
- Australian rental company **AB Crane Hire** has taken a 60t **Tadano ATF 60G-3**.
- **Eddie Brown**, senior manager for cranes at **Tarmac** in the 1970s and 80s has died.
- Germany's **Rothlehner** has delivered it's 3,000th **Haulotte** aerial work platform.
- UK-based **Lifting Gear Hire** has acquired the **Straightpoint** rental fleet.
- US distributor **Walter Payton** has moved to new facilities in Lebanon, Indiana.
- **Niftylift** won the HAE Supplier of the Year and Best use of New Media awards.
- **Cramo** has appointed **Sohana Josefsson** SVP, marketing and communications.
- UK's **Lee Lifting Services** has taken a **Liebherr MK 140** mobile tower crane.
- **Palfinger UK** has appointed **Alan Johnson** as director, while **Mark Rigby** retires.
- Sweden's **Lambertsson Kran** has taken a **Potain MDT 809** flat top tower crane.
- **Chandrakant Sanghvi** CEO of India's **Sanghvi Movers** has died at 65.
- UK's **Sech** has taken the first 300t **Kobelco CKE3000G** crawler crane in Europe.
- France's **SMIE** has appointed **Nick Palfrey** as chief marketing officer.
- China's **Shaanxi Shuntong Equipment Rental** has taken 32ft **Skyjack** scissor lifts.
- Swiss contractor **Christen** has taken a 230t **Liebherr LTM 1230-5.1**.
- **Ramirent** is to acquire Swedish/Norwegian rental company **Stavdal**.
- **Manitou** launched a 60ft electric boom lift the 200 **ATJ E**.
- **JLG** parent **Oshkosh** has appointed **John Pfeifer** as COO.
- UK contractor **Severfield** issued a safety notice for 13mm **Force** lifting chains.
- US rental company **Trand** has taken a 750t **Liebherr LG 1750**.
- **MEC** has appointed **Pat Schmetzer** as director, product training & risk management.
- **Elliott** has launched the 19m **V60** truck mounted platform.
- **Versalift** has launched the all electric 12 metre **VTL 120** van mounted platform.



Carsten Sacher



Christian Stryffeler



Kelly Hoffman



Eddie Brown



Chandrakant Sanghvi



Nick Palfrey



John Pfeifer



Pat Schmetzer

- **Manitex** has appointed **Randy Wingenroth** as SVP PM articulated cranes.
- US-based **Empire Crane Company** has taken a 90t **Terex RT 100US**.
- UK contractor **Baylor** has taken a 45t **Grove RT550E**.
- UK's **Media Access Solutions (MAS)** has taken 10 **JLG** booms and scissors.
- **CTE** has appointed **Giovanni Carbonara** as product manager **Tracess** spider lifts.
- **CMC** has launched a new 28 metre **S28** spider lift.
- Turkish manufacturer **Hidrokon** has established a UK operation appointing **Barry Chester** as sales and operations manager.
- **Snorkel/Ahern** will open a company store in Spain - **Ahern Iberica**.
- **Manitowoc UK** has appointed **Wybe Smit** as regional sales manager **Potain** tower cranes.
- **Haulotte** has laid the foundation stone of its new head office building.
- Isle of Man's **Mann Crane Hire** has taken a 60t **Tadano ATF 60G-3**.
- US-based **CWI Crane & Rigging** has taken a 250t **Demag AC 250-5**.
- **Cramo** VPs **Peter Bäckström** and **Mattias Rådström** have left the company.
- **Alimak** has acquired **Dataline i Borås** which manufactures hoist control systems.
- **GSR** has launched the **B220PX** 22m truck mounted platform.
- **Snorkel UK** has appointed **Jon Plaskitt** area sales manager and **Neil Brown** as service team manager.
- UK's **M&M Mobile Crane Hire** has taken a 90t **Liebherr LTM 1090-4.2**.
- **Terex Cranes** has launched the **CTT 202-10** flat top tower crane.
- UK's **J&M Crane & Transport** has taken a 70t **Tadano ATF 70G-4**.
- **Ramirent's** interim CFO **Jonas Söderkvist** is leaving the company.
- UK's **Quick Reach** has received a £4.5 million investment from **Mercia** and opened in Birmingham.
- UK's **Bryn Thomas Cranes** has taken two **Liebherr All Terrain** cranes.
- **CTE** has appointed **Tim Hunt** as export area manager.
- **Tadano** has launched the 13.6t **GR-150XL-3** Rough Terrain crane.
- Middle East-based **Byrne Equipment Rental** has taken 166 **Genie** platforms.
- Ireland's **Blulift** has taken five **Snorkel** aerial lifts.
- Australia's **Kennards Hire** has appointed **Martin McManus** as general manager IT.
- **Haulotte** has opened a wholly owned subsidiary in Japan - **Haulotte Japan**.
- Germany's **Schweri Autokranbetriebe** has taken a 70t **Tadano HK 70** truck crane.
- **Leavitt Cranes** has been appointed **Potain** self-erecting tower crane dealer for Washington and Oregon.
- **Ronan MacLennan** and **Erik de Bruijn** of **GMG Europe** have moved to sales and technical roles at **LGMG**.
- US-based **CraneWorks** has taken the country's first **Demag AC 45 City**.



Randy Wingenroth



Giovanni Carbonara



Wybe Smit



Peter Bäckström



Mattias Rådström



Jon Plaskitt



Neil Brown



Jonas Söderkvist



Tim Hunt



Martin McManus



Ronan MacLennan



Erik de Bruijn

- **TPA** has appointed **Simon O'Regan** as UK sales manager.
- UK ladder and tower manufacturer **Lyte Industries** has been acquired by **Breal Capital**.
- **JCB** is to invest £65 million in a new facility in Vadodara, India
- UAE developer **Arada** has taken eight new **Raimondi** tower cranes.
- UK's **Emley Crane Hire** has taken two **Liebherr All Terrain** cranes.
- **Jekko** has appointed **Fassi Schweiz** as its Swiss dealer.
- US **CK Crane Service** has taken a 100t **Demag AC 100-4L**.
- **Comet** has appointed **Antonio Palazzetti** as area sales manager.
- **XCMG** has appointed **Cranes For You** as Benelux distributor.
- **Pure Lifting** has acquired gantry crane manufacturer **Reid Lifting**.
- Access industry veteran **Ron Jackson** has passed away.
- **Time/Versalift** is dropping the **Time** branding. **Genie** has launched a 46ft **GS-4655** slab electric scissor lift.
- **Liebherr USA** has appointed **Reese Barnes** as sales manager used cranes.
- **Palazzani** has launched the 37m **XJT 37+** spider lift/crane.
- Finnish utility **Tampereen Vera** has taken two 14m **GSR E140TJV** van mounts.
- UK's **Bennetts Crane** purchased two of the three **Raimondi** cranes at Bauma.
- **Mammoet Middle East** has appointed **Enrico Luconi Trombacchi** and **Vimal Jose** to its UAE branch.
- Ohio's **Franklin Equipment** has promoted **Tony Repeta** to chief operating officer.
- Scotland's **Horizon Reinforcing & Crane Hire** has taken two **Liebherr All Terrain** cranes.
- **Ainscough** has appointed **Jeremy Fry** as CEO and **Sat Dhaiwal** as non executive director.
- **CMC** has appointed **Alessandro Mastrogiacomo** as export sales director.
- **Cela** has appointed **Alfa Access Services** as UK distributor.
- **TVH UK** is building a brand new UK parts warehouse in Kidderminster.
- Switzerland's **Interkran** has taken a 300t **Demag AC 300-6**.
- UK's **Southern Crane & Access** has taken a 130t **Liebherr LTM 1130-5.1**.
- **Versalift** has appointed **Martin Sloth** as international sales manager.
- **LGMG North America** received a legal challenge from **JLG** for copyright infringement.
- **BG Lift** has appointed **Alfa Access Services** as its UK distributor and service partner.
- Singapore's **Crane World Asia** has ordered 15 **Terex CTT 541-24** flat top tower cranes.
- France's **SMIE** and **Smart Jobsite** are to merge. **Ashtead** has appointed **Lindsley Ruth** as a non executive director.
- Imer has appointed **NEG Services** and **Special Access Engineering** in the UK.
- The UK association **HAE** is splitting into a membership association and a **SafeHire** certification business.
- Germany's **Mietservice Süß** has taken two **Hematec 12m Helix 1205** mast booms.
- **CTE UK** has appointed **Russell Woodward** as sales manager and **Elena Gkomesi** for product support.



Simon O'Regan



Antonio Palazzetti



Reese Barnes



Tony Repeta



Jeremy Fry



Martin Sloth



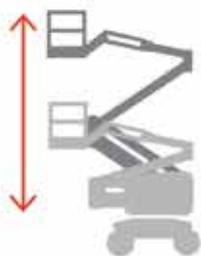
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It's a booming market



C&A

booms

The boom lift market looks set to change rapidly over the next few years with new developments led by electrification - the equipment market's hottest development - highlighted at Bauma last month. Battery electric and hybrid booms have been around for many years, but it has been a niche market for all but the smallest models. The big change is the rapid move of the large, full range producers into all-electric or hybrid Rough Terrain booms due entirely to the tremendous growth of customer demand. This is partly due to the availability of new componentry such as sealed wheel motors and lithium battery packs.

Another development is the demand for higher platform capacities, driven by users wanting to take more material and people to the job, but also spurred on by an increase in the average weight of users, especially with the PPE equipment they are now required to use. Also the new ANSI rules in the USA which require overload cut-out devices preventing any previous overloading. And alongside this is a growing variety of manufacturer designed attachments for handling materials, increasing working height and working outside of the platform.

More manufacturers are also entering the market or expanding their ranges, with the first units also appearing from China. As with other equipment, telematics and other technology is also playing an increasing role. We take a look at some of these developments and new products.

The move towards more electric powered booms has gathered pace in recent years to the point where most manufacturers have been adding new and larger models - often with four wheel drive - while exploring hybrid and lithium power packs in order to give them greater autonomy.

One company that has led the charge towards hybrid booms is UK manufacturer Niftylift which launched its first hybrid machine in 2011 and has been a driving force in the development of low emission booms, giving it substantial market share in the markets such as Germany. In fact its reputation for hybrid machines has overshadowed other innovations that it is known for such as lower weight, more outreach and fully integrated secondary guarding. Last year the company launched its third generation hybrid boom lifts, offering two and four wheel drive models up to 86ft.

Niftylift has also introduced a new 'super efficient' battery electric version of its 62ft HR21, its first product with direct electric drive. The lift has 13 metres outreach, 20.8 metres working height, 150 degree articulating jib with a 1.8 metre wide ToughCage 250kg capacity platform with 160 degrees of platform rotation. As with all Niftylift booms the overall weight is low at 6,640kg. Niftylift also gave customers an advanced glimpse of its first telescopic/straight boom - the HR22 S - around two years ago and is still refining the product prior to starting final production.



Niftylift has introduced a new 'super efficient' battery electric version - the HR21 4x4 - its first product with direct electric drive

Demand for such a machine initially came from Germany where rental companies and end users are ahead of the curve on the adoption of all electric or hybrid equipment.

Battery developments key

For many years the major manufacturers took little notice of the move towards hybrid or all-electric booms given that it was a niche product and not something being asked for in the American home market which has usually tended to drive new developments. However, all that has now changed with electric, hybrid and lithium the new buzz words.

Just a short aside on battery development and lithium ion in particular. For many, lithium batteries represent the ultimate factor in the move away from diesel power. However it should be remembered that battery development is moving rapidly, so fast in fact that we may look back on lithium as the equivalent of the 'mini disc' Walkman which moved portable music forward enormously from the cassette player, but which was totally wiped out by the iPod and now internet downloads.

Existing battery technology

such as AGM has also improved significantly, offering more storage capacity than lead acid along with the maintenance free benefits of lithium ion. When used on machines with direct electric drive, they can now have enough life for two shifts, are a lower cost than lithium and without the concerns of overheating and challenges of recycling.

Another alternative that is just starting to emerge is Lead Crystal batteries, which are said to offer similar performance to lithium - i.e. they can be discharged to zero without stressing the battery, recharge in half the time of



Existing battery technology has improved significantly and alternatives including Lead Crystal batteries are starting to emerge.

traditional batteries, do not leak charge when stored, nor suffer from battery memory issues. They are also said to last up to 18 years, are 99 percent recyclable through traditional channels and are classified as non-hazardous goods for transport. Lead crystal has been designed to provide a realistic alternative to lithium and while it may not be its nemesis it may well provide a more cost-effective alternative.

Major manufacturers now interested

Bauma really brought home how seriously major manufacturers are now taking the move into electric or hybrid powered boom lifts with Genie, JLG and Manitou all launching new electric powered booms at the show.

JLG has quickly moved from true hybrid to full battery electric power since Conexpo in 2016 - a sign of the rapidly changing battery and drive train technology. It unveiled three new mid range articulated boom models - the 34ft 340AJ, 45ft 450AJ and 52ft 520AJ - talking the highest volume sector of the boom lift market. It has taken a different path to Genie, initially choosing two wheel, rear axle drive and two axle steering, allowing the direct electric drive motors to be mounted in the traditional fully enclosed box section rear axle, where the motors and associated wiring are fully protected. A four wheel drive

option is listed, which will though require wheel mounted hub motors on the steering axles in the same way as Genie or Haulotte does on its Z-60E and FE. The lift mechanism and most of the structural part of the lifts are virtually identical to the current diesel powered models. JLG has decided to equip the new models with lithium ion batteries in order to provide more battery life and lower maintenance costs. In fact if you listen to the big manufacturers, lower running costs and maintenance is as much a selling point as zero emissions and low noise.

Barrie Lindsay, UK-based JLG director of engineering said: "As a manufacturer we have improved access to alternative drive systems now that electric drive technology has matured and we are ready to match technology with application. Also, battery development has improved with faster and opportune charging a reality. For JLG it is imperative there should be no reduction in performance, duty cycles or rough terrain ability on these machines."

"The electric 340AJ, 450AJ and 520AJ offer similar performance with their conventional diesel counterparts, and two wheel drive provides good capability on semi rough terrain. Maintenance and parts requirements are reduced, which is a benefit over diesel hydraulic machines, i.e. filter replacements and engine



JLG is working with Dana on the development of the Spicer Electrified e-Axle for future models

maintenance is not required. While these machines perform equally to conventional boom lifts, they produce hardly any noise or emissions, which the market is increasingly demanding for work in urban areas."

Future drive line developments

A good deal of manufacturers' R&D investment is currently going into electric and hybrid drive trains for boom lifts, with major driveline companies collaborating with aerial lift manufacturers - the same applies in the telehandler market. JLG is working with Dana on the development of the Spicer Electrified e-Axle for future models. Displayed on the JLG stand at Bauma the e-Axle combines single electric motor drive with a conventional looking off road axle.

The concept uses Dana's Spicer Smart Suite Intelligent Load Monitoring System (ILMS) and the intelligent steer system, designed to alert the operator of potential tipping situations, while the Spicer intelligent steer system continuously analyses the machine operation adjusting steering angles to help improve manoeuvrability, safety and productivity. Italian component manufacturer Comer also looking to enter this market and says that it is working with a major manufacturer to develop an axle based electric and hybrid drive train.

Manitou Oxygen

In a similar way to Haulotte's launch of its 'Blue Orientation' strategy at Intermat last year with the 60ft Pulseo HA20 LE articulated boom, Manitou introduced its 'Oxygen' label on a range of machines at Bauma, including the 60ft all-

electric 200 ATJ E articulated boom lift.

Manitou is applying the Oxygen label to equipment that features 'alternative energies and sustainable solutions', with three designations



- Oxygen for market ready products, Oxygen Lab for prototypes and solutions going through testing and evaluation, and Oxygen Concept which self explanatory.

Group innovation manager Arnaud Sochas says: "Contractors, rental companies and manufacturers - are faced with an increasing demand for flexible, low carbon solutions, especially on urban sites. It has become essential to focus on zero emissions and low noise levels on extended work areas. With the Oxygen label, we aim to provide a concrete response to these requirements. Our approach obviously includes electric machines, but our primary aim is to provide a proportional solution tailored to each application. These solutions must be cost effective for the user and we are working on reducing the total cost of ownership at the same time as their environmental impact."

Manitou 200 ATJ E

Manitou's new 60ft articulated boom is its first all electric rough terrain



A JLG EC 520AJ electric boom



Manitou's new 60ft 200 ATJ E articulated boom is its first all electric rough terrain boom

boom and is said to offer the same performance as its diesel powered models in terms of speeds and gradeability etc, without the noise or emissions. Manitou has taken a different approach to Genie, Haulotte or JLG maintaining its traditional telehandler type off road axles with drive shafts to a transfer box, with a large AC electric drive motor inputting the power rather than a diesel engine. The benefit is that it uses one larger motor rather than four smaller ones, which is also located inboard where it is fully protected from the mud and abuse of true rough terrain. A second electric motor located in the superstructure drives the hydraulic pump that powers platform movements.

The motors are powered by a 48 volt/460AH battery, capable of working a full one day intensive shift. Manitou says that keeping the relatively low voltage system allows technicians to work on it without special certification. The model is equipped with a new, easy to use control panel, with a screen in the platform that displays a wide range of information including accurate battery levels and a real time graphic display of the working envelope and platform position, including overload warnings. Overall width is slightly less than the diesel model at 2.32 metres, while overall weight is said to be 7,200kg compared to 10 tonnes on the standard model. Manitou says that the ATJ 200 E will have a 20 percent lower total cost of ownership compared to the diesel powered model when the fuel cost is included. The platform should be available early next year with a hybrid version produced later in the year.

Genie hybrid

Genie launched its first electric boom lift the Z30 early on and was an early adopter of Bi-Energy power packs on its 45ft articulated booms, mostly to compete in the European market with companies such as Niftylift. However, there was very little take up in North America. It was also one of the very first companies to add direct electric AC drive when it launched the rear wheel drive Z-40/23N industrial boom lift in 2007. But a four wheel drive, four wheel steer Rough Terrain direct electric drive boom lift had to wait for the right components to be available and then prove capable of handling the abuse of the rental market and rough construction sites.

In early 2016 it unveiled the 60ft Z-60/37 DC, followed by the FE 'hybrid' version with onboard diesel recharging generator. The new model offered the same, if not better performance than the diesel model with four wheel drive, four wheel steer and oscillating axle, but with zero emissions in battery mode and very little noise.



Genie wheel motor

The product has been a success and not only in Europe, but increasingly in the USA.

At Bauma it extend the range with the 45ft articulated Z-45 electric or FE hybrid drive, both with AC direct wheel motor drive, using the same technology as the Z-60 FE - (previously the Z-60/37 FE). The new boom has a maximum working height of 15.92 metres, an outreach of 6.94 metres, an up and over reach of 7.5 metres and 300kg platform capacity. The lift will almost certainly be joined by a Z-51 version.

Genie says that pure battery electric models



Genie has extend its hybrid range with the 45ft Z-45 FE with AC wheel motor drive

can work a full shift on a single battery charge, while in hybrid mode it can run for more than a week on a single tank of diesel. The Z-45 FE boom lift uses a Stage V/Tier 5 diesel powered generator to maintain battery charge. The system also allows generator power to recharge the batteries when braking or descending inclines. Genie says the machine needs 30 percent less fuel than typical diesel machines. The new model will be manufactured in Umbertide, Italy and available in Europe, Middle East, Africa and Russia early next year.

Other new electric booms

As well as the larger manufacturers, several other companies unveiled new electric powered articulated booms, including Airo, LGMG and Sinoboom.

The 50ft Airo A17 JE industrial type boom lift is similar in many respects to the company's smaller A15 JE in concept, with zero tailswing, direct AC motor drive, and a new smart pothole protection system. The lift mechanism - with twin sigma type risers, telescopic boom



The 50ft Airo A17 JE industrial type boom lift has 8.9 metres of outreach at an up and over height just shy of eight metres

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Sinoboom's latest model, the 52ft GTZZ 16EJ, has a maximum outreach of just over 9.37 metres.

and articulated jib - provides 8.9 metres of outreach at an up and over height just shy of eight metres. Overall width is 1.5 metre, while overall weight is 8,375kg.

Sinoboom's latest model, the 52ft GTZZ 16EJ, has a maximum outreach of just over 9.37 metres at an up and over height of just under eight metres. Platform capacity is 230kg and the new machine has direct electric drive and an overall weight of 7,200kg.

The 46ft LGMG A14J is the smaller of two articulated booms from LGMG, the other being the 53ft diesel powered AR16J. The A14J has direct electric drive, a traditional eight battery power pack and offers 7.81 metres of outreach at an up and over height of 7.26 metres with 230kg platform capacity. The machine has an overall weight of 7,500kg.

XCMG has launched a new all-electric articulated boom - the 46ft GTBZ14JD - using Curtis direct drive motors. The new model was not displayed at bauma and very little information is currently available, but assuming it is similar to the company's diesel powered GTBZ14J offers 8.22 metres of outreach, with a platform capacity of 230kg and weighs around 7,000kg.

How long does it last?

One question that is always difficult for manufacturers to answer directly when asked about battery/hybrid technology is how much work will the machine do on a full battery charge? This depends of course on how many full lift cycles it does, how far it is driven and the grades it climbs etc. Companies claim hours of typical usage, but even factors such as temperature can make a difference.

An early attempt to develop a standard test came in 1988 when Peter Hird Snr of UK crane and access rental company Peter Hird & Sons developed the 'Hird Test'. It came about after the company purchased four new Simon Boxer 120 articulating boom lifts and sent them out on a job replacing wall lights. The batteries lasted just three hours, leaving the customer having to wait eight hours to recharge!

The Hird Test

Unimpressed Hird measured the distances between the light units, their height and the angle the boom had to slew through to reach them and used them to create a practical operational test to measure battery performance in controlled conditions.

He found that the fully charged Simon could manage between seven and eight cycles before the battery was depleted. The manufacturer was just as interested to see the data and quickly set about modifying its machines so that by the end of 1991, the Boxer 120 could achieve 22 to 24 cycles.

The Hird Test is still around, however Niftylift says that it experienced difficulties explaining the Hird Test to customers and has therefore launched its own measure to help clarify the extended work run time of its new machines. The Standard Duty Cycle (SDC) gives each machine its own rating of how many cycles the machine can work on a fully charged battery until fully exhausted. While having some similarities to the Hird test, it involves charging the battery to 100 percent, driving 60 metres at full speed, lowering the outriggers if applicable, carrying out a boom cycle to full height and back and finally raising the outriggers, waiting two minutes between cycles and repeating until the battery is totally exhausted. Each machine is given a rating - 16 would be the number of repetitions needed to work for a full day shift. Niftylift says its latest machines have an SDC number of 32 or enough for two days work without charging. Perhaps something like this ought to be adopted as an industry standard?

Snorkel mid range booms

Diesel powered boom lifts still make up the majority of annual sales of course. At Bauma Snorkel showed CE compliant versions of its new 46ft Snorkel 460SJ and 66ft 660SJ, which are now both available



The 40ft 400S telescopic boom lift is the last in its four model mid-range boom line which also includes the 46ft 460SJ, 60ft 600S and 66ft 660SJ.

to order with European Stage V engines. Snorkel is now producing them at its UK facility, in addition to the existing assembly lines at both of its US facilities in Henderson, Nevada and Elwood, Kansas.

Snorkel also recently launched the production version of its 40ft 400S telescopic boom lift - the final unit in its four model mid-range boom line - which also includes the 46ft 460SJ, 60ft 600S and 66ft 660SJ. The 400S has up to 10 metres outreach with a platform capacity of 272kg, or 8.5 metres with its maximum platform capacity of 454kg. Standard features include 4x4 drive, an oscillating axle and 360 degree continuous slew. Total weight is 7.5 tonnes and power comes from a Deutz Tier 4 Final diesel.

There are also rumours that the company may be looking to get into the big boom sector, with an idea to producing models up to around 160ft...



The LGMG A14J has direct electric drive and offers 7.81 metres of outreach



The 42ft, 230kg ELS AE15

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The 66ft Dino 220RXT 4x4 boom lift with outriggers weighs 4,700kg.



Dinolift expands RXT range

Dinolift launched a new lightweight 4x4 boom lift with outriggers at Bauma, the 66ft Dino 220RXT. Its low overall weight of 4,700kg offers a much lower ground pressure for working on sensitive surfaces such as grass, along with easier transportation and lower maintenance and operating costs. Maximum outreach is 12 metres at an up and over height of 8.2 metres with 230kg platform capacity in the 700mm by 1.3 metre basket. An optional XL 750mm by 1.6 metre basket is also available with a capacity of 250kg. With outriggers deployed it has a footprint of 4.6 by five metres, with automatic leveling on slopes of up to eight degrees. An oscillating front axle and four wheel steering adds to maneuverability and maximum drive speed is 10kph. Other options include electric powered superstructure for work where emissions and/or noise is a factor, secondary guarding, LED work lights and 3.5kW hydraulic generator.

A new Aichi boom?

Aichi is planning to unveil the 46ft SP14DJ, a new four wheel drive diesel powered boom lift early next year. We currently only have a few basic details of the new machine which uses a three section boom and articulating jib offering 12.4 metres of outreach with a 270kg platform capacity in a 1.8 metre wide basket. Overall width is 2.3

metres, overall height 2.45 metres and overall length 7.45 metres, with a total transport weight of 8,200kg.

Dingli/Magni partnership

Dingli acquired a 20 percent stake in Magni Telehandlers back in 2016 and the co-operation is now beginning to bear fruit with both companies showing 'Italian designed' booms from the jointly held European Research & Development centre in Italy. The initial project was to design a new range of western orientated boom lifts. Many were keen to see what Riccardo Magni - a highly talented telehandler designer - could bring to



Dingli showed the 60ft GTBZ20AE



Magni unveiled the 92ft straight telescopic DTB30HRT at Bauma

the boom lift market.

The first of the jointly developed Dingli models - the straight telescopic BT24RT and the BT28RT - were shown as prototypes at Bauma China at the end of 2016, however the range has now expanded to include five articulated BA models with working heights from 16 to 28 metres - including a 60ft all electric articulated boom - and six straight BT boom models with working heights from 16 to 30 metres.

The machines are characterised by low slung counterweights and clean, slim superstructures with all major components, including the engine, located in the chassis, mounted on both sides of the chassis frame for a low centre of gravity and even weight distribution and stability. At Bauma Dingli showed the BT24RT and the BT28RT for the first time in Europe as well as the 20 metre working height GTBZ20AE.

Magni unveiled several new articulated machines - the 86ft DAB28RT and the 72ft DAB24RT - together with provisional details of two smaller articulated models - the 46ft DAB16RT and the 60ft DAB20RT. It also unveiled the 92ft straight telescopic DTB30HRT.

Visually the Magni machines are almost identical to the Dingli versions but use different componentry and design detail and are both 500kg heavier than the Dinglis. The 86ft and 72ft models are 18 and 16.7 tonnes respectively.

Both ranges have platform capacities up to 450kg, while the ranges have a high degree of commonality between the models in terms of major componentry and structural fabrications. The booms mostly use telehandler axles, with four wheel drive and steer and differential locks for better traction on difficult conditions.

Work attachments for boom lifts

Alongside the new machine developments most manufacturers have also been looking at ways of making work at height with aerial work platforms easier and more productive, by offering a variety of attachments the most popular of which have been built-in welding sets and generators. The idea of more specific application focused attachments has been around for at least 20 years or more, but it seems that the market has finally become more receptive, helped by manufacturers building them in and certifying their use - essential with the latest regulations/standards.



The Dingli/Magni machines are characterised by low slung counterweights and clean, slim superstructures with all major components, including the engine, located in the chassis



Genie's new four metre platform.

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Higher platform capacities - now often 450kg with limits on maximum outreach - is also helping boost their uptake as is automatic and reliable platform overload systems.

Genie has arguably led the way with boom lift attachments in recent years, starting with the introduction of the 'Fall Arrest Bar' in 2015, a sliding anchor point for lanyards for use by boom lift users who need to exit the platform while at height. More recently JLG added a simpler Bolt on Fall Arrest System, for those that need to work outside of the platform at height. The system consists of two steel brackets



JLG Tri-Entry platform

connected by a 1.8 metre steel cable with a sliding ring to which a harness lanyard can be clipped.

At this year's ARA show Genie introduced a wider range of new accessories in a new 'Genie Lift Tools' range, including the 'Expo

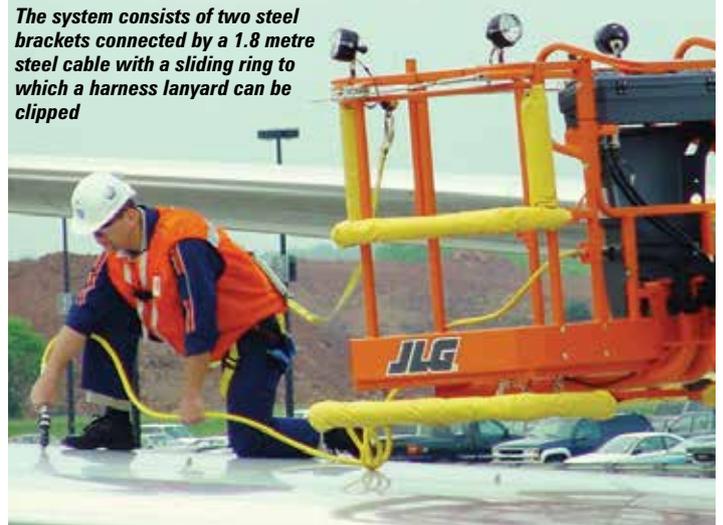


JLG added a simpler Bolt on Fall Arrest System, for those that need to work outside of the platform at height

The Genie 'Expo Installer' is designed for hanging banners and signs



The system consists of two steel brackets connected by a 1.8 metre steel cable with a sliding ring to which a harness lanyard can be clipped




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Genie's Access Deck is a small secondary step up platform that adds 560mm to the platform height allowing easier access into tight spaces



The Genie Access Deck

Installer' for hanging banners and signs. Attached to a 1.8 or 2.4 metre platform in around five minutes, it uses a similar sliding track to that on the Fall Arrest Bar, but with two sliding clamps or trolleys with a combined capacity of 108kg, to which the sign or banner is connected. When lifting the boom, brake pads lock the sliding

clamps/trolleys firmly in place. It can be used with all 45, 51 and 60ft articulated booms and 40 to 65ft booms.

The company also demonstrated its boom Access Deck, a small secondary step up platform that adds 560mm to the platform height allowing easier access into tight spaces, such as through suspended ceiling panels or between joists and rafters. Currently being evaluated by market, it simply clips onto the platform mid rails at either end of S telescopic and Z articulating boom lift platforms and has a capacity of 136kg and comes with a handrail, to provide operators with three point contact. The handle can be folded away when not required.

Skyjack has its Accessoryzers range of attachments, which runs from tool trays to pipe racks, fluorescent tube carriers and glazier's kits and JLG has been offering platform convenience accessories from tool trays, to pipe racks for many years. Its latest one is a smaller platform, measuring 762 x 914mm, which is targeted at specific applications involving work among congested overhead structures, such as the construction or repair of bridges, where the smaller basket is easier to navigate between the steel and concrete support structures.

The manufacturer also expects the new option to be popular in petrochemical plants, refineries, co-generation facilities, stadiums and convention centres. In a way it is an alternative to Genie's Access Deck.

Sadly, space has limited the coverage in this issue, but one thing for sure the relatively mature boom lift market is changing fast.

One of many Skyjack Accessoryzers attachments - this is the Glazier kit.



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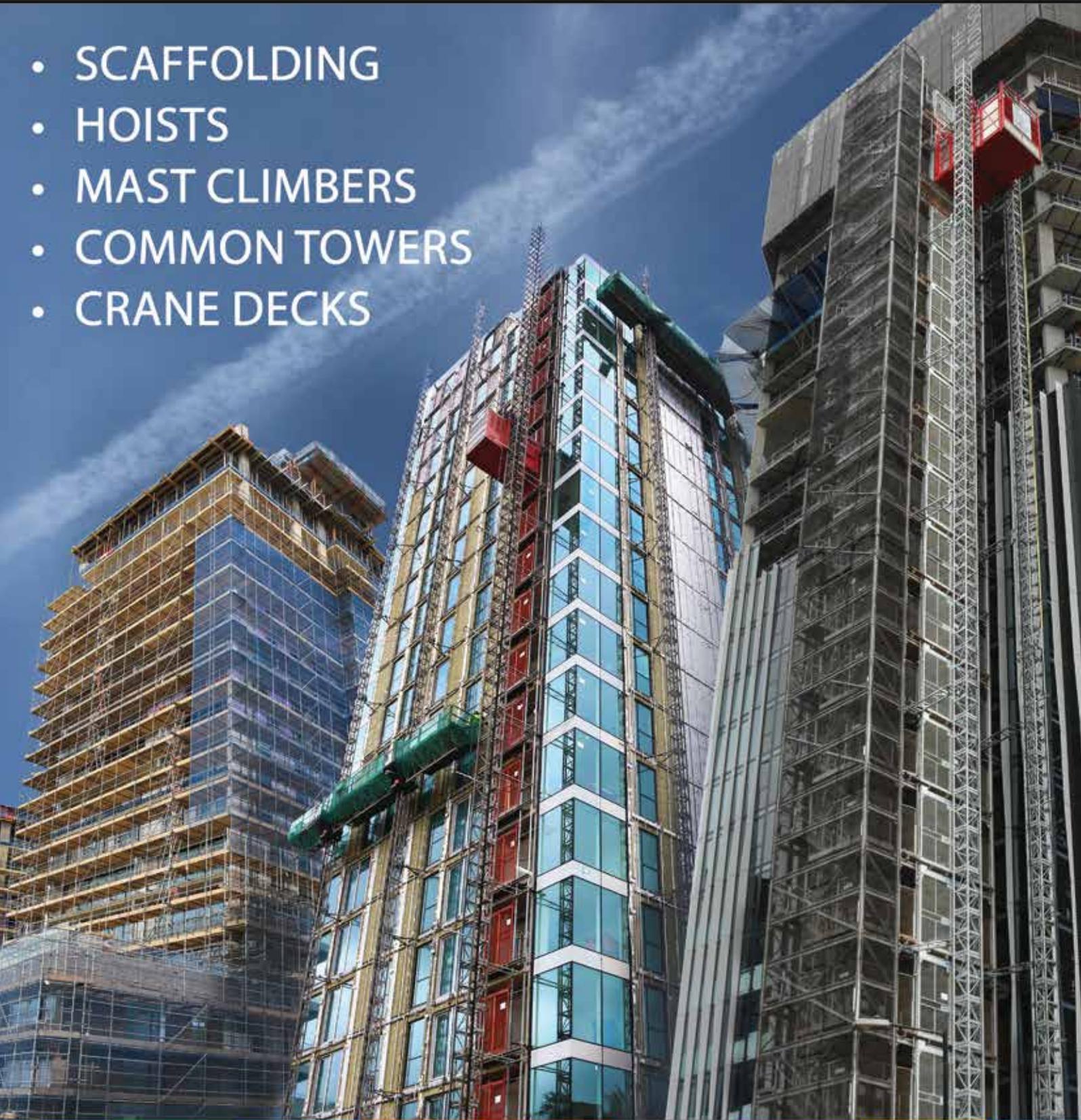
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The tower crane market is probably the most dynamic and interesting of all the crane sectors at the moment. New innovations such as fibre rope, the use of new materials, more sophisticated controls, greater attention to design details and easier transport and set up, look set to transform the market - at least in developed markets. Benefits include increased capacities, greater safety, more economical deployment, easier operation along with a move towards luffing cranes - including hydraulic luffers - giving contractors products better suited to modern construction techniques which are easier to install and operate in cities and confined spaces.

As to the manufacturers, Chinese companies continue to push into a wider range of markets, with Zoomlion possibly leading the way highlighted by its acquisition of German crane company Wilbert to boost its technology, while adding to its distribution and burnishing its brand awareness. The move follows Zoomlion's acquisition of some Jost tower crane designs in 2011. At the same time the

self-erector market continues to develop with several new products from the leading players including Liebherr and Potain.

Fibre the way forward

Fibre rope for cranes has been in development for 10 years or so but it is only recently that manufacturers have started to take it seriously, with two fibre rope manufacturers - Samson and Teufelberger - working directly with

Manitowoc and Liebherr to perfect their products for use in both mobile and tower cranes.

Teufelberger has been working with Liebherr on the SoLITE rope for the past eight years taking the concept to a new level. In North America Samson unveiled its K-100 synthetic rope three years ago which uses Dyneema synthetic fibres and can be for use with mobile cranes, while in the offshore sector MacGregor offers a 150 tonne fully heave compensated knuckle boom fibre rope crane developed in partnership with Parkburn Precision Handling Systems.

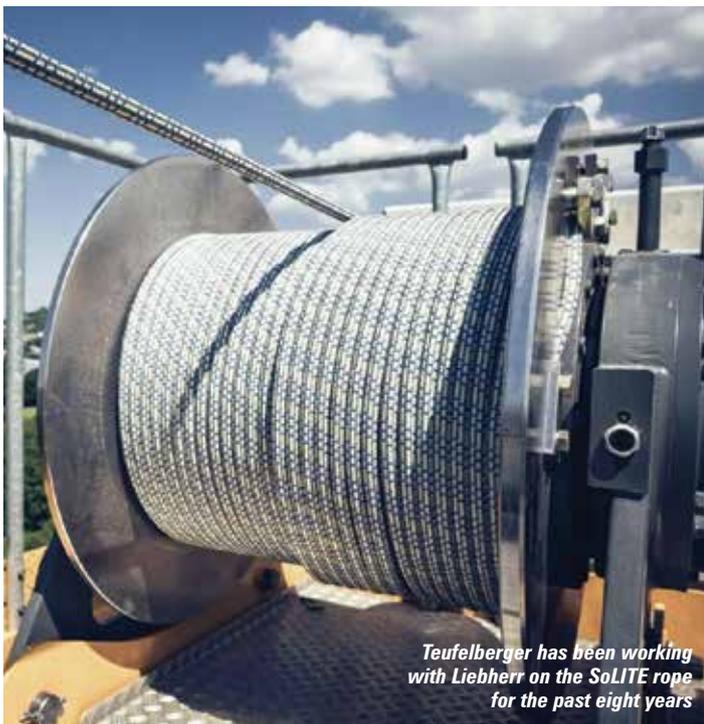
Liebherr has made the new fibre rope a core integral component in four of its new EC-B flat top tower crane range. It is not yet recommending the new rope for retrofitting to its other cranes, saying that ideally the crane should be specifically designed to use the product.

It is hard to argue against the use of fibre ropes in cranes given the huge benefits they offer. The main advantage is of course weight, being 80 percent lighter than steel rope of the same capacity. On a tower crane that translates to a 20 percent gain in jib tip capacity. It is said to have a service life roughly four times longer than for steel rope although it is considerably more expensive. The rope is also much easier to handle and can be fitted by hand without auxiliary reeving winches. It also allows smaller hoisting gear to be specified. Fibre has up to 200 percent higher capacities for the equivalent size and requires no lubricants, resulting in a cleaner, safer crane with less environmental and cost implications. The hook blocks on Liebherr EC-B Fibre cranes are also 50 percent lighter adding to the crane's capacity. Liebherr also says its fibre rope also allows the installation

of a longer jib, rather than all the additional capacity.

One of the early issues with fibre rope was how to identify when the rope needed replacing. Liebherr and Teufelberger spent years developing and testing the new rope, producing more than 100 prototypes totalling 70,000 metres developing an outer cover layer that protects a load bearing core while serving as a visual indicator of rope wear. The rope gradually darkens in colour over time and then the cover layer becomes tatty, with strands beginning to protrude at around two thirds through its safe working life. When it exceeds the 90 percent wear point, red patches begin to be seen through the worn cover, indicating that the rope will soon need to be replaced.

The four new Liebherr EC-B Fibre flat top cranes include the 240 EC-B 10 Fibre, the 240 EC-B 12 Fibre, the 278 EC-B 12 Fibre and the 370 EC-B 12 Fibre. The company says it will have 16 Fibre models in the market by the end of 2020 and may well be using it on mobile cranes by then.



Teufelberger has been working with Liebherr on the SoLITE rope for the past eight years



The different wear rates of the Liebherr Fibre rope.

Wilbert set to expand

At the end of last year Chinese crane manufacturer Zoomlion took its equity stake in Germany's Wilbert Tower Cranes to 100 percent. C&A talked to Gunter Kronewitter, head of sales at Wilbert to find out more.

Prior to the acquisition Wilbert had gone through several years of financial instability ending in administration. Based in Waldlaubersheim - 80km west of Frankfurt - the family business dates back to 1932 when it was established as a rental company offering construction equipment, mobile cranes and concrete pumps. By the end of the 1980s the company had evolved into a full service tower crane supplier, building its name in the German rental market through a long-term partnership with Wolffkran. The relationship came to an abrupt end in 2003 with Wilbert began building its own tower cranes with the WT 200 e.tronic - its first, in-house flat top crane.

It appeared to have got off to a good start, opening a new production facility in 2008, the same year it launched its new Heavy-Lifter series of luffing jib cranes specifically designed for power plant and industrial construction. By 2010 the group - which included manufacturing, rental and service operations - had produced its 200th tower crane and in 2011 claimed to have revenues of €60 million - it even talked of an Initial Public Offering.

However the market slow down hit hard and in 2013 the manufacturing business - Wilbert Turmkran - was placed into administration although the Wilbert Crane Service and Wilbert rental and tower crane erection divisions/companies were not part of the bankruptcy process. Wilbert Turmkran was saved with a five year finance deal from Chinese automotive manufacturer Nanyang Guoyo. The change also saw the business emerge as Wilbert Tower Cranes. Last year, as the five year deal approached its full



Gunter Kronewitter (L) with chief executive Franz-Rudolf Wilbert

term, Nanyang Guoyo decided not to renew its credit line leaving room for Zoomlion to take over.

"The Zoomlion acquisition will not change anything with the Wilbert brand continuing as before manufacturing and renting tower cranes," said Kronewitter. "Wilbert will remain an independent company within the Zoomlion group but with the secure financial backing we now have the chance to grow our product lines and benefit from Zoomlion's sales and distribution networks."

"Our focus remains on complex construction projects, especially in the structural engineering and power plant sectors. We will continue with our large rental fleet which will help build confidence for companies to buy new Wilbert cranes allowing us to develop a full product range."

New models

At Bauma Wilbert unveiled five new e.tronic flat top cranes. The first in the range - the 12 tonne capacity WT 260 e.tronic - was launched almost two years ago with more than 40 units delivered since then. The latest additions range from the eight tonne WT 180 e.tronic to the 32 tonne WT 720 e.tronic. New features include the 'Comfort Cab', the newly developed round tube tower system, freestanding hook heights up to 100 metres using standard tower sections and 130 metres with the new reinforced

The first in the new e.tronic range - the 12 tonne capacity WT 260 e.tronic - was launched almost two years ago selling more than 40 units



The new round tube tower system allows significantly higher free standing tower and hook heights



tower elements, while maximum jib lengths of up to 85 metres are available in 2.5 metre increments. The new control and drive

technology includes stepless acceleration over the entire speed range, fast acceleration and deceleration of the load without


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Max. Lifting Capacity	Boom	Boom Extension	Max. Sheave Height	Max. Radius	Engine (superstructure)	Gear
60 t	9.5 m – 48 m	1.7 m – 7.4 m	58.4 m	44 m	260 kW (354 HP)	6 x 4 x 6 (6 x 6 x 6 off-road)

hoist rope vibration, which it says reduces stress on the crane while providing smoother operation and extending the life of the hoist rope, new assistance systems including wind start control, brake match, anti-sway and position mode all intended to increase safety and offer more precise operation, as well an easy to setup 3D work area limits, remote data retrieval and a remote diagnostic system.

Round tower system

According to Wilbert, the new round tube tower system allows significantly higher free standing tower and hook heights reducing the number of structural fixing points. The modular system is available in two sizes - two metres by two metres for the T25, T40 and T50 towers and 2.44 metres by 2.44 metres for the T100. Standard length of sections is 6.45 metres and together with shorter elements and adaptors for the T50 and T100 towers, hook heights can be adapted to each site requirement.

The company says that up to eight standard elements can be installed in one shift with its climbing system. Each tower section has a 500mm wide ladder and the partially removeable rest platform allows the easy installation of an internal operator elevator.

Machine platform and track

The newly designed HFU110-80 machine platform includes gearbox, switch cabinet, inverter and control system assembly. The 110kW winch on the larger WT560 and WT720 is capable of up to 240 metres/min with 500kg in two fall mode and up to 16 metres a minute with a 32 tonne load in four fall mode with stepless acceleration from zero to its 240 metres a minute maximum.

Wilbert also offers a range of accessories, including a track system that it says is quick and easy to install. Four track widths are available - six, eight, 10 and 12 metres - using track lengths of seven and 10.45 metres. Curved track is also available.

Zoomlion benefits

The acquisition will also benefit the Chinese manufacturer. Zoomlion said that Wilbert will focus on the higher quality cranes aimed at the western markets while helping improve the Zoomlion tower cranes.

"Wilbert products have great



The Wilbert tower crane track system

potential not only in Europe and America but also the high-end market in China. The two companies will also coordinate their supply chains and utilise each other's resources resulting in lower purchasing costs and common development," said Kronewitter. "Zoomlion is one of the largest manufacturers of construction machinery in China and is looking for access to the European market. We hope to advance the targeted expansion of the business in Germany and internationally."

The Jost designed Zoomlion cranes are built solely for the Chinese market, where the company claims that is now the market leader. It recently added three new fourth generation intelligent Zoomlion flat top tower cranes to the range - the T6515, T6520 and T7525, showing the 12 tonne T7020-12H with 70 metre jib and 2,000kg jib tip capacity at Bauma.

As part of its move to consolidate its position in China, it has opened what it claims is the world's largest intelligent tower crane facility in Changde. The plant took three years to build at a cost of \$115.4 million and aims to comply with Germany's Industry 4.0 standards. It includes 12 automatic production lines, more than 10,000 sensors, 100 industrial robots, 35 unmanned Rail RGV and Automatic AVG Guided Vehicles plus 16 CNC machining centres.

Chief executive Zhan Chunxin said: "By leveraging our world leading technology, along with the resources and support available to us in the Changde region, we will be the

undisputed world leader in the construction hoisting machinery sector and will develop even better quality and more intelligent products."

Zoomlion says its tower crane business generated revenues of \$739.7 million in 2018 and it hopes that the new plant will help increase this to \$1.48 billion this year.

A Zoomlion and Wilbert tower crane side by side at Bauma



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New tower cranes at Bauma

This year's Bauma was one of the best for many years in terms of new tower crane product launches so we are covering them here, rather than in the Bauma review on page 89.

Liebherr L1-32 and 125 K

Liebherr expanded its L1 series of self-erecting tower cranes with the addition of the L1-32 which will be available from autumn this year. The crane has a four tonne maximum capacity and a 30 metre maximum radius with a jib tip capacity of 1,000kg. Big brother to the L1-24, the L1-32 has a standard hook height of 21.3 metres and is aimed at the construction of larger domestic properties as well as smaller apartment blocks.

The L1-32 can be transported on a single truck, with five tonnes of basic and 10 tonnes of additional ballast. In order to achieve the maximum capacities, requires a further two tonnes of ballast. The overall base footprint is four by four metres, while the relatively compact tailswing of 2.2 metres keeps it close to the base. Features include Speed2Lift drive and control technology, Micromove fine positioning mode, ABB operating range limiting system, oscillation

damping and wind force moment control. The new radio remote controller includes a full colour display screen.

Liebherr also launched the eight tonne capacity 125 K - its largest self-erecting crane to date - with a maximum radius of 55 metres at which it can lift 1,300kg. Maximum hook height is 65.5 metres, made up of the basic hook height of 29.5 metres plus five tower sections to reach 41.5 metres, while the jib can be luffed to 30 degrees to achieve the 65.5 metres. A Load-Plus function also helps improve capacities.

As mentioned already in the fibre rope section Liebherr has a new eight model range of EC-B flat top tower cranes with maximum capacities from six to 16 tonnes and jib tip capacities from 1.6 to 2.8 tonnes at a radius of up to 58 metres. Four of the new tower cranes are equipped with the new fibre rope developed with Teufelberger.

Liebherr expanded its L1 series of self-erecting tower cranes with the addition of the L1-32



Liebherr also launched the eight tonne capacity 125 K - its largest self-erecting crane to date

Terex CTT 202-10 flat top

The new 10 tonne capacity Terex CTT 202-10 flat top has nine different jib configurations from 25 to 65 metres with a 2.3 tonne tip capacity at 65 metres. The Terex Power Plus feature temporarily allows a 10 percent increase in the maximum capacity under specific and controlled conditions. The crane is also available as the eight tonne CTT 202-8. Three towers can be used - the H20, TS21 and TS16 -

with widths from 1.6 to 2.1 metres. The cab features a fully adjustable comfort seat and short shift joystick controls as well as built-in heating and air conditioning. A seven inch colour display with anti-glare screen provides the operator with operational and troubleshooting data. The crane's new control system features expanded configuration options including Terex Power Match that gives the operator the choice between operating performance or lower energy consumption.

Depending on tower configuration, the new CTT 202-10 has a maximum under hook height of 76.7 metres. All tower segments are preassembled with aluminium ladders and each jib section features an independent lifeline for working at height. Remote control is an option and the crane is built ready for the installation of zoning,



The new 10 tonne capacity Terex CTT 202-10 flat top has nine different jib configurations from 25 to 65 metres with a 2.3 tonne tip capacity at 65 metres

The new 40 tonne capacity Potain MDT 809 with 80 metre jib - its largest flat top to date



anti-collision systems and cameras as well as the next generation of Terex tower telematics - T-Link - a cloud-based system currently accessible from a PC, with Android or iOS mobile devices available shortly. Information includes wind speed, direction and forecasts superimposed on a crane locator map, real time data on all cranes in the fleet, the ability to review the crane's activity history and access the built-in analytics templates to assess the job site efficiency and parts wear.

Biggest Potain flat top

Potain launched its new 40 tonne capacity MDT 809 - its largest flat top to date - with 80 metre jib. Potain says the crane is around twice as fast to erect than other 40 tonne cranes, while requiring

less space. It says that it takes three days to install with 50 metres hook height and the full 80 metre jib, thanks to dedicated slinging points on the crane and jib sections assembled either on the ground or

in the air, depending on available space. Jib lengths range from 30 to 80 metres in five metre sections.

A choice of two standard frequency-controlled hoists are available - the 100LVF or 270LVF - or the optional High Performance 150HPL. The winch options give the crane a maximum capacity of 25, 32 or 40 tonnes and 80 metre tip loads of up to nine tonnes. Two fall and four fall configurations are available while a simple in cab button control enables the operator to activate the automatic cable tensioning system - useful for long running job sites where tensioning is required more frequently. Freestanding heights of up to 80 metres are possible with the new reinforced K-mast tower system.

For transportation the slewing mechanism can fit into a standard

container, while the whole crane transports in either 10 or 11 containers depending on the winch option chosen, which Potain claims is four to five fewer than is typically required for a crane of this size. Smart design features to aid shipping include protective packaging for the jib sections and a cab that rotates for transport. The crane also has a new eight metre cross base that offers the same performance as the 10 metre chassis, but only requires one container and is quicker to assemble.

Thibaut Le Besnerais, global product director for tower cranes said: "The MDT 809 is one of the most significant Potain tower crane launches of recent times. Over the past 10 years we have seen growing demand for topless cranes, thanks to their fast assembly and compact design. We have also seen an increase in modular construction, with contractors needing to lift heavier loads. It is clear to us that there is strong demand for bigger topless cranes. But we wanted to be sure that any new model not only satisfied demand for greater

capacity, but also preserved the easy transport, fast assembly and performance of our other topless cranes."

Potain hydraulic luffer

Potain also showed the MRH 125 - the first in its new European range of hydraulic luffers. Pre-production models of the crane, first seen as the MCH 125 prototype at Bauma China 2016, have been on test in Thailand, Australia and New Zealand.

Maximum capacity is eight tonnes, maximum jib length 50 metres with a jib tip capacity of two tonnes. Maximum freestanding height is 57.9 metres while line speeds of up to 118 metres a minute are available with the 50LVF20 hoist.

The Potain MRH 125 is the first in its new European range of hydraulic luffers



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Day by day, Fassi works towards the future. It does so by focusing on digital and mechatronic innovation, introducing applications and technology to support human operators.

These devices are developed entirely by Fassi and can be activated either remotely or via selector switches and can assist the operator both in terms

of control and safety. Predictive diagnostics, connectivity between machines, control of load handling and cabin safety are just some of the innovative functions available which make the work of the operator ever more important and central.

More about: fassi.com

facebook.com/fassigruspa

The Hup M 28-32 has a maximum capacity of 2.2 tonnes, a 28 metre jib, a jib tip capacity of 850kg and dual steering axles



The crane has been designed for ease of transport and fast erection/dismantling and can be mounted on the standard 1.6 or two metre K-mast towers. Four containers are required to transport the upper portion of the crane, with the counter jib and jib foot traveling as a single package. The VVH hydraulic luffing mechanism and cylinders are pre-connected at the factory reducing assembly time on site, while the unusual seven metre counter jib is simple to connect during assembly. The jib luffs from horizontal to near vertical in two minutes and the out of service radius is 10 metres.

New Hup mobile self erector

Potain's third model in its Hup self-erecting crane line is smaller not larger and the first with a twin axle steered chassis. The Hup M 28-32 has a maximum capacity of 2.2 tonnes, a 28 metre jib and a jib tip capacity of 850kg. The jib can be luffed to 10, 20 or 30 degrees above the horizontal, providing hook heights of between 20 and 31 metres. According to Potain the new crane is the most compact in its class with an overall transport length of 11.5 metres. It also features permanently installed ballast and onboard battery powered dual steering axles.

The remote control unit features a large colour screen with Potain's Smart Set Up software delivering on screen information and an automatic folding and unfolding of the crane simplifies set up. Like other Hup models, it has Drive Control

functionality with three selectable profiles that vary the working speed of the crane to suit the application, while the micro-speed function delivers slow and high precision hoisting. The first units are scheduled for early in 2020.

Comansa's new 50 tonne flat top

At Bauma Comansa announced an additional model to its range of large flat top cranes - the 21LC1400. Two versions with maximum capacities of 50 and 66 tonnes will be available worldwide from September, both of which are aimed at applications such as Prefabricated Prefinished Volumetric Construction (PPVC) and major infrastructure projects.

The 21LC1400 features a modular counter jib/back mast design to allow for reduced tail swing/slew radii in space constrained jobsites and a new single compact trolley - instead of the usual double trolley system - as the crane will mainly work on projects requiring the maximum capacity for most of the lifts it carries out.

The company also unveiled Quick Set which reduces the set up time for the crane's electronic limit systems from three hours to just 45 minutes, and with fewer people. Quick Set will be available as an option on all LC flat top models and will be of particular benefit to companies that tend to use their cranes on shorter term projects.

A new Cube Cab was on display together with the recently launched 50 tonne 21LC1050 flat top with jib lengths up to 90 metres. The

display crane was sold with full jib and mast to rental company BKL Baukran Logistik for a job in Berlin with contractor Klebl.

Wolfskrann

Major news from Wolfskrann was its new Wolff 133 B hydraulic luffer, which replaces the 100 B. Available in 6.2 or eight tonne configurations the 133 B has a 25 to 45 metre jib extended in five metre increments, with a jib tip capacity of 2.6 tonnes for the smaller model and 2.3 tonnes for the larger. As with the larger 166 B the 133 B can be operated in single or two fall mode.

The modular tower system allows a freestanding height of 95 metres with a two by two metre UV20 tower, while a 1.5 metre square tower is in development.

The smaller model uses the 28 kW, HW 628.1 FU winch with speeds of up to 108 metres a minute. The eight tonne model has the 45 kW electric powered HW 845 FU from the 166 B with a maximum speed of 158 metres a minute. A one piece counter jib is said to be easier to transport and no component weighs more than 6.7 tonnes allowing a smaller crane to be used for erection.

New Arcomet A50 Eco

Arcomet unveiled the eight tonne A50 Eco, its



Comansa recently launched 50 tonne 21LC1050 flat top with jib lengths up to 90 metres

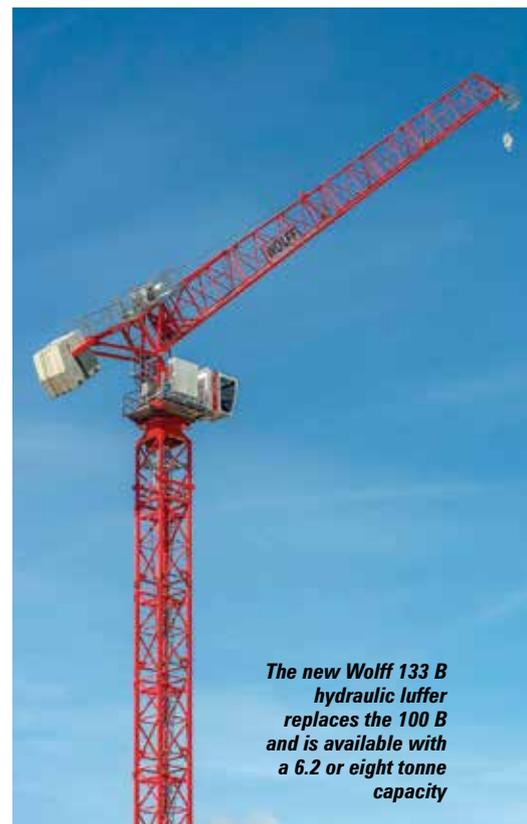


Arcomet unveiled the eight tonne A50 Eco, its largest self-erecting crane to date

largest self-erecting crane to date, with a 50 metre jib with a jib tip capacity of 1,500kg. Jibs of 29, 35, 40 and 45 metres are also possible and hook heights range from 18.4 metres to 36 metres. The maximum counterweight is 42 tonnes with a tail swing/slew radius of 3.85 metres and a base footprint of 4.8 by 4.8 metres.

Two new FB Gru

Italian crane manufacturer FB Gru launched two 'Fast-Erecting' cranes at the show - the GA138K is a restyled version of the GA138 with a four tonne capacity and 38 metre jib with 1,00kg jib tip capacity. Developed in collaboration with Käppeli Logistik the unit is road



The new Wolff 133 B hydraulic luffer replaces the 100 B and is available with a 6.2 or eight tonne capacity

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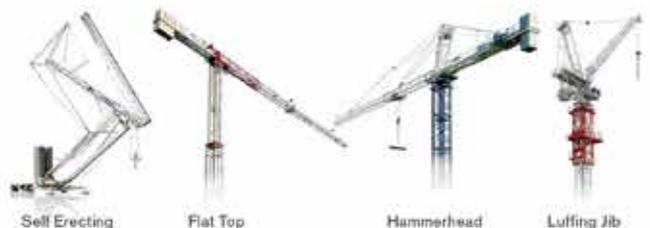
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towable at 80 km/h. The second was the GA143 with 43 metre jib and four tonne capacity.

Raimondi

Raimondi showed three new cranes - the LR273 luffer, the hydraulic luffing LRH174, and its largest tower crane to date the flat top MRT573. The LR273 has an 18 tonne capacity and 60 metre jib. In standard configuration it can work in two, three and four falls, while a single line extension will be offered as an option. The crane has a choice of two main hoists - 67kW and 86kW - both with optional emergency brake.

The company's first hydraulic luffer, the LRH174 unveiled last year has a 10 tonne capacity, 50 metre jib and 2,250kg top capacity with two falls. The crane can also be used with single line with a maximum capacity of five tonnes and a tip load of 2,476kg.

The reduced out of service radius is 10 metres and like all hydraulic luffers it offers faster, easier installation. The jib and winch are assembled at ground level and raised in a single lift. Luffing the jib to 85 degrees takes less than two minutes. The crane also uses the new generation



The FB Gru GA138K has a four tonne capacity and 38 metre jib with 1,00kg jib tip capacity

Raimondi safety control system.

JASO

Jaso launched its largest luffing jib crane - the J780PA - in two versions, the 75 tonne J780PA and a maximum boom length of 70 metres and the 64 tonne J780PA.64. The first J780PA has started work on The Ribbon project in Sydney, Australia. Assembly was completed in less than three days in a very small and confined space.

Also new is the J1400 which joins the Top Line - H series. It can lift up to 64 tonnes and has a maximum radius of 80 metres. The first model is destined for a project in Singapore. Finally Jaso introduced the JL25 tower crane operator lift.



Jaso introduced the JL25 tower crane operator lift



Bauma was the first chance to see Raimondi's hydraulic luffing LRH174

The Raimondi LRH 174 - the affordable new hydraulic luffer now available

- High hoist speed
- 37kW or 45kW motor
- One fall/two fall
- 6.5m out of service radius
- 2m tower

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for buyers and users
of lifting equipment



Vertikal days

This guide can be pulled out to plan your visit, or downloaded onto a device of your choice from www.vertikal.net, while a simplified essential guide with listings and maps will be available at the entrance.

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Vertical
days

Stand MP9



Back at Donington

C&A

vertikal days



This year's Vertikal Days returns to Donington Park for the second year running, following last year's successful event. The venue proved popular in terms of location, road access, facilities and availability of hotels, not to mention its proximity to airports.

Just off the M1 motorway and close to the M6, it is also alongside East Midlands International Airport, which prevents those with booms of more than 30 metres from fully extending them. While not perfect, most visitors last year were not too concerned. The impressive array of large hotels runs from the luxury to budget chain hotels and family owned bed and breakfasts. This year's event will have more exhibition stands than ever before, all of them on the good quality hard standing. While the dates are closer to Bauma than ideal, it does provide the benefit of there being a good number of truly new and innovative exhibits which manufacturers have developed to meet the Bauma dates.

The number of significant new product launches including cranes, telehandlers and aerial lifts makes this one of the best Vertikal Days ever for innovation.

There are more than 130 stands with exhibitors representing over 300 manufacturers and suppliers, all of them dedicated to providing equipment and solutions for working safely at height or lifting heavy loads. While not quite as big a show as Bauma, it will include a good few exhibitors that simply could not afford to exhibit at Bauma or were unable to get space.

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

Learning opportunities

As usual there will be a few short

seminars and advice on offer - all free - from associations such as the CPA and IPAF, while the charity My Future My Choice will return with its workshops for local school children, organised in partnership with Liebherr. Sessions this year will be held in the Launch Pad Building alongside the Organisers Office, with the students having a guided tour of the show to complete their introduction to the industry.

More ancillary suppliers

The event continues to attract new exhibitors offering a wide selection of ancillary equipment and services, ranging from components, operator training and virtual reality simulators to lubricants, finance, tyres, fleet or site management software, insurance, security systems, safety equipment, batteries, remote controls, asset tracking and below the hook attachments. Many, but not, are located in the Marketplace, which as usual also serves as the Pavilion Café offering tea, coffee water and snacks all day, with room to meet up, chat or even close a deal.

Catering

As in previous years, the Catering Pavilion will be the main base for lunch, with last year's caterer - Bobby - building on his positive debut. The menu will include the popular Vertikal free range Hog Roast, along with a separate barbecue and sandwich kiosk and a few new additions to the menu.

Evening networking event

This year the networking event will once again be held on Wednesday evening in the Catering Pavilion, where Bobby will introduce a range of fresh dishes, while providing his famous chicken tikka masala, which



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





was such a big hit last year and lived up to his claim of being one of the best chicken tikkas in England. The musical entertainment sees the return of Roller Coaster, which has played Vertikal Days on two previous occasions, the last time being the 10th anniversary party. This will be their first appearance since we moved away from Haydock in 2016. Tickets are initially reserved for exhibitors, but there are almost always some exhibitors that do not take up their allocation, along with last minute returns. Email pp@vertikal.net to place your name on the waiting list.

Lunch menu

Slow roasted outdoor reared whole pig with sage and onion stuffing and homemade apple sauce

Barbecue stall with burgers, sausages and vegetarian options

Crisp country salad (v)

Luxury deli-style coleslaw (v)

Rustic new potato salad (v)

Selection of fruit (v)

Chocolate brownies (v)

Freshly baked bread rolls



Show Information

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

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

Show times and dates:

Wednesday 15th May
10:00am to 17.30 and

Thursday 16th May
10:00am to 16.30

Coffee, tea and snacks served all day in the Marketplace

Lunch is served in the Catering Pavilion or Barbecue/Sandwich area between 12:30 and 14:30

How to register

- Pre-register online and print out your badge OR
- Bring along a completed invitation and swap this for a lanyard/badge OR
- Just turn up with a business card and swap it for a badge/lanyard

You will however benefit from bringing a copy of this magazine along with you to wave at the security on the entrance gate

Networking event (ticket required)

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

Access Equipment & Telehandlers

A-Plant: Stand 208

See *FLG Services*

Access Industries: Stand 417

See *Multitel Pagliero*

Access Platform Sales (APS): Stand 300

APS is an authorised distributor for Genie, Hinowa, MEC and BoSS aerial lifts. On the stand you will find a range of Genie articulated boom lifts including the 45ft Z-45 and the 60ft Z-60, as well as products from Wienold, Ommelift, Niftylift and BoSS.

Access Sales International:

Stand 210

Ruthmann distributor ASI will bring the 75 metre T750HF mounted on a 32 tonne chassis, the highest platform to be supplied by Ruthmann to the UK and Ireland to date. Also on its stand is the 20 metre Ecoline RS200 on a 3.5 tonne chassis, the 28.5 metre TU285 City Steiger on a 7.5 tonne chassis, and

the 51 metre Ruthmann T510HF on an 18 tonne chassis.

AD Astra Equipment: Stand 210

See *Access Sales International*

Aerial and Handling Services: Stand 109a

This year Aerial and Handling Services will give a UK debut to the Airo A17JE boom lift. Also on display will be the Airo X14EN and X16EW scissor lifts and the Airo XLP5E PAV. From Easy Lift will be the 26 metre RA26 and 15 metre R150 spider lifts. It also offers field service and repairs for all types of aerial lifts and material handlers, while designing a range of attachments.

AFI Uplift: Stand 310

See *AJ Access Platforms*

Airo: Stand 109a

See *Aerial and Handling Services*

AJ Access Platforms: Stand 310

Holland Lift's official UK and Ireland distributor AJ Access Platforms will show a 65ft HL-220 D25 scissor lift, with 1,000kg platform capacity,



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stand 407b

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Sophisticated European R&D-Intelligently manufactured by Dingli in a new state of the art facility-Global Patent Protection

Subversive Innovation

Innovative technologies such as dedicated axles, overall component downsize, lower counterweight for lower center of gravity and lighter machines, modular design for ease of maintenance and interchangeability of parts.

Subversive Performance(Compared with the same model in the industry)

The maximum working height heights have been increased by more than 2m to 30m on the telescopic Boom Lifts is 30m and 28m the Articulating Boom Lifts. Both models can be loaded into a standard container.

Maximum SWL increased by more than 30% to 450kg on telescopic booms and 320Kg on articulating Boom Lifts.

Maximum Horizontal Reach is increased by more than 1m.

Maximum gradeability is 50%, an increase of more than 20%.

The weight of the whole machine will also be 1 ton lighter.

Subversive Maintenance(Low maintenance costs)

With a family-style modular design, 95% of the parts and more than 80% of the structural components are common across the range.

More convenient maintenance and lower cost of components storage.

Simple to maintain with integrated component down design.

With dedicated axles, the failure rate is lower.

Telescopic Boom Lifts

BT24RT(24m) **BT26RT**(26m)

BT28RT(28m) **BT30RT**(30m)

Articulating Boom Lifts

BA24RT(24m) **BA28RT**(28m)



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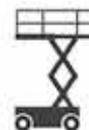
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**Alimak's
Scando 650**

suitable for heavy duty applications, both indoors and outside. AJ will launch the 45ft Yamei 4655 scissor lift and show a refurbished 30ft Genie Z3020NRJ boom lift on the stand.

AL-Lift: Stand 308

See CLM/Maber

Aldercote: Stand 300

See APS

Alfa Access Services: Stand 110/414/MP21

Alfa Access Services specialises in the service, repair, training and sales of powered access and lifting equipment. The company is now the

UK distributor of BG Lift/Brennero Gru mini cranes, and will show the lightweight 580kg capacity M060, 2.5 tonne M250 spider crane and 14.5 tonne CWE 525 tracked articulating crane. Also on the stand is the new 10 metre Helix 1004XL mast boom, alongside the 12 metre 1205 and 15 metre 1508 models, together with Teupen spider lifts, Cela truck mounts and Gantic battery chargers.

See Teupen

Alimak: Stand 421

Alimak will show the Scando 650 XL and Scando 650 hoists, alongside



Almac Jibbi 1250 Evo

the Hek MC 450 mastclimber work platform and Hek TPL 1000 lift, while demonstrating the lifting of a spider crane.

Allied Access: Stand 307

See SAEclimber UK

Almac: Stand 408

Almac will show the new 33ft Jibbi 1250 Evo telescopic tracked boom lift, with three section telescopic boom and articulated jib. The Jibbi 1250 can level on slopes of up to 22 degrees, offers a 12.2 metre working height and 5.5 metres of outreach with its maximum capacity

of 230kg, while seven metres is possible with 80kg. Also check out the range of Almac tracked scissor lifts.

ATN: Stand 202

French manufacturer ATN - now owned by Fassi - will show its new 12.65 metre Piaf 13RE mast boom with just over six metres of outreach and 200kg platform capacity. It will be joined by the updated 23 metre Mygale 23 spider lift, the Piaf 10RE mast boom and the Zebra 16 STAB articulated boom lift.



ATN Piaf 13RE

Avant Tecno: Stand 311

See Central Platform Services

Bizzocchi: Stand 108

See CTE UK

Bluelift: Stand 112/13

See Snorkel UK

Böcker UK: Stand 125

After launching its UK operations at Vertikal Days last year, Böcker UK will bring the Agilo HL34 hoist and the tracked HL24 hoist alongside its growing range of aluminium boomed truck, tracked and trailer cranes.

BoSS: Stand 300

See APS

Bravi: Stand 201

Italian aerial lift manufacturer Bravi will show the Leonardo HD self propelled lift. Weighing 510kg, the Leonardo HD has a maximum working height of 4.9 metres with a 180kg platform capacity. Features include 87mm ground clearance and 40 percent gradeability.

metres and 700kg platform capacity and a third, possibly larger model.

Cela: Stand 110

See Alfa Access Services

Central Platform Services: Stand 311

Central Platform Services will show the 19 metre Leguan L190 spider lift with a tracked chassis, and the five metre Leguan 50 aerial lift attached to an Avant loader. It will also show a range of Smartlift glazing robots, including the SL608 HL RT.

CLM/Maber: Stand 308

CLM and Maber hoists and mastclimbers will show the new 8,000kg AL-DYNAMIC 8000 and 1,000kg ALTYPHOON 1000 vacuum lifts from AL-Lift, along with the 500kg MB 500 and 2,000kg MBC 2000 hoists.

Comet UK: Stand 100

Comet UK will show the Solar big deck truck mounted platform with 11 metres of outreach and 400kg platform capacity, alongside the Eurosky range of truck mounted platforms with up to 20 metres working height and 10 metres of

Central Platform Services will show Smartlift glazing robots



outreach.

CPL: Stand 411/12

Vehicle mounted lift specialist CPL, now owned by Klubb, will show a range of Klubb van and 3.5 tonne truck mounted lifts ranging from 10 to 25 metres, alongside pick up mounted platforms and spider lifts

from Palfinger Platforms Italia. The focus will be on its growing range of zero emission platforms and include three new products.

CTE UK: Stand 108

CTE UK is keeping its plans close to its chest, but expect to see the new 20 metre Traccess spider lift, and

CPL will show a range of zero emission platforms from parent company Klubb



Bravi Leonardo HD

Bronto Skylift: Stand 418

Bronto Skylift will show the 35 metre S35EM, nicknamed the Baby Bronto. It is mounted on a compact two axle 18 tonne chassis, offers 29 metres of outreach and up to 500kg platform capacity. The company will also show the 47 metre S47XR, which provides an outreach of 28



Bronto Skylift S35EM

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STAND 110
Boom lifts



STAND 110
Mini cranes



STAND MP21
Independent service provider

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www.alfa-access-services.com

some new truck mounted models. This is also an opportunity to meet the new sales and management team.

Denka: Stand MP21

See *Alfa Access Services*

Dingli: Stand 407b

Chinese aerial lift manufacturer Dingli will launch the new 65ft JCPT2223RTA Rough Terrain diesel scissor lift with 750kg platform capacity and dual decks, alongside slab electric scissors ranging from the 12ft JCPT0607DCS to the recently upgraded 45ft JCPT1612DCB.

Dinolift: Stand 311

See *Central Platform Services*

Dutch Crane Factory:

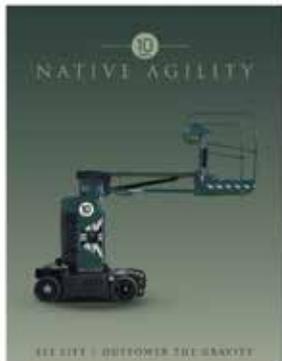
Stand TS7/8

See *Pfeifer Machinery*

Eastman Heavy Machinery:

Stand TS6

See *Fontexx*



ELS Lift: Stand 407a

See *Euro Mechanical Handling*

Euro Mechanical Handling:

Stand 407a

Forklift specialist Euro Mechanical Handling was appointed to handle ELS booms, scissor lifts and telehandlers in January and will show the manufacturer's new mast boom, mast type lift, scissors and possibly the new telehandler built for ELS by MST.

Faraone: Stand 100

See *Comet UK*

Faresin: Stand 112/13

See *Snorkel UK*

Fontexx: Stand TS6

Dutch sales and rental company - and first time exhibitor - Fontexx was appointed as the European master dealer for Eastman all electric - no hydraulics - slab electric scissor and mast type lifts. The company also services and repairs tower cranes.

Fraco: Stand MP27a

See *Turbolber (UK)*

GB Access: Stand 208

See *FLG Services*

Geda: Stand 413

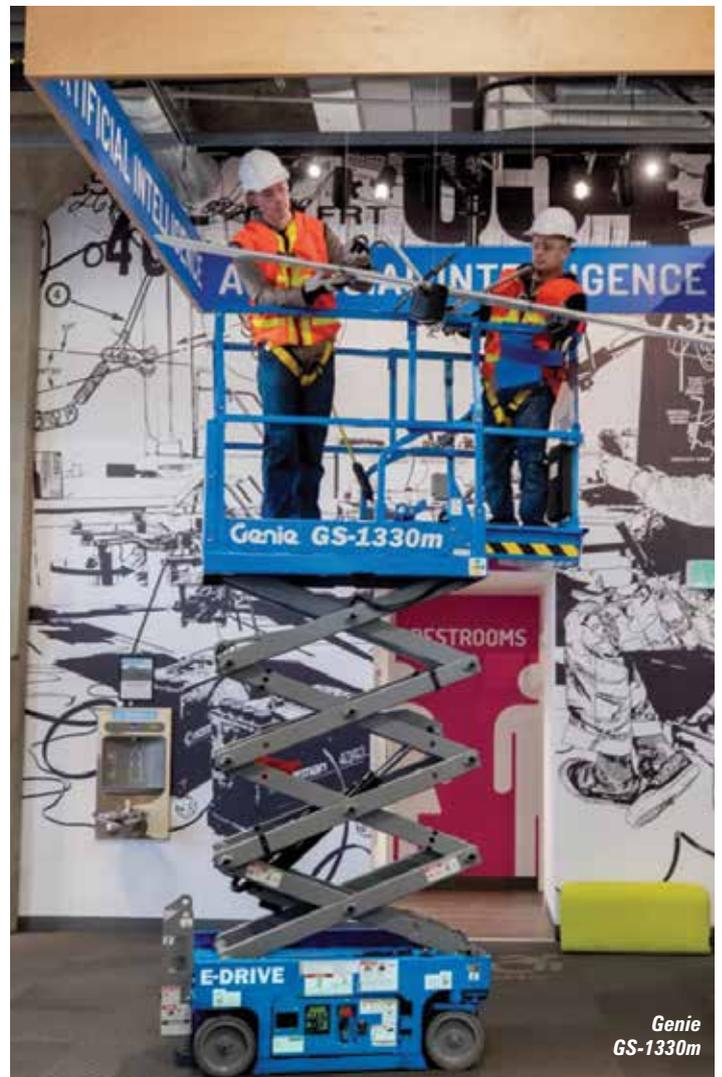
See *Mace Industries*

Gehl: Stand 214

See *Manitou UK*

Genie UK: Stand 203/303

Genie will show its new 13ft



Genie GS-1330m

GS-1330m electric micro scissor lift, alongside its latest generation of 'green' aerial work platforms, including the new 45ft Z45 FE hybrid boom lift and 46ft GS-4655 slab electric scissor lift, as well as its latest Xtra Capacity (XC) telescopic boom lift range. It will also demonstrate its new Lift Connect Telematics solutions and show its new lithium ion battery pack on the 19ft GS-1932 scissor lift.

GMG: Stand 213

GMG will have its 10 metre VM26-J

mast boom alongside its Rough Terrain scissor lifts, the 26ft 2669-RT, 33ft 3369-RT and 3394-RT-T, 40ft 4069-RT and 60ft 6094-RT-T. These will be joined by its slab electric scissor lift range, and the company says it will have a surprise launch in store as well, while demonstrating its Overhead Warning System and updated control system.

GSR Aerial Platforms UK:

Stand 405/6

The GSR truck and van mounted range designed for self-drive rental, includes both telescopic and



Dingli JCPT2223RTA



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Telehandlers from GT Lifting



articulated models with many models now offering 300kg unrestricted platform capacity and simple outrigger setup. Look out for the new 22 metre B220PXE articulated model

with end mounted basket, 10.2 metres outreach with 120kg and 250kg maximum capacity with unrestricted slew over the cab and the hybrid powered 18 metre 180T telescopic.

GT Lifting: Stand 313
GT Lifting will show its heavy duty and 360 degree telehandlers from both Magni and Merlo. The

company also offers contract lift services, CPCS (Construction Plant Competence Scheme) training, specialist attachments and assistance with lift plans.

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Hinowa Lightlift 33.17



Helix: Stand 110

See Alfa Access Services

Hematec: Stand 110

See Alfa Access Services

Hinowa: Stand 301

Hinowa will show the 32.5 metre 33.17 Lightlift spider lift, which provides an outreach of 16.5 metres at an up & over height of 17 metres, with an unrestricted platform capacity of 230kg. Alongside will be the 26 metre 26.14 and 20 metre

20.10 Lightlift spider lifts featuring lithium ion battery pack.

Hitec Lift Trucks: Stand 207

Hitec Lift Trucks offers a range of new and pre-owned material handling equipment for both sale and rental. The company has been the dealer for the Cesab range of industrial forklift trucks for 25 years, as well as Hyster forklifts, and is part of Toyota Materials Handling Europe.



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Vertical days

Donington park, 15-16 May
Stand 418

brontoskylift.com

Holland Lift: Stand 310

See *AJ Access Platforms*

Imer: Stand 312b

Imer will show models from its growing line of scissor lifts, including the IM 180 series of compact Rough Terrains with working heights to 14.8 metres, and three electric scissor lifts up to 15.9 metres working height. You will also see its 19 metre IM R 19 from its spider lift range.

Instant UpRight: Stand TS3/4

Aluminium scaffold tower manufacturer Instant UpRight will show its Snappy range of lightweight low level platforms, including the Snappy 300, Snappy 400 and the new Snappy Ladder. These will be joined by the Span 500 tower, Instant Stairway tower and Instant Spandeck walkways.

Isoli: Stand 419/20

See *Skyking*

JCB: Stand 209/309

JCB will show a selection of electric scissor lifts, including the 19ft S1930E with lithium battery, 26ft

S2632E and S2646E, and 40ft S4046E. Representing its telehandler range will be the four tonne/17.5 metre 540-180 with platform attachment.

JLG: Stand 409/10

JLG has a wide range of new products to talk about, from the new lithium battery powered Rough Terrain articulated boom lifts, to its latest Power Towers models in the new livery, including the Power Tower Duo. The company is also celebrating its 50th anniversary and will be sure to have something special planned.

Klubb: Stand 411/12

See *CPL*

Laing Access: Stand 311

See *Central Platform Services*

Leguan: Stand 311

See *Central Platform Services*

LGMG - Lingong:

Stand 111

Chinese aerial lift manufacturer



JCB's 540-180 telehandler with platform attachment

LGMG will show its 46ft A14J articulated boom lift, as well as its slab electric scissor lifts including the 12ft SS0407E and the 15ft SS0507E. The company is making significant progress in Europe and will be talking about its plans for the UK and Ireland.

Maber: Stand 308

See *CLM/Maber*

Mace Industries: Stand 413

Mace will focus on the Geda range of hoist and mastclimbers, but also ask about Geda's latest range of tower crane operator's hoists.

Magni UK: Stand 404a

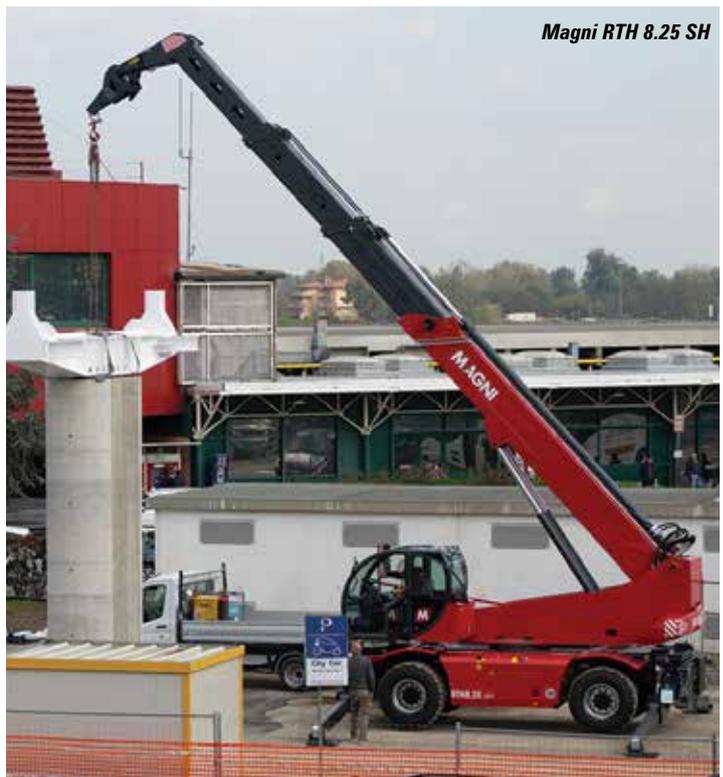
Magni will show its new higher capacity eight tonne RTH 8.25 SH 360 degree telehandler, which can handle 5.3 tonnes at its maximum forward reach of 25 metres. This is the first time it has been shown in the UK.

Manitou UK: Stand 214

Manitou will show the prototype of its all new 60ft electric powered boom lift, the 200E-TJ, with innovative drive train. It will also show the nine metre 90 V'Air mast boom, designed specifically for two operators carrying out aircraft



LGMG A14J



Magni RTH 8.25 SH

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OTHER HEAVY MACHINERY



Manitou 90 V'Air

maintenance, and the 52ft 180 ATJ articulated boom lift.

Mantall: Stand TS9

The Chinese manufacturer Mantall will show a number of its slab electric scissor lifts, Rough Terrain scissors, and its 10 metre IMP100J mast boom.

Multitel Pagliero: Stand 417

Multitel Pagliero will be launching its new UK direct sales distribution and will show its new 25 metre MZ 250 truck mounted platform mounted on a 3.5 tonne Iveco Daily chassis, which provides a below ground reach of 2.5 metres. It will be joined by the new 27 metre MTE 270, with 16 metres of outreach and 250kg platform capacity. Also check the 20.4 metre MT 204 Hybrid, which has 10.9 metres of outreach and 300kg platform capacity and finally the 20 metre HX 200 EX and the 20 metre MJ 201 truck mounted platforms.

Nagano: Stand TS7/8

See Pfeifer Machinery

Niftylift: Stand 314

Niftylift will bring its 33ft HR12L

electric boom lift, available with lithium or AGM maintenance free battery options, alongside the third generation hybrid 61ft HR21 and 85ft HR28 boom lifts. The line up will be rounded off with a 49ft HR17N boom lift and 12.2 metre 120T trailer lift.

Ommelift: Stand 300

See APS



Platform Basket 43T spider lift

Pagliero: Stand 417

See Multitel Pagliero

Palfinger Platforms: Stand 411/12/19/20

Palfinger Platforms Italia - See CPL

Palfinger Platforms above 3.5 tonnes - See Skyking

Pfeifer Machinery: Stand TS7/8

Pfeifer is one of Europe's leading distributors of used cranes and platforms, as well as being a distributor for Nagano tracked boom lifts. It will show the 15 metre S15Auj and 20 metre 20ATuj models. The company also hopes to have new compact aerial lifts from Dutch Crane Factory on its stand.

Platform Basket: Stand 204

See Promax Access

Pop-Up: Stand 112/13

See Snorkel UK

Power Towers: Stand 409/10

See JLG

Promax Access: Stand 204

Platform Basket's UK distributor will show the new 20 metre spider lift, alongside two hybrid spider lifts, the 18 metre Spider 18.90 Pro, which offers 9.2 metres of outreach, and the 13 metre Spider 13.80, providing 7.8 metres of outreach. Take a look at the new 43 metre 43T telescopic, and the company's latest lithium battery technology and onboard diagnostics.

Ruthmann:

Stand 210

See Access Sales International



See the UK launch of Multitel Pagliero's MZ 250



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STAND 304

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Ruthmann-Bluelift: Stand 112/13

See *Snorkel UK*

SAEClimber UK: Stand 307

First time exhibitor SAEClimber UK manufactures mastclimbers, passenger hoists and material hoists, as well as special access equipment.

Sky Aces: Stand 419/20

See *Skyking*

Skyjack: Stand 106

Skyjack will show the all new 53ft SJ9253RT Rough Terrain diesel scissor lift, one of a four model range with platform heights from 33ft to 63ft and platform capacities up to 1,245kg. It will also show its completely revamped 40ft slab electric scissor lift, the SJ4740 alongside its other booms, scissor lifts and mast booms. It will also demonstrate a host of new technology and telematics.

Skyking: Stand 419/20

Skyking will show the new hybrid 37 metre Palfinger P370KSE truck mounted platform, as well as the P370KS mounted to a 4x4 chassis, alongside Palfinger's 22 metre P220BK and 30 metre P300KS.

Snorkel UK: Stand 112/13

Snorkel UK will show the 27ft Snorkel S2755RT compact Rough Terrain scissor lift with 300kg platform capacity and fully equipped overall weight of 2,750kg. The company's new 40ft telescopic boom will also be on show and possibly the new lithium ion battery electric Speed Level, ultra-low S3019 scissor lift prototype and new 31 metre Bluelift SA31 spider lift with 17.3 metres of outreach.

Socage: Stand 302

Italian aerial lift manufacturer Socage will show the 20.5 metre 21DJ and 20 metre 20D truck mounted platforms on 3.5 tonne chassis, alongside the new 14 metre A314E pick up mounted platform.

Spandeck: Stand TS3/4

See *Instant UpRight*

Speedy Services: Stand 107

The rental sponsor for Vertikal Days, Speedy will show a number of aerial work platforms from Genie and Skyjack, following the acquisitions of UK rental companies Lifterz, Prolift and Platform Sales and Hire. Be sure



Skyjack SJ6832



Teupen Leo35T plus

to check out its stand for a range of other lifting products, including a lifting cage and lifting beams.

Terex Utilities: Stand 411/12

See *CPL*

Teupen: Stand 414

Teupen's UK and Ireland distributor Alfa Access Services will show the new 35 metre Leo35T plus spider lift for the first time in the UK. Also ask about the upcoming launch of the new Leo34GT.

Torgar: Stand MP27a

See *Turbolber (UK)*

Toucan: Stand 409/10

See *JLG*

Turbolber (UK): Stand MP27a

Turbolber (UK) is the distributor for Torgar and Fraco mastclimbers and hoists, which it will show at Vertikal Days. The company also provides and delivers bespoke special works projects for industries including

mining, petrochemical, demolition and construction.

Versalift UK: Stand 211/12

Versalift will launch its new 16.7 metre VTM170-F at the show, on an Iveco Daily70C chassis, designed for maintaining highway lighting. Also look for the company's all new VTL range of van mounted platforms, and the 13.3 metre LAT135-H pick up mounted platform on an Isuzu D-Max chassis, with over 500kg of spare payload.

Wienold Lift: Stand 300

See *APS*

Xtreme: Stand 112/13

See *Snorkel UK*

Yamei: Stand 310

See *AJ Access Platforms*

Youngman: Stand 300

See *APS*

Zhejiang Dingli: Stand 407b

See *Dingli*



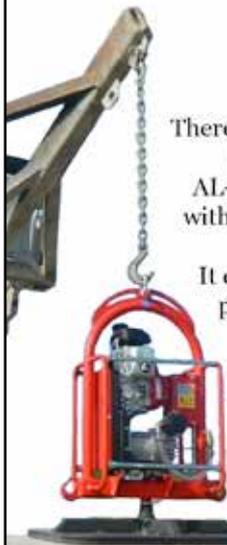
Snorkel SL26E Speed Level

PREVIEW: Snorkel SL26E LITHIUM-ION, 4-WHEEL DRIVE ELECTRIC SPEED LEVEL



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**Vertical
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Stand TS11

Cranes & Lifting Equipment

Artic Crane: Stand 120

See *City Lifting*

BG Lift: Stand 110

See *Alfa Access Services*

Böcker UK: Stand 125

Böcker UK will show the 12 tonne AK52 mounted on a three axle 26 tonne truck with rear axle steering, four section main boom plus three section luffing jib for a 52 metre tip height with the option of 55 metres. This will be joined by the six tonne AK46-6000 aluminium truck crane.

City Lifting: Stand 120

City Lifting has not said what it will show. The Comansa dealer for the UK will have plenty to talk about in terms of new models, and is likely to show its latest Artic articulated luffing tower crane.

Comansa: Stand 120

See *City Lifting*

Cormidi: Stand 104/5

See *GGR*

Crowland Cranes: Stand MP24

Crowland Cranes will highlight its wide array of crane related products and services, including its new wireless windspeed system, its Power-Pad HD range of steel crane mats, Power-Pad crane stowage systems and the Rim Wizard heavy duty wheel removal tool. It will also have a 40 tonne Grove RT540E-2 Rough Terrain crane on the Manitowoc stand.



Crowland Cranes' windspeed system

Demag: Stand 129/30

See *Terex Cranes*

Falcon Tower Crane Services: Stand MP8

See *Falcon Training Services*

Ferrari: Stand 404

See *Shawtrack Services*

FLG Services: Stand 208

FLG Services offers a wide range of lifting and safety equipment for sale and rental, and will show its latest new product - the Eichinger safe lifting pallet cage - along with the HoistCam crane camera, 400 tonne Modulift spreader beams, harnesses, lanyards, chains, slings and more.

Foster Cranes: Stand 101

Hoeflon's UK distributor Foster Cranes will show the two tonne C4, three tonne C6 and four tonne C10 tracked spider cranes. There will also be information available on the brand new eight tonne C30 shown at Bauma.

Galizia: Stand 104/5

See *GGR*

GGR: Stand 104/5

GGR, the Unic spider crane distributor will have a wide range of innovative lifting equipment on show, including several Unic spider cranes, including the new 'Cube Crane' with twin telescopic booms. It will also demonstrate its vacuum lifters for glass panels, compact pick & carry cranes and restricted access



Eichinger's lifting cage will be on the FLG Services stand

lifting machinery.

Grove: Stand 114/15/16

See *Manitowoc Cranes UK*

Hematec: Stand 110

See *Alfa Access Services*

Hird: Stand 102

Hird is the Valla pick & carry crane and Winlet glass handling equipment distributor for the UK and will show

the latest remote controlled Valla cranes along with a range of glass handling equipment, including the latest robots from Winlet and Glaslift.

Hitachi-Sumitomo: Stand 119

See *NRC Plant*

Hoeflon: Stand 101

See *Foster Cranes*



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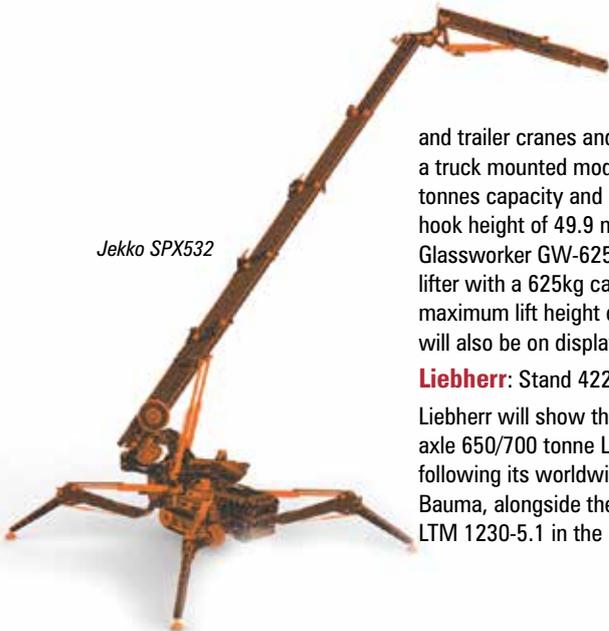
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Jekko SPX532

and trailer cranes and will show a truck mounted model with six tonnes capacity and a maximum hook height of 49.9 metres. Also is a Glassworker GW-625 glass vacuum lifter with a 625kg capacity and a maximum lift height of 3.1 metres will also be on display.

Liebherr: Stand 422/23/24/25/26

Liebherr will show the new eight axle 650/700 tonne LTM 1650-8.1 following its worldwide premiere at Bauma, alongside the first 230 tonne LTM 1230-5.1 in the UK and the



Link Belt TCC-1200

new 100 tonne LTR 1100 telescopic crawler crane with a Stage V diesel. Also on display will be the eight tonne MK140 mobile self erecting tower crane and a number of All Terrain cranes, including the 100 tonne LTM 1100-5.2, 90 tonne LTM 1090-4.2, 60 tonne LTM 1060-3.1 and 40 tonne LTM 1040-2.1.

Link-Belt: Stand 119

See NRC Plant

London Tower Cranes: Stand 402

One of the UK's largest tower crane suppliers, London Tower Cranes runs a fleet of over 200 cranes up to 600 metre/tonnes from manufacturers including Jost and Saez. On its stand the company will have a Saez tower crane cab section with a slew ring, a hock block with a Blokcam installed with a screen to show live footage, and a truck unit.

Maeda: Stand 415/16

See Kranlyft UK

Mammoet UK: Stand MP19

Mammoet will be highlighting its wide range of heavy lift, lift management, rigging and heavy transport services.

Manitowoc Cranes UK: Stand 114/15/16

Manitowoc UK will show the new Potain MRH125 tower crane, one of two hydraulic luffing jib models. The crane has a maximum capacity of eight tonnes and can handle two tonnes at a 50 metre radius. Two Grove Rough Terrain cranes will also be shown - the 45 tonne RT550E and 40 tonne RT540E-2.



Maeda's updated MC285C-3 will be on Kranlyft UK's stand.

Jaso: Stand MP8

See Falcon Training Services

Jekko: Stand 103

See JT Crane Services

JMG Cranes: Stand 403

JMG has a number of new pedestrian pick & carry cranes to launch, as well as some new larger models with telescopic chassis.

Jost: Stand 402

See London Tower Cranes

JT Crane Services: Stand 103

Jekko's UK dealer JT Crane Services will launch the nine tonne C90 tracked carrier along the lithium powered SPX532 spider crane. Also on the stand will be the 2.4 tonne SPX424, 7.5 tonne SPX1275 and the six tonne SPK60 telescopic crawler crane.

Kato: Stand 205/6/305/6

See Rivertek

Klaas: Stand 415/16

See Kranlyft UK

Kobelco Cranes: Stand 127

Kobelco will show the new 150 tonne G-2 series CKE1350 lattice crawler crane with its cleaner, more fuel efficient power units and a host of other new technology.

Kranlyft UK: Stand 415/16

Kranlyft will show several Maeda cranes, including the updated 2.82 tonne MC285C-3 spider crane, with a host of new features and detachable electric motor, along with its latest CC985 mini crawler crane. The company is also the UK distributor for Klaas aluminium truck



Liebherr LTM 1650-8.1



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ID	Fabricat	Category	Department	Next Insp.	Scheduled	Last Insp.	Action
5413	Almac/Scando 650	B - Byggeplassheis og vareloft	A	30.10.2018	-	30.10.2017	Action
147183 / 88	CatM315	MX - Masseforfyrning	A	04.07.2018	-	04.07.2017	Action

Filling from phone

Department Equipment Order Contact

Checklist

Customer: /

Equipment Fabricat: Almac
Equipment Model: Scando 650
Category Name: B - Byggeplassheis og vareloft

Equipment Types: Løftebord
Serial Number: 5413
Internal Nb / Other ID: /

1 Dokumentasjon NA 0-3

1.1 Samsvarserklæring

1.2 Bruksanvisning

PDF report

Attest for periodisk sakkyndig kontroll
KONTROLLRAPPORT
Maskingruppe: B BYGGEPLASSHEIS
M. Forfallt on administrative ordreg § 4.7 og Forfallt on utførelse av artikkel § 12.5 andre ledd.

DEMO KONTROLL AS

FAKTA	FAKTA	FAKTA	FAKTA	FAKTA	FAKTA
AVDSTED: A	TELEFON: 12345	TELIFAK: /	ADRESSE: /	EPST: /	SALVSKOMMET: Demo Kontroll As
SALVSKOMMET: Demo Kontroll As	SERTIFISERINGSGRAN: /	KONTROLLID: /	FABRIKAT: Almrak	MODEL: Scando 650	SERIE: 5413
ATTAK: /	ASAMODEL: /	TIDPUNKT: /	1.1. Dokumentasjon	0-3 U	5. Elektriske koblinger
1.1.1. Samsvarserklæring	0	5.1. Spennings- eller belastningsstyring	0-3 U	5.1.1. Spennings- eller belastningsstyring	0-3 U
1.1.2. Bruksanvisning	0	5.2. Spennings- og belastningsstyring	0-3 U	5.1.2. Standardverktøy	0-3 U
1.1.3. Fargekontroll	0	5.3. Slippespenningstyring	0-3 U	5.1.3. Gitterkonstruksjon	0-3 U
1.1.4. Vedlikeholds journal	0	5.4. Funksjonskontrollsystem	0-3 U	5.1.4. El. Foringningstrinnsplaner	0-3 U
1.1.5. El. Foringningstrinnsplaner	0	5.5. Funksjonskontrollsystem	0-3 U	5.1.5. Nødsstopp	0-3 U
1.1.6. Ombygging/operasjon	0	5.6. Diverse	0-3 U	5.1.6. Maskinbeskrivelsesfigurer	0-3 U
1.1.7. Diverse	0	5.7. Diverse	0-3 U	5.1.7. Gearkasse	0-3 U
1.1.8. Diverse	0	5.8. Mask	0-3 U	5.1.8. Prøving	0-3 U
1.2. Bruksanvisning	0	5.9. Tæringsang	0-3 U	5.1.9. Gerdemulter	0-3 U
2.1. CE-merke	3 X	5.10. Roter	0-3 U	5.1.10. Fangegreper	0-3 U
2.2. Maskemerk	0	5.11. Kablerstyringer	0-3 U	5.1.11. Bremser	0-3 U
2.3. Arbeidsbelastning	0	5.12. Kablerstyringer	0-3 U	5.1.12. Nødd-vedlig	0-3 U
2.4. Verneutrustning	0	5.13. Spettik / skader	0-3 U	5.1.13. Støt	0-3 U
				5.1.14. Nøddutløst	0-3 U

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NS-EN 1090-1 EX3

Prosesskart til NS-EN ISO 1090-1 EX3

Project Manager Evaluation of project Technical Review Planning Final documentation (I marking)

Working manager Technical Review Planning Following up marking Final inspection

HSE/QS-SYSTEM

Actions

- 1. Complete Report
- 2. Chemical list
- 3. Resources list
- 4. Expertise
- 5. Løst
- 6. Health and safety operations
- 7. Occupational and safety
- 8. Risk assessment
- 9. 1.2 Toxic and Hazardous Substances
- 10. 1.3 Fire and
- 11. 1.4 Hot work
- 12. 1.5 Noise
- 13. 1.6 vibration
- 14. The external environment
- 15. Preparedness
- 16. Fire and electric fire
- 17. Laws and regulations
- 18. Industrial protection
- 19. Arbeidsforhold
- 20. HMS-info
- 21. 14. Job Description

Doc.nr. 401-1: Veide Risikovurdering og matrise-DBA? Document

Doc.nr. 402-1: Spesifikke for risikovurdering og arbeidsforhold? Document

Doc.nr. 403-1: Enkel Enkel modell for ... Document

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Montarent: Stand TS11

Netherlands based mobile tower crane manufacturer Montarent will bring the Montalift M21 4-WDS self propelled, self erecting tower crane which features a Potain tower crane superstructure mounted on a compact all wheel drive chassis. The 21 metre/tonne crane has a 26 metre jib with a lifting height from 18.7 metres to 25.9 metres. Maximum capacity is 1,800kg. Trailer and crawler versions are also available.

NRC Plant: Stand 119

NRC will show the 80 tonne Hitachi Sumitomo HSC SCX800A-3 lattice crawler crane, as well as the new 110 tonne TCC-1200 telescopic crawler crane from Link-Belt.

Potain: Stand 114/15/16/17

See *Manitowoc Cranes UK/Skyline Arcomet*

Reedyk: Stand 204

See *Promax Access*

Rivertek: Stand 205/6/305/6

Rivertek, the European distributor for Kato cranes, will launch the new

Kato CR-250R-V

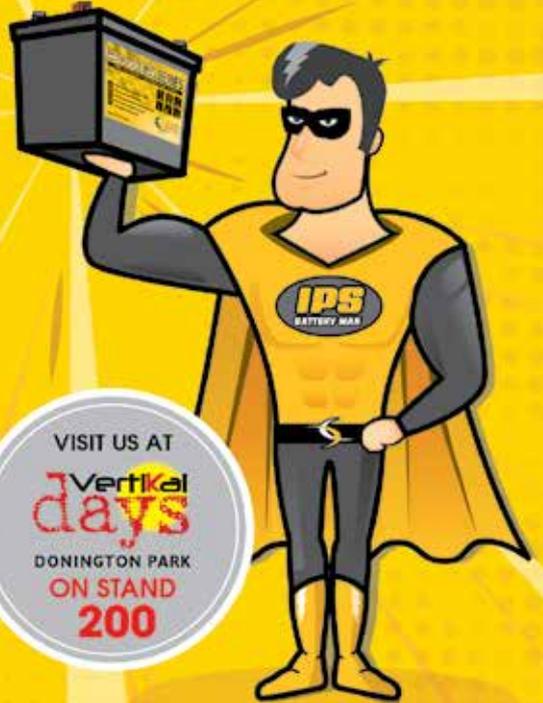


Montalift M21 4-WDS



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Arcomet A50 Eco

25 tonne CR-250R-V city type All Terrain crane, which will be shown alongside other city crane models including the 20 tonne CR-200Rf.

Saez: Stand 402

See London Tower Cranes

Skyline Arcomet: Stand 117

First time exhibitor Skyline Arcomet will show the Arcomet A50 Eco self erecting tower crane with 50 metre jib, hook heights up to 36 metres and a maximum capacity of 8,000kg. It will also highlight a number of new Terex tower cranes and the first model of the Potain MRH range of hydraulic luffing jib crane to be delivered to the UK. These will

be joined by the latest wireless anemometers from Scarlet Tech. The company also hopes to demonstrate the new LoRa super long range wireless anemometers and show its latest hybrid power solutions, alongside a tower crane simulator from MPS.

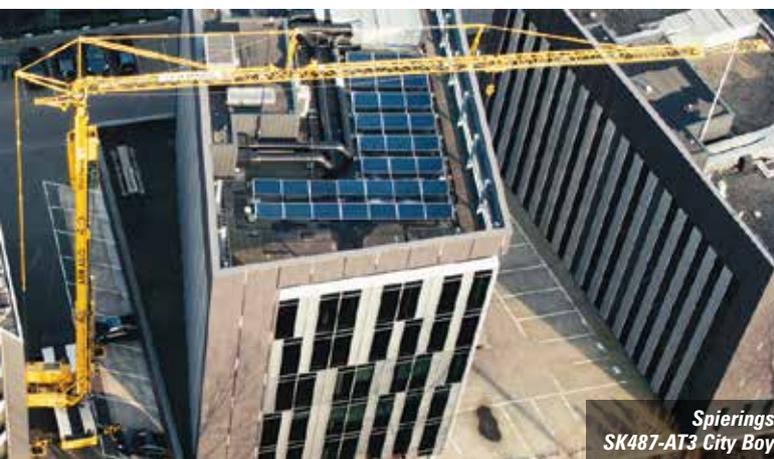
Smartlift: Stand 311

See Central Platform Services

Spierings: Stand 126

Spierings will show the first production version of its three axle SK487-AT3 City Boy hybrid mobile self erecting tower crane which can handle its maximum lift capacity of

Continued Page 68



Spierings SK487-AT3 City Boy



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Wednesday 15th May at 10.30am

Donington Park Media Centre, Donington Park, Castle Donington, Derby, DE7 2RP

The Crane Interest Group has been developing a Voluntary Roadworthiness Scheme for mobile cranes. The CIG Steering Committee has now approved the final version of the scheme, and members are invited to attend and participate in the CPA Introduction event for the Scheme.

This event is being hosted at Vertikal Days and will be taking place on Wednesday 15th May at the Donington Park Media Centre, commencing at 10:30am.

Register for this meeting by email to rob@cpa.uk.net

Following the meeting, attendees are invited to visit the Vertikal Days event at the Launch Pad site at Donington Park. Download your Vertikal Days visitor ticket from the website at

<https://vertikaldays.net/visit/visitor-registration>



Exhibitor and brand listing

A-Plant	Stand 208	Dynaset	Stand MP1	King Trailers	Stand 419/20	Rivertek	Stand 205/6/305/6
Access Industries	Stand 417	Eastman Heavy Machinery	Stand TS6	Klaas	Stand 415/16	Rolls Battery UK	Stand MP37a
Access Platform Sales (APS)	Stand 300	Eichinger	Stand 208	Klubb	Stand 411/12	RUD	Stand MP15
Access Sales International	Stand 210	ELS Lift	Stand 407a	Kobelco Cranes	Stand 127	Ruthmann	Stand 210
AD Astra Equipment	Stand 210	Euro Mechanical Handling	Stand 407a	Kran & Bühne	Stand MP26a	Ruthmann-Bluelift	Stand 112/13
Aerial and Handling Services	Stand 109a	Falcon Tower Crane Services	Stand MP8	Kranlyft UK	Stand 415/16	SAEClimber UK	Stand 307
AFI UpLift	Stand 310	Falcon Training Services	Stand MP8	Laing Access	Stand 311	Saez	Stand 402
Ainscough Training Services	Stand MP40	Faresin	Stand 112/13	Latch & Batchelor	Stand MP36	SafetyLiftinGear	Stand TS16
Airo	Stand 109a	Ferrari	Stand 404	Leguan	Stand 311	Scarlet Tech	Stand 117
AJ Access Platforms	Stand 310	Ferrari International	Stand TS5	LGMG - Lingong	Stand 111	Serious Labs	Stand 404b
Aldercote	Stand 300	FLG Services	Stand 208	Liebherr	Stand 422/23/24/25/26	Shawtrack Services	Stand 404
Alfa Access Services	Stand 110/414/MP21	Fontexx	Stand TS6	Liebherr Training	Stand 422/23/24/25/26	Shield Batteries	Stand MP22
Alimak	Stand 421	Foster Cranes	Stand 101	Lifting Gear UK	Stand MP34	Sky Aces	Stand 419/20
Allied Access	Stand 307	Fraco	Stand MP27a	Link-Belt	Stand 119	Skyjack	Stand 106
AL-Lift	Stand 308	Galizia	Stand 104/5	Load Monitoring Systems	Stand MP29	Skyking	Stand 419/20
Almac	Stand 408	Gallagher	Stand MP35a	London Tower Cranes	Stand 402	Skyline Arcomet	Stand 117
AMCS Technologies	Stand MP6/7	Gantic Battery Chargers	Stand MP21	Maber	Stand 308	Smartlift	Stand 311
AmerParts	Stand LP7	Gapo	Stand MP8	Mace Industries	Stand 413	SMIE	Stand MP31
Aresta	Stand LP6	GB Access	Stand 208	Maeda	Stand 415/16	Snorkel UK	Stand 112/13
Artic Crane	Stand 120	Geda	Stand 413	Magnetek	Stand MP27	Socage	Stand 302
ATN	Stand 202	Gehl	Stand 214	Magni UK	Stand 404a	Spandeck	Stand TS3/4
Avalia	Stand MP13	Genie UK	Stand 203/303	Mammoet UK	Stand MP19	Speedy Services	Stand 107
Avant Tecno	Stand 311	GGR	Stand 104/5	Manitou UK	Stand 214	Spierings	Stand 126
BG Lift	Stand 110	Glasboy	Stand 104/5	Manitowoc Cranes UK	Stand 114/15/16	Sterling GP	Stand 401
BigChange	Stand MP28	GMG	Stand 213	Mantall	Stand TS9	Straightpoint	Stand MP2
Bizzocchi	Stand 108	Gorbel	Stand MP15	MCS Rental Software	Stand MP32	Sunward	Stand 104/5
Bluelift	Stand 112/13	Grove	Stand 114/15/16	Mentor Training Solutions	Stand MP26	Syrinx	Stand MP9
Böcker UK	Stand 125	GSR Aerial Platforms UK	Stand 405/6	Miller Weblift	Stand MP11	Tackle Store	Stand TS16
BoSS	Stand 300	GT Lifting	Stand 313	Modulift	Stand MP3	Tecnomagnete	Stand MP15
Bravi	Stand 201	Helix	Stand 110	Montarent	Stand TS11	Teletrac Navman	Stand MP33
Bronto Skylift	Stand 418	Hematec	Stand 110	Multitel Pagliero	Stand 417	Tensology	Stand MP37
Capja	Stand MP36a	Hinowa	Stand 301	My Future My Choice	Launch Pad Building	Terex Cranes	Stand 129/30
Carl Stahl Evita	Stand MP15	Hird	Stand 102	Myerscough College	Stand MP5	Terex Utilities	Stand 411/12
Cela	Stand 110	Hitachi-Sumitomo	Stand 119	Nagano	Stand TS7/8	Teupen	Stand 414
Central Platform Services	Stand 311	Hitec Lift Trucks	Stand 207	Niftylift	Stand 314	Thermoil	Stand 200
Certags	Stand MP25	Hoeflon	Stand 101	Nolim	Stand TS1	Top Service	Stand MP14
City Lifting	Stand 120	Holland Lift	Stand 310	NRC Plant	Stand 119	Torgar	Stand MP27a
CLM/Maber	Stand 308	Identipro	Stand MP39	Ommelift	Stand 300	Toucan	Stand 409/10
Close Brothers Asset Finance	Stand LP5	Ifor Williams	Stand TS2	Orlaco	Stand MP31	Tower Cranes UK	Stand 122
Cobo 3B6	Stand 102	Imer	Stand 312b	OTR Wheel Engineering	Stand MP10	Towergate Insurance	Stand MP18
Comansa	Stand 120	Industrial Training Int. UK	Stand MP34a	Outriggerpads	Stand TS15	Tracked Carriers	Stand 415/16
Comet UK	Stand 100	insPHire	Stand MP23	Pagliero	Stand 417	Trackunit UK	Stand MP35
Construction Plant Finance	Stand TS12	Instant UpRight	Stand TS3/4	Palfinger Platforms	Stand 411/12/19/20	Tractel	Stand MP15
Cormidi	Stand 104/5	Interpump Hydraulics	Stand MP4	Paragon Bank	Stand 312a	Trojan Batteries	Stand MP17
CPA	Stand 128	Intron Plus	Stand MP37	PCM Transport and Handling Equip.	Stand TS5	Turbolber (UK)	Stand MP27a
CPL	Stand 411/12	IPAF	Stand 404b	Pfeifer Machinery	Stand TS7/8	TVH	Stand 304
Crane Trader	Stand MP38	IPS	Stand 200	Platform Basket	Stand 204	TVH Academy	Stand MP20
Cranes & Access	Stand MP26a	IronPlanet	Stand MP30	Platinum International	Stand MP17	Unic	Stand 104/5
Cranes Today	Stand MP26a	Isoli	Stand 419/20	Point of Rental Software	Stand MP9	Unitex UK	Stand MP11
Cranesafe	Stand MP31	Jaso	Stand MP8	Pop-Up	Stand 112/13	Universal Crane Mats	Stand TS10
Crowland Cranes	Stand MP24	JCB	Stand 209/309	Potain	Stand 114/15/16/17	Valla	Stand 102
Crown Batteries	Stand MP22	Jekko	Stand 103	Power Towers	Stand 409/10	Verope	Stand MP36
CTE UK	Stand 108	JLG	Stand 409/10	Promax Access	Stand 204	Versalift UK	Stand 211/12
Demag	Stand 129/30	JMG Cranes	Stand 403	PSR	Stand 203/303	Vertikal Press	Stand MP26a
Denka	Stand MP21	Jost	Stand 402	Rayco Wylie Systems	Stand TS17	Wienold	Stand 300
Dingli	Stand 407b	JT Crane Services	Stand 103	Reedyk	Stand 204	Wienold Lift	Stand 300
Dinolift	Stand 311	Kässbohrer	Stand 404	RidgeGear	Stand MP11	Winlet	Stand 102
Durham Lifting	Stand MP41	Kato	Stand 205/6/305/6	RIM Wizard	Stand MP24	Xenith Heights	Stand LP6
				Rima UK	Stand MP12	Xtreme	Stand 112/13
				Ritchie Bros	Stand MP30	Yamei	Stand 310
						Youngman	Stand 300
						Zhejiang Dingli	Stand 407b

Outdoor Site Plan

Vertical days

DONINGTON PARK
May 15th-16th 2019

MARKETPLACE

- Ainscough Training Services
- Alfa Access Services
- AMCS Technologies
- Avalia
- BigChange
- Capja
- Carl Stahl Evita
- Certags
- Crane Trader
- Cranes Today
- Cranes & Access
- Cranesafe
- Crowland Cranes
- Durham Lifting
- Dynaset
- Falcon Training Services
- Gallagher
- Identipro
- Industrial Training International UK
- inspHire
- Interpump Hydraulics
- Kran & Bühne
- Latch & Batchelor
- Lifting Gear UK
- Load Monitoring Systems
- Magnetek
- Mammoet UK
- MCS Rental Software
- Mentor Training Solutions
- Modulift
- Myerscough College
- OTR Wheel Engineering
- Platinum International
- Point of Rental Software
- Rima UK
- Ritchie Bros
- Rolls Battery UK
- Shield Batteries
- Straightpoint
- Teletrac Navman
- Tensology
- Top Service
- Towergate Insurance
- Trackunit UK
- Turbolber (UK)
- TVH Academy
- Unitex UK
- Vertikal Press

Exhibitor
Parking

Visitor
Parking

Ifor Williams

Nolim

J24 J31

Magni UK

Amer Xentith

Close Bros

Parts Heights

JT Cranes

Hird

Foster Cranes

Comet UK

103

102

101

100

404

401

Entrance

TS12

TS11

Construction Plant Finance

Montarent

UCM

Mantall

Pfeifer Machinery

Fontexx

PCM

Instant UpRight

TS3/4

LP7 LP6

Close Bros

Finance

Shawtrack

JMG

London Tower Cranes

Sterling GP

404

402

401



BBQ

CATERING PAVILION

Terex Demag

129-130

CPA

128

Kobelco

127

Spierings

126

Böcker

125

Tower Cranes UK

122

City Lifting

120

NRC

119

Skyline Arcomet

117

Manitowoc Grove Potain

114-116

Snorkel

112-113

LGMM

111

Alfa Access

110

Aerial and Handling Services

109

CTE

108

Speedy Services

107

Skyjack

106

GGR Unic

104-105

Genie

203 303

ATN

202 302

Bravi

201 301

IPS

200 300

APC

205/206

305/306

Promax

204

TVH

304

Rivertek

207

SAE

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Hitec

208

CLM

308

FLG Services

209

309

JCB

209 309

Manitou

214

314

Niftylift

213

313

GT Lifting

211-212

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CPS

210

310

ASI

AJ Access

310

Versalift

312b

Paragon Banksta

312

Imer

422-426

Liebherr

421

Alimak Hek

419-420

Skyking

418

Bronto

417

Multitel Pagliero

415-416

Kranlyft Mieda

414

Toupen

413

Mace/Gala

412

CPL

409-410

JLG

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Almac

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TS-1

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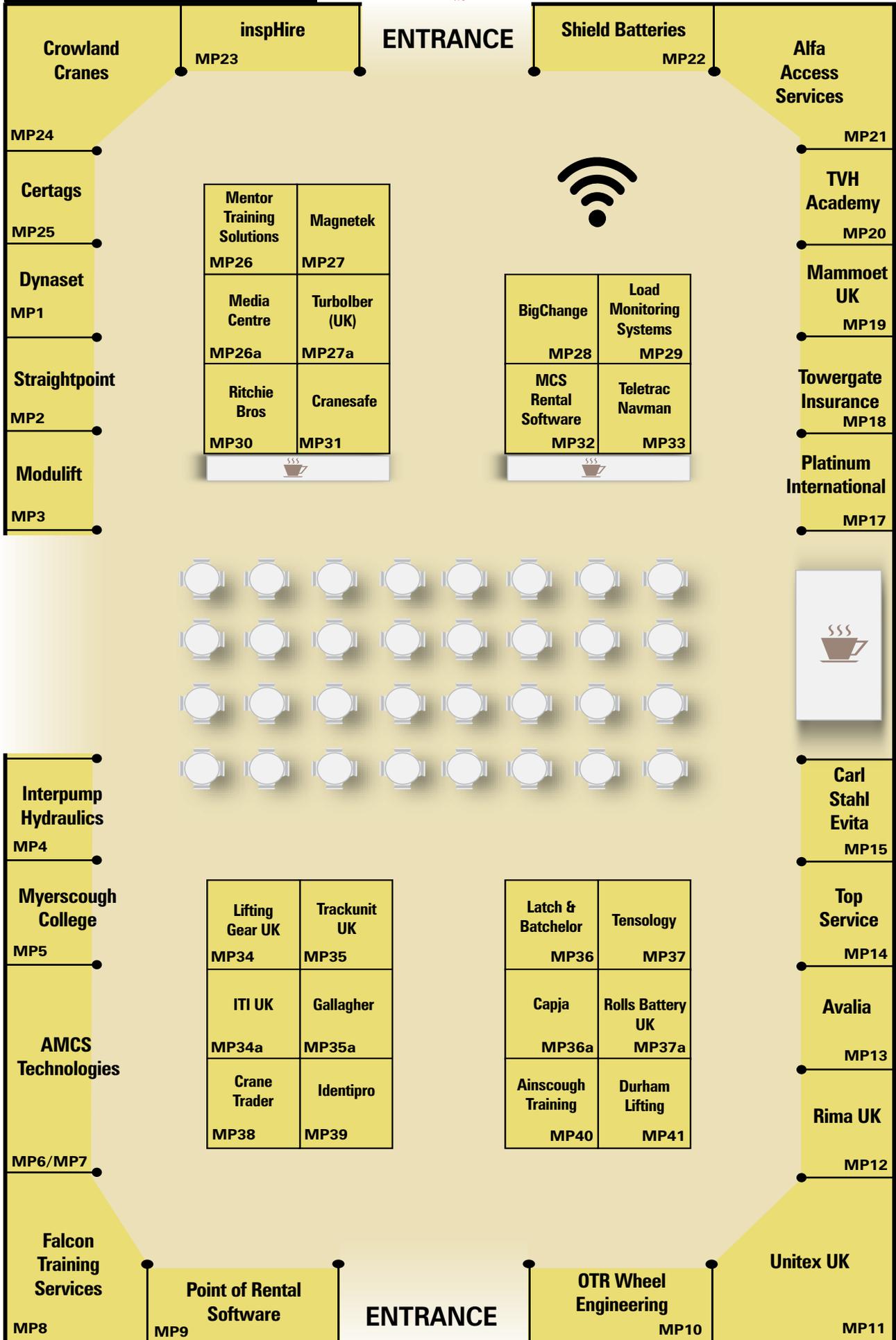
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Marketplace



DONINGTON PARK
May 15th-16th 2019



Competitions, special deals and promotions

As in previous years a number of exhibitors are organising competitions and promotions on their stands. You may find an exciting deal on a new product or service, or maybe something just for fun. So if you are looking for a good deal or are simply interested in trying your luck at winning a prize and having a bit of fun, then pay a visit to the following stands.

Access Platform Sales (APS):
Stand 300

APS is giving visitors the chance to win a BoSS X3X micro scissor lift. Participants can enter by filling out a form with their details, as well as the missing word from the sentence 'BoSS X-Series - Built for the great [blank]'. The winner will be drawn at 14:30 on the Thursday at the show.



will be entered into a free prize draw at the end of that day for the star prize. Winners will be notified by text or email at the end of each day.

Durham Lifting: Stand MP41

First time exhibitor Durham Lifting is giving you the chance to win a multi-sec modular spreader beam system. Simply place your business card into the jar for your chance to win. The winning card will be drawn at the end of the event, and the winner can either take the beam home with them or delivery will be arranged.

FLG Services: Stand 208

Visitors to FLG's stand will have the chance to win two tickets to the Bennetts British Superbike Championship at Donington Park from 24th to 26th May. To enter, simply drop your business card in the bowl on its stand.



Foster Cranes: Stand 101

New exhibitor Foster Cranes will have a special deal just for Vertikal Days. There will be 10 percent off the list price for anyone who quotes VDAYS19 at the show.

GMG: Stand 213

GMG will be offering a 10/5 year warranty at the show, so if you

want a good deal then make sure you visit its stand.

IPS: Stand 200

IPS will hold a competition to win a track day at Donington Park. To enter, participants will have their picture taken in the company's 'face in the hole' as the IPS Battery Man and fill in a postcard form. The winner will be drawn on 17th May.



OTR Wheel Engineering:
Stand MP10

Look out on OTR's stand for some special offers and discounts for machine sets of wheels, tyres and foam filled wheel assemblies.



Promax Access: Stand 204

Promax Access will have an 'Estimation Station' on its stand this year, allowing visitors the opportunity to test their technical ability to calculate the number of finely engineered ball bearings contained in a glass display container. The correct winning entry will receive a free Promax Access safety harness, and the three closest entries will receive a model spider lift.

SafetyLiftinGear: Stand TS16

SafetyLiftinGear will be offering a show exclusive - a special five percent discount off its whole range. Customers will also have the opportunity to sign up to its trade website - safety-lifting.com to obtain special trade prices.

Straightpoint: Stand MP2

Straightpoint invites you to test your strength to win one of its load cells. Go and see how strong your pull is!

Tower Cranes UK: Stand 122

Drop your business card at Tower Cranes UK's stand, where the prize is two tickets in the TCUK Group Box to see The Eagles at Wembley Stadium on 23rd June. The draw and the winner will be announced at the stand on the Thursday at 3pm.

TVH: Stand 304/MP20

Bring your business card and take part in TVH's raffles on both its stands MP20 and 304. On 304 there will be a mobile roller cabinet up for grabs, and on MP20 you could win a one day technical training course for one person.



Unitex UK: Stand MP11

This year Unitex UK will be offering visitors the chance to win two £100 Cineworld vouchers by taking part in its 'Harness Hero' competition. Participants will fit and adjust an RG4 onto a mannequin in the quickest time possible - pending inspection from a Unitex UK member of staff - paying special attention to the harness checklist available nearby. The quickest person on each show day will be announced on social media at 6pm.





Hoists, Lifts & Work Platforms

For over 70 years, Alimak has been the world's leading producer of rack & pinion driven access lifts, construction hoists and mast climbing work platforms.

Alimak offers an efficient solution to the vertical transportation of passengers and materials. The heavy duty drive system is perfect for use in the construction industry and in a range of industrial facilities, such as:

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Vertikal Days: Stand 421

Plantworx: Stand PB1

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ALIMAK

seven tonnes at 12 metres radius, and 1,700kg at its maximum 40 metre radius. Also on display will be a four axle, seven tonne capacity SK597-AT4 mobile self erecting tower crane.

Sunward: Stand 104/5

See GGR

Terex Cranes: Stand 129/30

Terex has yet to say what it will have on the stand, but expect to see the three axle 45 tonne Demag AC 45 City All Terrain crane, alongside some of its larger models.

Tower Cranes UK: Stand 122

First time exhibitor Tower Cranes UK will present its new Liebherr LTM 1160-5.2 All Terrain crane used for erecting and dismantling its tower crane rental fleet which will also be highlighted on the stand.

Unic: Stand 104/5

See GGR

Valla: Stand 102

See Hird

Wienold: Stand 300

See APS

Winlet: Stand 102

See Hird



Liebherr LTM 1160-5.2 from Tower Cranes UK



Other equipment and services etc...

Ainscough Training Services: Stand MP40

Ainscough Training Services is one of the largest independent specialist training providers in the UK, delivering training to industries wherever lifting operations take place, including construction, manufacturing, engineering and transportation, aerospace, renewable energy, utility sectors and the MoD. The company is also a Construction Plant Competence Scheme test centre and runs

National Vocational Qualifications assessments.

AMCS Technologies: Stand MP6/7

French manufacturer of tower crane safety devices AMCS Technologies designs and manufactures high end electronic devices for tower cranes and other machinery. On the stand will be its latest product, the DCS 60 anti-collision and crane management system, which manages interactions between cranes to remove any risk of collision.

The AMCS DCS 60 anti-collision system.



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Vertical
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Call
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to book your free
demonstration

AmerParts: Stand LP7

AmerParts supplies replacement parts for aerial lifts and will show its new battery charger designed for Holland Lift scissor lifts. The company will also promote PowerSource - its range of water resistant battery chargers - as well as non-marking solid wheels for all leading brands, joysticks, control boxes and other electronic components.

Aresta: Stand LP6

See Xenith Heights

Avalia: Stand MP13

Making its first appearance at Vertikal Days, Norwegian software company Avalia will present online based solutions to assist with day to day business activities including QHSE, where users can complete projects, risk managements, checklists and more. It will also present a CRM tool called SuperOffice to aid with the handling of contracts, documents and emails.

BigChange: Stand MP28

Another first time exhibitor, BigChange will demonstrate its mobile asset and work management system JobWatch, which

provides a paperless way to plan, manage, schedule and track jobs, vehicles and equipment. The all in one system handles the entire business process from booking to invoicing with drivers and engineers using mobile devices to replace paperwork. JobWatch is synchronised in real time with BigChange booking, CRM and invoicing apps. The company will also show a new collaboration tool that allows firms to form a virtual network for subcontracting rentals.

Capja: Stand MP36a

Capja provides solutions to move companies from manual processes - such as paper - to automated, digital ones. The company provides consultancy and software services such as mobile phone apps. For the rental sector, Capja can digitise documents such as risk assessments and method statements, and can also automate simple forms such as timesheets and equipment checks.

Carl Stahl Evita: Stand MP15

Carl Stahl Evita will launch the G-Force and Easy Arm devices, also known as Intelligent Assist Devices (IADs). The company says its fusion



PowerSource from AmerParts

of advanced technology and human guidance maximises productivity while minimising the risk of injury to the operator. There will also be two models of Gorbelt Intelligent Lifting Devices to choose from - the Q and the iQ. The Q model offers the same speed and precision as the higher end iQ model, but the iQ model offers additional intelligence features.

Certags: Stand MP25

First time exhibitor Certags manufactures heavy duty identification and inspection products designed for use in the lifting and crane industry. Its newest product, the UltraWrap, is used for

attaching RFID tags to equipment, while other products include the Ziptag which is customisable with company logos, inspection dates, colour coding and sequential numbering. It will also show the ComplyPro printing system which allows users to print everything from heavy duty asset labels to safe working load signs for cranes.

Close Brothers Asset Finance: Stand LP5

Close Brothers Asset Finance provides finance for businesses wanting to buy new or pre-owned equipment. Ask about advice, whether you are looking to expand

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- Fully configurable to the customer's requirements.



Visit us at stand **MP15** in the marketplace to find out more.



www.carlstahlevita.co.uk



your range of equipment or replace it. The company is backed by UK merchant bank Close Brothers and offers solutions to hire purchase, lease and refinancing.

Construction Plant Finance: Stand TS12

Construction Plant Finance (CPF) is an independent asset finance company providing finance requirements specifically for the access, crane and construction industries. CPF directly deals with customers whilst also offering bespoke vendor schemes for manufacturers and dealers. Visit the stand to discuss tailored asset finance solutions as well as information on other financial products including contract rental, invoice finance and business loans.

Cobo 3BS: Stand 102

See Hird

CPA: Stand 128

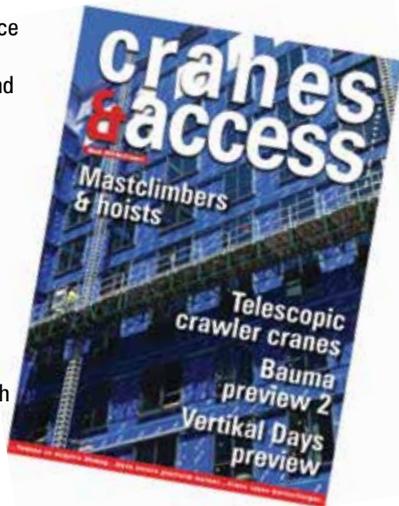
The Construction Plant-hire Association represents equipment rental companies and is the main association for crane rental companies in the UK. Its 1,600 members represent 85 percent of the equipment rental market, the CPA publishes a wide range of guidance documents which are distributed widely throughout the construction sector and are available online. The organisation will hold a free open seminar during the event.

Crane Trader: Stand MP38

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

Cranes & Access: Stand MP26a

There will be copies of the industry leading Cranes & Access magazine available around the show.



Throughout the year each issue has features, stories and news. The magazine is published by the show organiser Vertikal.

Cranes Today: Stand MP26a

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

Cranesafe: Stand MP31

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

Crown Batteries: Stand MP22

See Shield Batteries

Durham Lifting: Stand MP41

New exhibitor Durham Lifting will show Multi-Sec modular spreader beams which offer a wide variety of spans, configurations and capacities to suit specific lifting applications up to 250 tonnes.

Dynaset: Stand MP1

Dynaset is a manufacturer of hydraulic generators, power

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With more than a century of history, Multitel Pagliero has become a strong reference point for the whole access industry. Aluminium components are the result of a continuous research and technological development since more than 30 years. Technical innovation, perfect market fit, and outstanding performances make the Multitel product the solution for your safety at work.

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SINCE 1911

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washers and compressors offering components to install onto an existing hydraulic system. It has plenty of experience working with various major manufacturers.

Eichinger: Stand 208

See *FLG Services*

Falcon Training Services: Stand MP8

The training division of Falcon Tower Crane Services will be in the Marketplace and will have instructors on hand to discuss its range of CPCS courses for tower cranes and lifting operations.

Ferrari International: Stand TS5

See *PCM Transport and Handling Equipment*

Gallagher: Stand MP35a

First time exhibitor Gallagher is a specialist, nationwide and a CPA recommended insurance broker.

With a range of cover options and enhanced service levels, the company helps to simplify insurance, reduce premiums and provide expertise that supports growing businesses.

Gantic Battery Chargers: Stand MP21

See *Alfa Access Services*

Gapo: Stand MP8

See *Falcon Training Services*

Glasboy: Stand 104/5

See *GGR*

Gorbel: Stand MP15

See *Carl Stahl Evita*

Identipro: Stand MP39

Identipro's range of sign and label print systems allow users to quickly mark their equipment and tools by printing their own industrial grade, bespoke labels including durable asset labels, safety signs and labels with safety

symbols included. On the stand will be the latest i3300 printer and a wider range of label materials than ever before.

Ifor Williams: Stand TS2

Ifor Williams is the UK's leading manufacturer of light trailers for transporting a wide range of equipment behind a van, 4X4 or car.

Industrial Training International UK: Stand MP34a

ITI UK will be offering demonstrations of its VR crane simulator, which includes Rough Terrain, overhead and tower crane simulations. Visitors are also invited to try out OperatorPro, a new mobile application for equipment operators to log shifts and activities.

Interpump Hydraulics: Stand MP4

Part of the Interpump Group, Interpump Hydraulics offers a range of hydraulic and mechanical products, supplying markets such as off highway, fire, refuse, commercial vehicle and factory plant hydraulics. The company provides Power Take Offs, hydraulic pumps, split shafts and power packs.

inspHire: Stand MP23

Rental management software provider inspHire will launch the new Operated Plant Module at the show which digitises the resource management process giving businesses the tools to assign operators to jobs, whilst cross referencing the licenses, cards and qualifications they hold as well as offering operators the ability to enter timesheets on a mobile device.

Intron Plus: Stand MP37

See *Tensology*



Come and try out ITI's crane simulator

IPAF: Stand 404b

The IPAF 2019 safety campaign focuses on addressing the increase in accidents while operating an aerial work platform alongside or on roads. This trend has been identified through IPAF's accident reporting project and is a significant cause of work at

height accidents. The campaign will emphasise the effectiveness of planning and traffic management to reduce the danger of operating near pedestrians and vehicle traffic.



Identipro's i3300 printer



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Let's Change Things Together

IPS: Stand 200

IPS will display a selection of batteries for access equipment including its power series range. The IPS Parts Store vans, which deliver parts around the country, will also be on the stand. The company says it has recently placed the largest ever order for Genie replacement parts in the European, Middle East and Russia regions and will be bringing a selection of these for various Genie machine models.

IronPlanet: Stand MP30

See *Ritchie Bros*

Kässbohrer: Stand 404

See *Shawtrack Services*

King Trailers: Stand 419/20

See *Skyking*

Kran & Bühne: Stand MP26a

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



Latch & Batchelor: Stand MP36

Latch & Batchelor supplies Verope specialist wire rope for use with tower, All Terrain and crawler cranes. The company has a dedicated crane service centre in Birmingham, where its ropes are measured and end fittings are added. Its stand will feature a number of Verope rope samples.

Liebherr Training: Stand 422/23/24/25/26

See *Liebherr*

Lifting Gear UK: Stand MP34

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



Verope wire rope will be on Latch & Batchelor's stand

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Load Monitoring Systems:

Stand MP29

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

Magnetek: Stand MP27

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



Equipment from Load Monitoring Systems



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

MCS Rental Software: Stand MP32

This year, MCS will show its latest digital document signing solution, MCS E-Sign, alongside its Telematics Hub feature. MCS E-Sign gives rental companies the power to do business with their customers by removing the barriers their customers face when signing quotes and contracts with a pen and paper. It will also show its MCS-rm hire management software solution - an operational system used by many powered access, lifting and construction rental companies - as well as RM

Mobile, a handheld version of the MCS-rm solution.

Mentor Training Solutions: Stand MP26

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

Miller Weblift: Stand MP11

See Unitex UK



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Modulift: Stand MP3

Modulift is a supplier of spreader beams for lifting, lifting beams, spreader frames and other below the hook lifting equipment. The company offers spreader beams up to 600 tonnes worldwide through its distributors and rental partners.

My Future My Choice: Launch Pad Building

Sponsored by Liebherr, My Future My Choice works with up to 30 local school children on each day of the show, who will tour the site and work on engineering challenges. The children will take part in workshops and get the chance to operate a Liebherr crane.

Myerscough College: Stand MP5

Celebrating 125 years in the education sector, Myerscough College specialises in the education and training of 20 different subjects and delivers a wide range of specialist industry and short course training, ranging from level one to postgraduate level. It also delivers apprenticeships in Construction Plant Maintenance to crane and access rental companies across the country.

Nolim: Stand TS1

Nolim is one of the largest European suppliers of outrigger pads and road mats and will show its range of outrigger pads, slide on outrigger shoes, road mats and



Modulift beams

stowage boxes.

Orlaco: Stand MP31

See *Cranesafe*

OTR Wheel Engineering: Stand MP10

OTR manufactures and supplies wheels, tyres, foam fill and a service exchange program (old for new) for most aerial lifts. On display will be new ultra-low-profile tyres, a mixture of black and

non-marking grey tyres, scissor lift wheels, low profile telehandler tyres and its new aluminium and steel crane wheels. Look out for some special offers and discounts for machine sets of wheels, tyres and foam filled wheel assemblies.

Outriggerpads: Stand TS15

Outriggerpads will show a range of different outrigger pads, including large crane pads for heavy lifting from its premium range as well as high visibility and interlocking multi mat ranges. It will also display the new SmartStore, which features a fold down lockable gate

to enable easy loading and secure transportation. Brand new cribbing blocks will also be shown, ideal for use in workshops, as well as the new oscillating axle testing ramp.

Paragon Bank: Stand 312a

With more than 30 years of experience in asset finance, Paragon Bank offers financial solutions from short term loans to comprehensive funding packages for public and private limited companies, partnerships and sole traders across a number of sectors including cranes and access equipment.



OTR's aluminium crane wheels



Cribbing block from Outriggerpads

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Agility is the key to reaching confined spaces. At only 1.45m (4 ft. 9 in.), the ultra-narrow width of the **Snorkel S2755RT** fits in places where a standard width machine would have difficulties. While it can reach a maximum working height of 10.1m (33 ft. 1 in.), this machine is also lightweight and can be towed on a car trailer between jobs. Add to that rugged 4-wheel drive and optional bi-energy for a highly versatile scissor lift that can go the distance on all terrains.

Snorkel S2755RT
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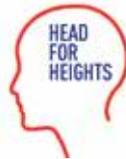
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PCM Transport and Handling Equipment: Stand TS5

PCM specialises in the supply of transport and handling equipment and the import of premium lorry loader crane attachments and accessories. PCM is the UK distributor for Italian attachments manufacturer Ferrari International and will be exhibiting products and equipment from the latest range including hose reels, radio remote controls and additional stabilisers. Also on display will be a range of anti-skid and high visibility outrigger pads from the PCM Ritespec range together with aluminium hydraulic oil tanks.

Platinum International: Stand MP17

Platinum will show its deep cycle batteries from Platinum International and Trojan Batteries, including their latest new products. The Platinum team will also be on hand to educate and answer questions on deep cycle batteries and their technologies.

Point of Rental Software: Stand MP9

Point of Rental Software provides rental software to various

industries and has offices in the UK, USA and Australia. This year the company will show its Rental Elite and Syrxn programs which track contracts, reservations, inventories and more.

PSR: Stand 203/303

See Genie UK

Rayco Wylie Systems: Stand TS17

Rayco Wylie provides wired or wireless custom overload monitoring systems. Products on

display will include the i4500 range of indicators, the i4300 system and the new i4000 multipurpose indicator.

RidgeGear: Stand MP11

See Unitex UK

RIM Wizard: Stand MP24

See Crowland Cranes

Rima UK: Stand MP12

Rima UK will show its range of

mechanical parking jacks, hydraulic cylinders and stabilisers as well as industrial turntables and slew rings.

Ritchie Bros: Stand MP30

The world's largest equipment auctioneer Ritchie Bros will be on hand to discuss its onsite auctions with online bidding, plus monthly online auctions and MarketPlace-E from IronPlanet.



See the Syrxn app on Point of Rental Software's stand



Find crane stabilisers from Ferrari International on PCM's stand



i4000 indicator from Rayco Wylie



Platinum deep cycle batteries

**Vertical
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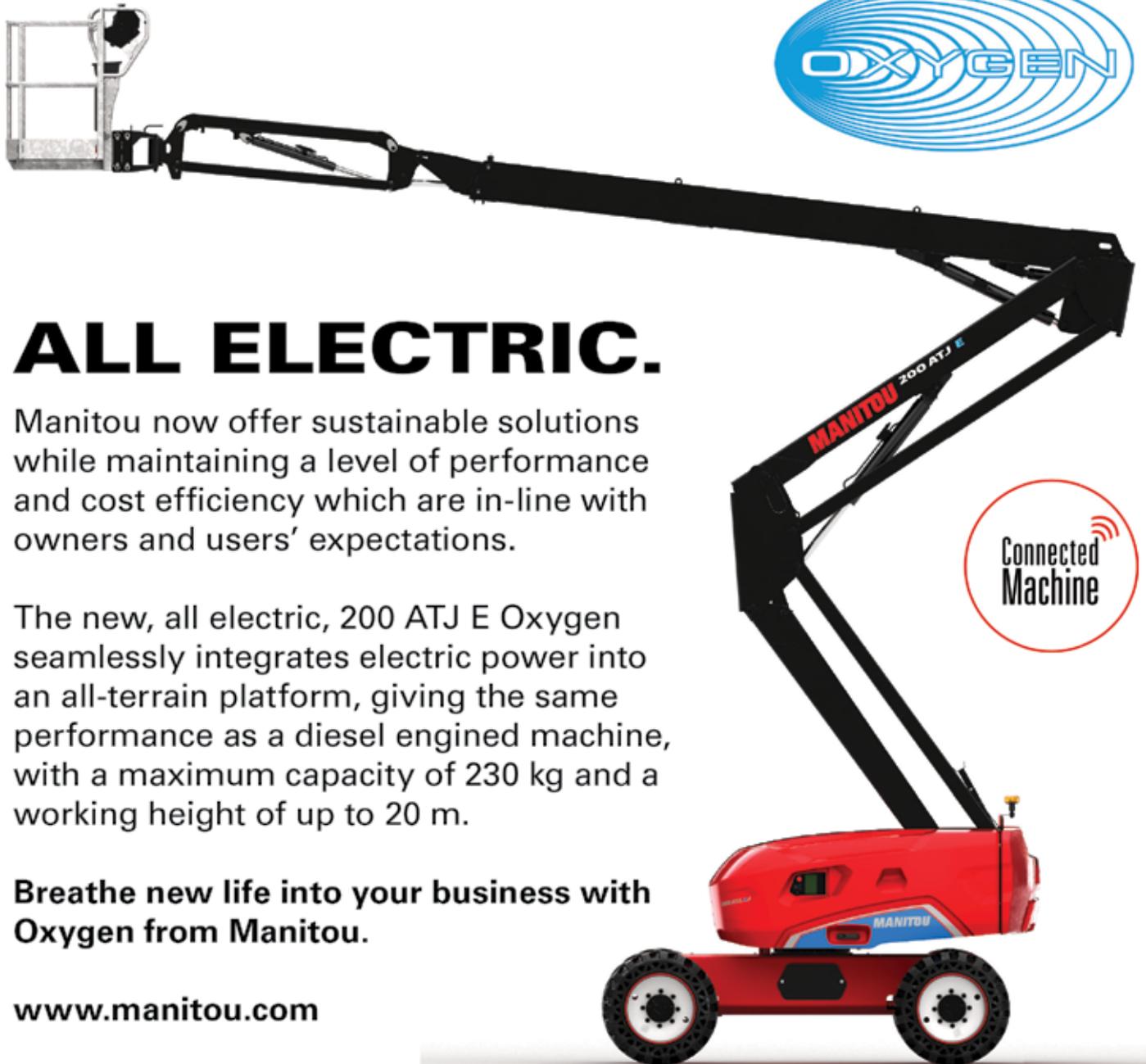
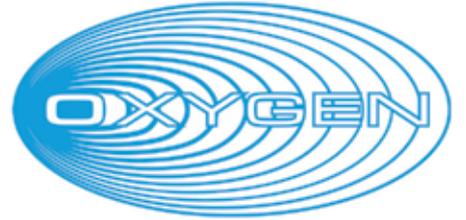
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Rolls Battery UK: Stand MP37a
First time exhibitor Rolls Battery UK specialises in the production of heavy duty deep cycle batteries for various markets including motive power, renewable energy, marine and railroad applications.

RUD: Stand MP15

See Carl Stahl Evita

SafetyLiftinGear: Stand TS16
SafetyLiftinGear is a supplier of lifting equipment, materials handling, load restraint, height safety and confined space products to the UK rental and construction industries. At Vertikal Days it will be offering a show exclusive - a special five percent discount off its whole range. Customers will also have the opportunity to sign up to its trade website - safety-lifting.com to obtain special trade prices.

Scarlet Tech: Stand 117

See Skyline Arcomet

Serious Labs: Stand 404b

See IPAF

Shawtrack Services: Stand 404

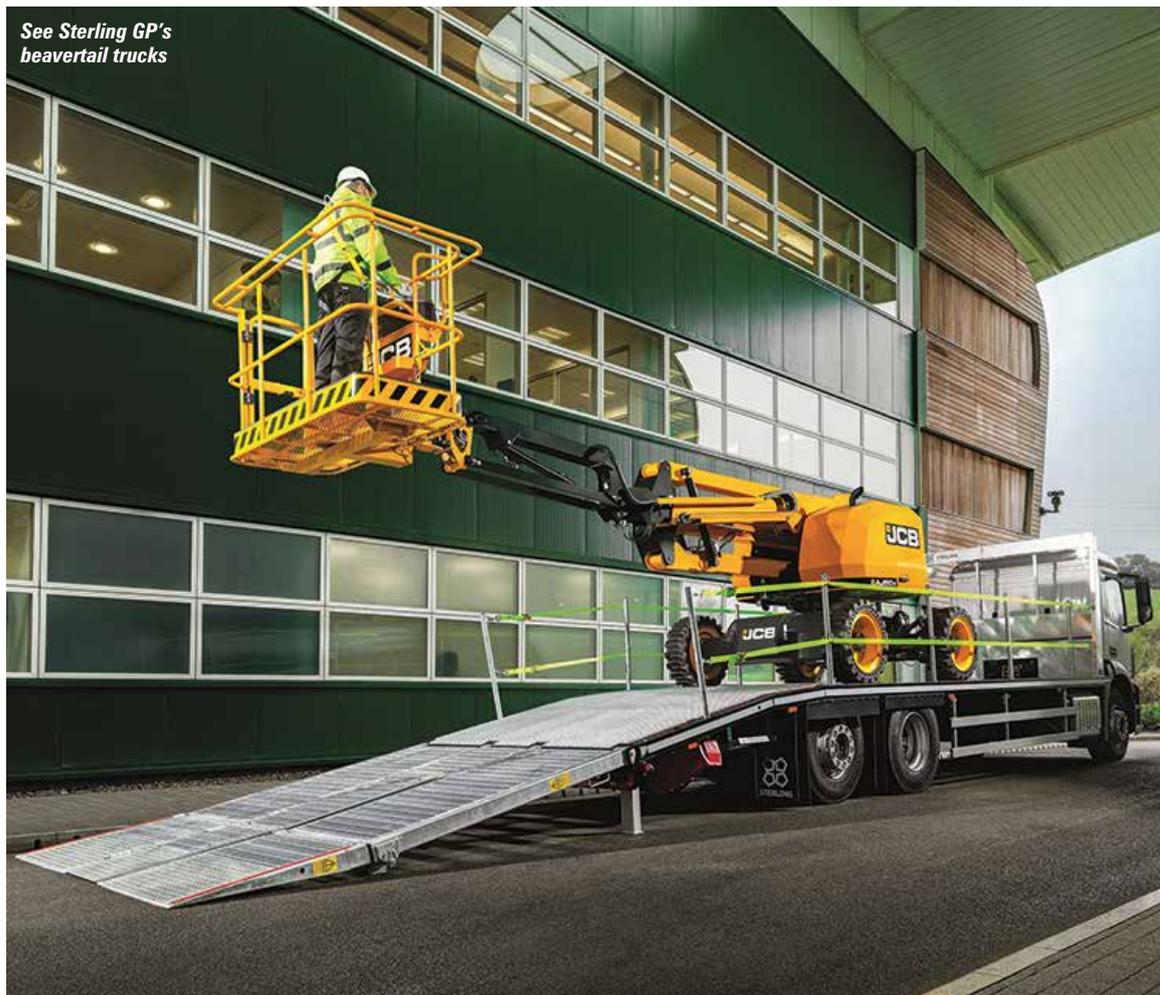
Shawtrack will show bespoke designed and built beavertail bodies for transporting aerial work platforms, telehandlers and other equipment. The company is also a supplier for Kässbohrer low bed trailers ranging from 48 to 64 tonnes.

Shield Batteries: Stand MP22

Shield Batteries is the UK distributor for Crown Batteries - one of the leading international deep cycle battery manufacturers - widely used as original equipment by aerial lift manufacturers. Shield also offers a competitive



Crown Batteries CR-390 will be on the Shield Batteries stand



See Sterling GP's beavertail trucks



Radiolink Plus from Straightpoint

replacement service for fleet owners.

SMIE: Stand MP31

See Cranesafe

Sterling GP: Stand 401

Sterling GP supplies rigid plant bodies to the access and equipment rental industry. It has recently introduced the Sterling ST440 low loader trailer to its product range and will be displaying a range of beavertail trucks primarily configured for access platform transportation.

Straightpoint: Stand MP2

Straightpoint manufactures load monitoring products to the lifting industry. It will display its flagship products - the Radiolink Plus and Wireless Loadshackles - both part of its wireless range. It will also show its SW-MWLC high speed wireless data logging software allowing for simultaneous control, display and real time data logging of up to 100 Straightpoint wireless load cells.

Syrinx: Stand MP9

See Point of Rental Software

Tackle Store: Stand TS16

See SafetyLiftinGear

Tecnomagnete: Stand MP15

See Carl Stahl Evita

Teletrac Navman: Stand MP33

Teletrac Navman provides location based technology and services for managing mobile assets and tracks and manages more than 500,000 vehicles around the world. It will show its recently launched Site360 platform, which equips construction businesses with the hardware and software needed to manage multiple assets, including equipment, tools and HGVs at any one time, giving accurate real time reports via a desktop or mobile device.

Tensology: Stand MP37

Tensology carries out crane rope inspections and examinations using experienced technicians and state of the art equipment. At the show it will launch the next generation of INTROS MRT equipment, capable of testing ropes from six to 45mm



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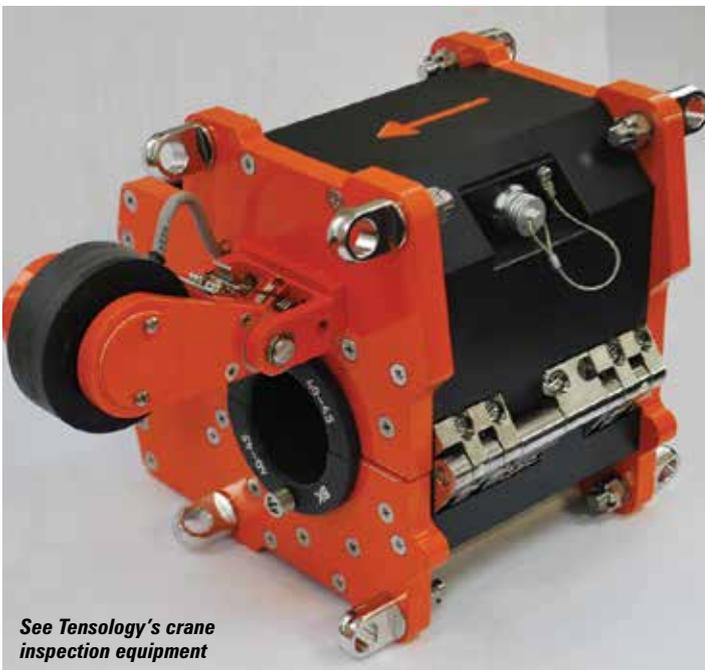
Lifterz
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See Tensology's crane inspection equipment

in diameter from manufacturer Intron Plus. The equipment is designed for use on crane ropes and can detect defects using the latest WINTROS software.

Thermoil: Stand 200

See IPS

Top Service: Stand MP14

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

Towergate Insurance: Stand MP18

Towergate's stand will include information about the insurance services it offers, with particular

focus on crane and equipment rental. It insures a large number of mobile crane rental companies and is a CPA and IPAF member. Visit the stand to ask about its services and its promotional items.

Tracked Carriers: Stand 415/16

See Kranlyft UK

Trackunit UK: Stand MP35

The company will highlight its latest telematics and vehicle tracking solutions for aerial work platforms, telehandlers, cranes and other equipment.

Tractel: Stand MP15

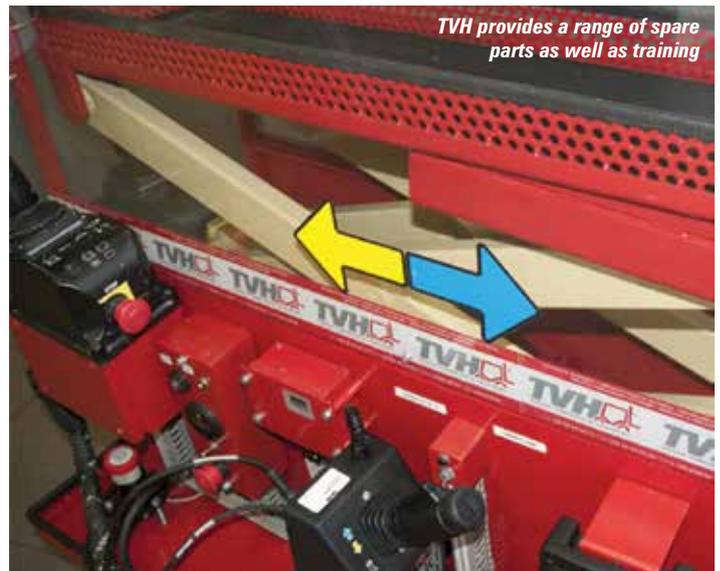
See Carl Stahl Evita

Trojan Batteries: Stand MP17

See Platinum International

TVH: Stand 304

TVH offers a full range of spare parts including joysticks, printed circuit boards, non-marking



TVH provides a range of spare parts as well as training

wheels, switches, sensors and much more. The company will discuss its planned technical training courses for 2019. Pop by the stand to discover its latest 'Replacement parts for mobile elevating work platforms' catalogue. Also don't forget to bring your business card and take part in its raffle.

TVH Academy: Stand MP20

TVH Academy is supporting IPAF on technical training courses carried out by training partner F-TEC based in Swindon. The company will launch its very latest aerial lift training platform on its stand and will be providing demonstrations throughout the event.

Unitex UK: Stand MP11

Unitex UK will display new products including the Finch work positioning/adjustable restraint lanyard, tie back lanyards and a sneak preview

of the RG16 Comfort Harness.

This universal harness has been completely redesigned with features including a new adjustable waist belt to ensure maximum comfort at the hips where the side D rings are located and ultra-lightweight fittings. It will also show the next phase of Glow flat slings from Miller Weblift.

Universal Crane Mats:

Stand TS10

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

Verope: Stand MP36

See Latch & Batchelor

Vertikal Press: Stand MP26a

International specialist publisher and provider of information on the lifting industry, including Vertikal. net online database and news portal and Cranes & Access and Kran & Bühne magazines. The company is also the organiser of Vertikal Days and other events.

Vertikal

Xenith Heights: Stand LP6

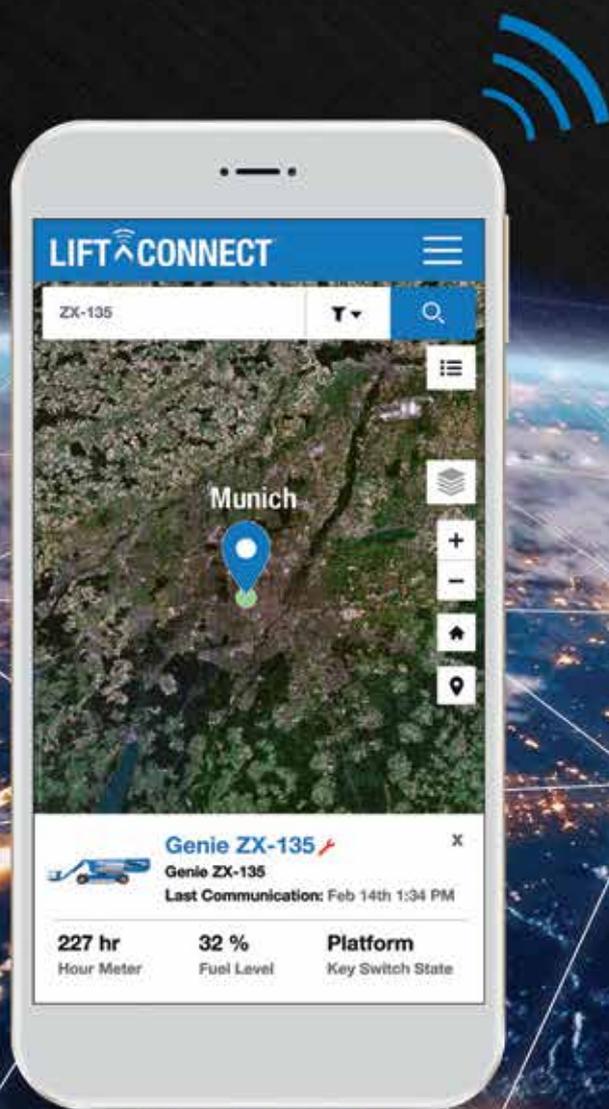
First time exhibitor Xenith Heights will show a new range of safety harnesses, as well as the Aresta range of height safety kits ideal for the working at height industry.



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Bauma lives up to expectations

C&A

Bauma 2019



Jekko SPX532 spider crane

Nothing prepares you for Bauma week! The sheer scale of the exhibition still amazes even veteran show goers. This year was the biggest yet with 614,000 square metres of exhibition area attracting more than 620,000 visitors - around 40,000 more than in 2016. There were more than 3,700 exhibitors most of them with new products, innovations and technology.

While the vast majority of visitors came from Germany, Austria and Switzerland, around 33 percent came from other countries including Italy, France, the Netherlands, Russia, Sweden, the Czech Republic, Poland and the UK. There was also a significant increase in visitors from China, Australia and Japan with more than 5,500 visitors from China alone.

The cranes, access and telehandler sectors were well represented with

only a few major manufacturers deciding not to attend. As such, the number of new and interesting products runs to far more than we can cover in this review. However we will also cover most of the new products over the coming months in specific features - tower cranes and self-propelled booms are included in this issue. As a result the following are just some of the highlights - apologies in advance for those we have missed.



Ruthmann 30m TB300



Sany 100t SCE1000A



Valla V70R



Snorkel SR1442 and 1745 telehandlers



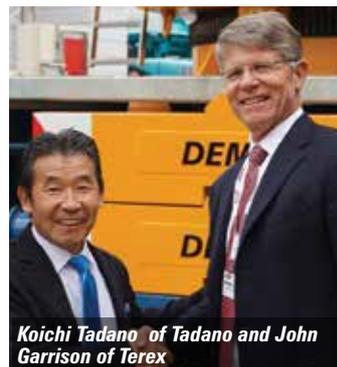
Ferrari 9661C - 66 tonne metre class with 360 degree continuous slew



Airman indoor tracked scissor



New Kramer telehandlers



Koichi Tadano of Tadano and John Garrison of Terex



Demag is to launch a 160t telecrawler



Ormig 30 tonne electric 30E



Grove GMK3060L with 48 metre boom and Maxbase variable outrigger setup



France Elevateur 121Fce electric cut out van



Multitel MZ250



Teupen Leo 35 T plus



Zoomlion ZS1212DC and ZS1012DC scissors



Ruthmann electric Ampero TB 250 E



Sunward had a range of telescopic crawlers including this 10t SWTC10



800t Liebherr LR 1800-1



Palfinger 13.72 metre 46kV insulated boom ETC 40 1 H with 8.94 metres outreach



Hidrokon HK24TPA truck mounted lift



New Palazzani 37 metre new XTJ37+



TGT Robby 900 S small tracked crane with Palfinger boom



Grove GMK4090 - 90 tonne four axle



Fraco and Torgar stand



Moog MBI 70 LKW underbridge unit mounted on a 6.2 tonne chassis with a 7m platform capable of lowering 6.2m



Turkish manufacturer MPG showed its 450 t/m loader crane on a seven axle carrier



Herkules TD 40305 EK specialist telehandler



CTE prototype Traccess 200



Hoefflon's new 8 tonne C30



Manitou MHT 12330



Bocker Junior HD 24 tracked furniture lift



Tadano ATF 100-4.1



Klubb's Unimog mounted Xtenso 3



Fassi F345RB 2.26 xe dynamic



250

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Hinowa bi-energy LL20.10 mk2 - with diesel engine and lithium power pack



Zoomlion 130t ZCC1300



Airo A17 JE



Genie Z-45 FE axle with E drive



Dinolift Dino 220RXT articulated boom with outriggers



Bravi Sprint and Spin-Go



Versalift VDTL-46-155-FZ



PREVIEW: Snorkel SL26E LITHIUM-ION, 4-WHEEL DRIVE ELECTRIC SPEED LEVEL
Snorkel - previewed the new SL26E lithium ion Speed Level



Unic URW295-3



Multitel SMX210 spider and MTE 270 truck mount



Marchetti CW 65.40L sold to Jones in the UK by Robert Law of AGD



Palfinger P250 AJTK spider lift



The new 42m Easylift R420



Manitou MT 625 full Electric



Platform Basket world premiere of the 20.95 spider lift



Liebherr LTM 1100.1



Skyjack SJ9253RT - one of four new scissors



Oil&Steel 20 metre Scorpion 2013 E-Power electric truck mount



Terex Demag CC2800-2



Effer Icon 105 and 120 loader cranes



The new Palfinger PCC tracked loader crane



XCMG XCA130 E - 130 tonne five axle AT with 61.5m boom and 91.5m with jib



Versalift LT-90-TB on a Fiat Doblo chassis



Kato 100 tonne KA-1000RX with 51.3 metre main boom



PM 9.5SP and 11SP - world premiere



Liebherr - inside the new cab



Spierings Series Hybrid Powerpack concept for the upper engine of the SK597-AT4 and SK1265-AT6



Genie GS-4655

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Raimondi LR273 sold to Bennetts Cranes in the UK



HTS Eco Skate e-Motion 40



Sany 90t SRC900C Rough Terrain crane



Snorkel TM12E and TM16E



ELS stand



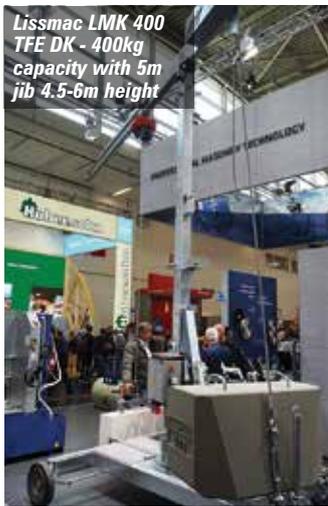
Dieci new cab design



Kobelco CKE3000G hand over to UK-based SECH



HSC cranes - NRC's new SCX2800A-3



Lissmac LMK 400 TFE DK - 400kg capacity with 5m jib 4.5-6m height



Platform Basket 43m Spider 43T - its largest to date



Skyjack remote self diagnostic system



Hyva Edge loader cranes



Giant GT5048 concept



Niftylift stand



Dingli stand



JLG Power Towers Duo



Jekko MPK06



Faresin 6.26 Full Electric cabin



Cummins Stage V engines



Potain MDT 809



Gruniverpal Minidrel 75 TRS



Cela DT Van



Tadano ATF 120-5.1



KTEC Multi-carrier and the KMC 355F with crane attachment



Magni showed new 28 and 30 metre articulated booms as well as the 24 metre TH 5.24 fixed telehandler with side shift



Weldex 150 tonne HSC SCX1500A-3 crane with owner Dougie McGilvray



Faymonville 650 tonne metre blade lifter



650/700t Liebherr LTM 1650.1



Klubb K21B on a Jinbei Granse van

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European partner for CM Labs



Canadian Virtual Reality and training simulator specialist CM Labs has agreed a partnership with Europe's Antycip Simulation to provide training simulators in



select European countries. Antycip's offices in the UK, France and Italy will provide CM Labs simulators, set-up, training and support to clients in Austria, Belgium, Denmark, Finland, Germany, Iceland, Luxembourg, The Netherlands, Norway, Spain, Sweden and Switzerland.

Patrice Commune of CM Labs said: "This is an exciting partnership for both companies. It combines CM Labs' innovative training solutions with Antycip's more than two decades of leadership in providing simulation software across Europe."

CIS updates training course

US-based crane and rigging training company Crane Industry Services has launched an updated Lift Director training course. Designed to be more interactive, the three-day course features case studies and an emphasis on understanding load charts. Although there is no prerequisite, the class is best suited to someone with a good working knowledge of cranes and of rigging.

President Cliff Dickinson said: "A lift director is the person responsible at the moment of the lift. On small lifts, there can be overlapping responsibilities, and some people may wear more than one hat. For example, the crane operator may also be the lift director. But in larger companies there is the lift director, project manager, the site supervisor and the general contractor's representative - they are all individual jobs. A lift director, regardless of size or structure of the organisation, must have knowledge about cranes and rigging, setup and operation. We review and analyse load charts, rigging and angles, load weights and swing dynamics etc."

India live line event

US-based crane and aerial lift manufacturer Altec and Indian distribution and rental company Mtandt hosted India's first live line symposium at Pragati Maidan in New Delhi.

Held in conjunction with the Gridtech International Exhibition and Conference, the event hosted experts from India's electric utility sector to discuss safe live line work practices and the benefits of using insulated aerial work platforms for live line work.



Altec AMT



Representatives at the symposium

£182k for schoolboy scaffold fall

UK contractor Westdale Services has been fined £160,000 plus costs of £22,310, following an incident in which a 12 year old boy slipped from a scaffold ladder, falling 10 metres to the ground. In May 2017, two boys were able to climb the ladders within scaffold erected by Westdale in Cwmbran, South Wales.

One of them climbed the highest ladder to a height of around 10 metres, but it slipped causing him to lose his balance and fall to the ground, resulting in life changing injuries requiring multiple operations. He now has no bladder or bowel control and is only able to walk short distances. An investigation found the security arrangements for preventing access to the scaffolding - especially by children from the nearby school - were inadequate.

£51,000 for telehandler injuries

UK potato processing company Braegate Produce has been fined £50,000 plus costs of £962 after employee Colin Smith, 62, was struck by a telehandler load in January 2018. Smith was walking across the yard to the maintenance workshop when he was struck by three potato boxes loaded on the forks of a telehandler operated by another employee. The impact knocked him to the ground and fractured his left leg.

An investigation found the company had insufficient measures to protect pedestrians from vehicle traffic and that a protected walkway was not provided on a key route between the production sheds and the workshops. A large number of boxes had also been stored in the yard reducing available operating space and forcing staff to walk further into the transport area. The company also failed to ensure forklift truck and telehandler operators were aware of site rules when moving potato boxes.

Who trained him then?

Spotted by a reader preparing to tee off on the third tee at La Torre golf resort in Murcia, Spain, a boom lift being used by two men working on one of the buildings of the five star resort. Rather than use the boom lift as intended - even though it had an articulated jib - they climbed out onto a narrow tile ledge without harnesses or anything to prevent them stepping back and falling from the ledge.





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EN12999 - Draft for Public Comment

The latest revision to EN12999, the European product design standard for loader cranes, has recently been released as a Draft for Public Comment.

With the standard due for publication in 2020, the draft contains amendments covering a range of areas, including safety systems on remote controls, stability testing, and improved mapping against the Essential Health and Safety Requirements of the Machinery Directive.

ALLMI technical manager, Keith Silvester said: 'We recently offered all members a copy of the new draft and the level of engagement has been extremely positive. The ALLMI Technical Standards Committee will be considering all comments from members prior to providing ALLMI's feedback to BSI. It will also subsequently review feedback received from across Europe in advance of the WG18 (the CEN Working Group responsible for the standard's development) comments resolution meeting in late June, at which an ALLMI delegate will represent the UK's interests.'

"We would encourage all those involved in the industry to review this draft, as it is a great opportunity to comment on, and possibly influence, a standard that directly affects the design of loader cranes throughout the UK and beyond."

For a copy of the Draft Standard, please contact ALLMI.

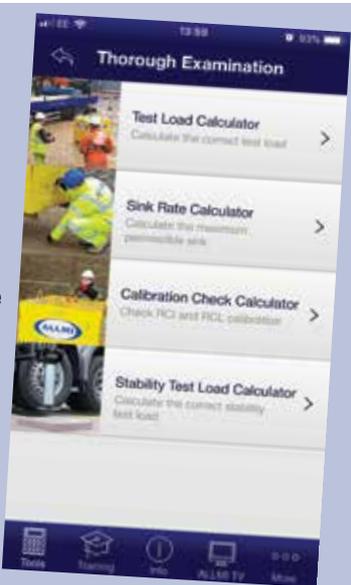


New App tools - final beta testing

ALLMI is undertaking the final beta testing phase for the latest update to its Smartphone App. Developments include tools for Thorough Examiners facilitating overload test, sink rate and stability test load calculations, as well as RCI/RCL calibration. Another Examiner tool covering safety system requirements will form part of a further update in quarter three of this year, in addition to one for operators covering pre-use checks.

Released in September 2017, the ALLMI Smartphone App continues to be an industry hit, with the Association experiencing a large number of downloads. Free of charge and compatible with iOS and Android operating systems, the App contains an array of features that benefit all those involved with lorry loaders, including good practice/safe use videos and documents, training provider/member directories, and a range of calculator tools designed to assist users carrying out various industry roles.

Please visit the Apple and Google Play stores to download the App and look out for further updates on these latest developments.



Course updates 2019

The association's busy start to the year continues, with a raft of updates being made to a range of ALLMI courses.

ALLMI chief executive, Tom Wakefield said: "We are currently updating our material for Instructor, Appointed Person, Crane Supervisor, and Slinger/Signaller courses, with all projects rapidly taking shape. We experienced a significant increase in demand for these training programmes during our last financial year, reflecting the credibility and quality of the ALLMI scheme. However, we never rest on our laurels and always look to further improve course content, taking on board candidate feedback, as well as the needs of an industry which is rapidly evolving."

"In particular, the Appointed Person and Crane Supervisor updates are nearing completion, with certain material in the process of being trialled and feedback being gathered, which is an invaluable part of the development process. We look forward to fully launching these revised courses in the coming months and, as always, would encourage industry stakeholders to contact us, should they have comments or views in this regard."

Look out for updates on course developments in the next issue of ALLMI Focus. For information on ALLMI training, please visit www.allmi.com.



Bangor University affiliation

ALLMI has recently formed links with Bangor University, to facilitate contact between engineering students and the association's member companies.

Speaking of the move, ALLMI chairman, Mark Rigby said: "Bangor University has a long tradition of academic excellence, as well as a first rate engineering school, making it the ideal educational institution for ALLMI to partner with. The lorry loader industry has a huge amount to offer young engineering talent and so we are delighted to forge this relationship, with the aim of playing a key role in creating internship and post-graduate employment opportunities to the benefit of all concerned. We look forward to bringing further news as this initiative progresses, and would be pleased to hear from industry representatives requiring further information, as well as colleges and universities looking to develop similar affiliations."



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

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CPA Stars of the Future event

The Construction Plant-hire Association (CPA) is hosting its Stars of the Future awards ceremony on Wednesday 26th June to recognise and reward some of the industry's brightest and most promising talent. This is the seventh consecutive year that the CPA has hosted the ceremony, which will be held at the Heart of England Conference and Events Centre near Coventry. This year's event is being held in partnership with main sponsor A-Plant. Traditionally, Stars of the Future has rewarded mechanic apprentices, but the scope of the event has been widened even further this year to also include awards for equipment operators and lifting technician apprentices and trainees.

CPA chief executive Kevin Minton said: "This is a landmark year for the event, and it recognises the introduction of recently introduced plant-related Trailblazer apprenticeships for operators and lifting technicians. Just with the mechanic apprentice awards alone, around 700 plant apprentices will be eligible to enter from companies large and small. Stars of the Future is a brilliant event providing the opportunity to acknowledge and congratulate some of the industry's most promising apprentices and trainees, and it is highly regarded by employers, participating colleges and the individuals themselves. It has been fantastic to see the progress that some of the former

winners have made in their careers since winning a CPA Stars of the Future award."

Apprentices are assessed throughout the academic year on their work in college and their work environment, and the enthusiasm and commitment they bring to learning. There are separate prize schemes for Level 2 and Level 3 apprentices, at both regional and national level. The awards are intended to recognise and reward outstanding apprentices who not only bring ability and commitment to their learning and their work, but also possess those extra capabilities which mark them out.

Snap-on is once again the tool kit sponsor and will be providing kits for the winners.

Nominations invited for CPA Lifting Technician Star of the Future

If you employ a trainee or apprentice lifting technician who you believe is a star of the future, you can put them forward for the CPA Lifting Technician Star of the Future award. This accolade is being introduced in recognition of the recent availability of the lifting technician trailblazer apprenticeship. It is open to any trainee or apprentice whose main role, is operating a crane and undertakes slinging and signalling duties.

The following eligibility criteria is applicable to this award. The nominee must:



- Be employed as a crane operator on either a tower, crawler or mobile crane
- Be on a recognised apprenticeship or formal training programme of at least 18 months duration
- Be working towards, or achieved a relevant crane operating NVQ, SVQ or other form of formal occupational competence-based qualification
- Be following a formal training programme with appropriate off the job training
- Be undertaking crane operations with a mobile, tower or crawler crane which forms a major element of the apprenticeship or training programme, supplemented with slinging and signalling activities

There will be one national winner for this category with a suitable and fitting prize given to the

successful nominee. Nominations close on the 22nd May, the Lifting Technician application forms can be downloaded at <https://www.cpa.uk.net/starsdownloads/>

The form is designed for both the employer and training organisation to provide an account of the apprentice or trainee during the training period, including work experience. The nominee may also provide a supporting statement. It will be used by the judges to identify and reward the most suitable apprentice or trainee for the various awards being made by the sector through the CPA Stars of the Future initiative.

Forms for the new CPA Plant Operator Star of the Future award, can also be downloaded from the above address. All entries will be judged by a judging panel and each winner will be announced at the event.



CPA 2019 Conference

The CPA Conference will take place on Thursday 17th October at the Heart of England Conference and Events Centre in Fillongley near Coventry. The one day event organised by the CPA and sponsor Datatag will have the theme 'Planting Resilience - Building for the Future', speakers will discuss some of the construction industry's most current and topical issues relating to how companies can deal with and overcome adversity, both now and in the future.



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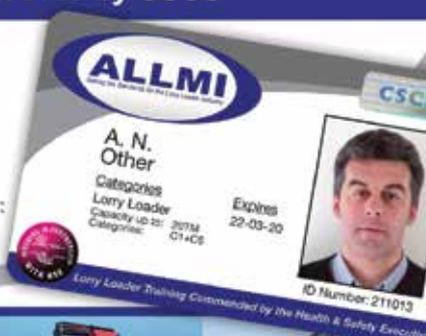
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AIF national work at height conference

The Access Industry Forum (AIF) has announced that its national 'Working at Height: Access for Life' conference and exhibition will take place on Thursday, 14th November, at the AJ Bell Stadium, Barton-upon-Irwell, Salford.



From designing for access and the role of virtual reality to mental health awareness and managing risk, this unique event - to which PASMA will be a major contributor - will bring together a solid line-up of expert speakers to address the issues and topics set to shape the future of work at height.

Speakers include:

- Andy Gay, chief inspector of construction at the HSE.
- Gordon Maddan, assistant director, Office of Product Safety & Standards.
- Alan Burge, façade & maintenance leader, Arup.
- Steffan Groch, solicitor and chairman of the Health & Safety Lawyers' Association.
- Dr Karen McDonnell, occupational health & safety policy adviser, Royal Society for the Prevention of Accidents.
- Alison Thewliss MP, chairman of the All Party Parliamentary Group on Working at Height.
- Paul Glaze, commercial manager, Hire Association Europe.
- Chris Debrick, project manager, Transport for London.
- Brian Parker, business development manager, AFI-Uplift.
- Tom Price, senior farm safety adviser, National Farmers' Union.
- Jason Anker, Paul Blanchard and Dylan Skelhorn, ambassadors for the No Falls Foundation.

The conference will be chaired by Dr Shaun Lundy, chartered safety and health practitioner, chartered building engineer, visiting scholar at the University of Greenwich and HSE Myth Buster.

The event is organised and managed by the AIF, the forum for the

principal trade associations and federations involved in work at height. Each organisation represents a different sector of the access industry and fosters and supports codes of good practice, equipment standards, training, education and knowledge.

Members include: Association of Technical Lightning & Access Specialists (ATLAS), British Safety Industry Federation (BSIF), Edge Protection Federation (EPF), Fall Arrest Safety Equipment Training (FASET), International Powered Access Federation (IPAF), Industrial Rope Access Trade Association (IRATA), Ladder Association, National Access & Scaffolding Confederation (NASC), Prefabricated Access Suppliers' And Manufacturers' Association (PASMA), Specialist Access Engineering And Maintenance Association (SAEMA) and the Work at Height Safety Association (WAHSA).

Anyone wanting to register their interest in attending and receiving information in advance of bookings opening, should visit www.accessindustryforum.org.uk/conference.



C&A PASMA focus

No Falls in Swansea

The South Wales Safety Groups Alliance annual conference took place on 3rd April at the Liberty Stadium in Swansea. 'Preventing injury and ill health at work' attracted over 100 delegates and included a presentation by Hannah Williams on behalf the No Falls Foundation - the national charity supported by PASMA - highlighting the risks associated with working at height and the importance of industry standards and guidance.

The keynote address was delivered by Martin Temple, chairman of the HSE board, and was followed by presentations from Louise Hosking of IOSH, Gavin Thomas of the Mid and West Wales Fire and Rescue Service, and Peter Pery of Dwr Cymru Welsh Water. The conference was chaired by the HSE's head of field operations, Wales and the Marches.

The South and West Wales Safety Group is one of more than 70 occupational safety groups in the UK affiliated to the Royal Society for the Prevention of Accidents and has over 90 member organisations, from small businesses to large industrial enterprises, together with a range of larger and public sector organisations.



More diary dates

Other events at which PASMA will be represented include:

- Safety in Construction, Derby Arena, Tuesday, 25th June.
- WWT Working Well at Height, Bransford, Wednesday, 19th June.
- London Work at Height Seminar, The Guildhall, London, Friday, 12th July.
- WWT Working Well at Height, Kettering, Thursday, 12th September
- Health & Safety North, Manchester, 8-9th October.

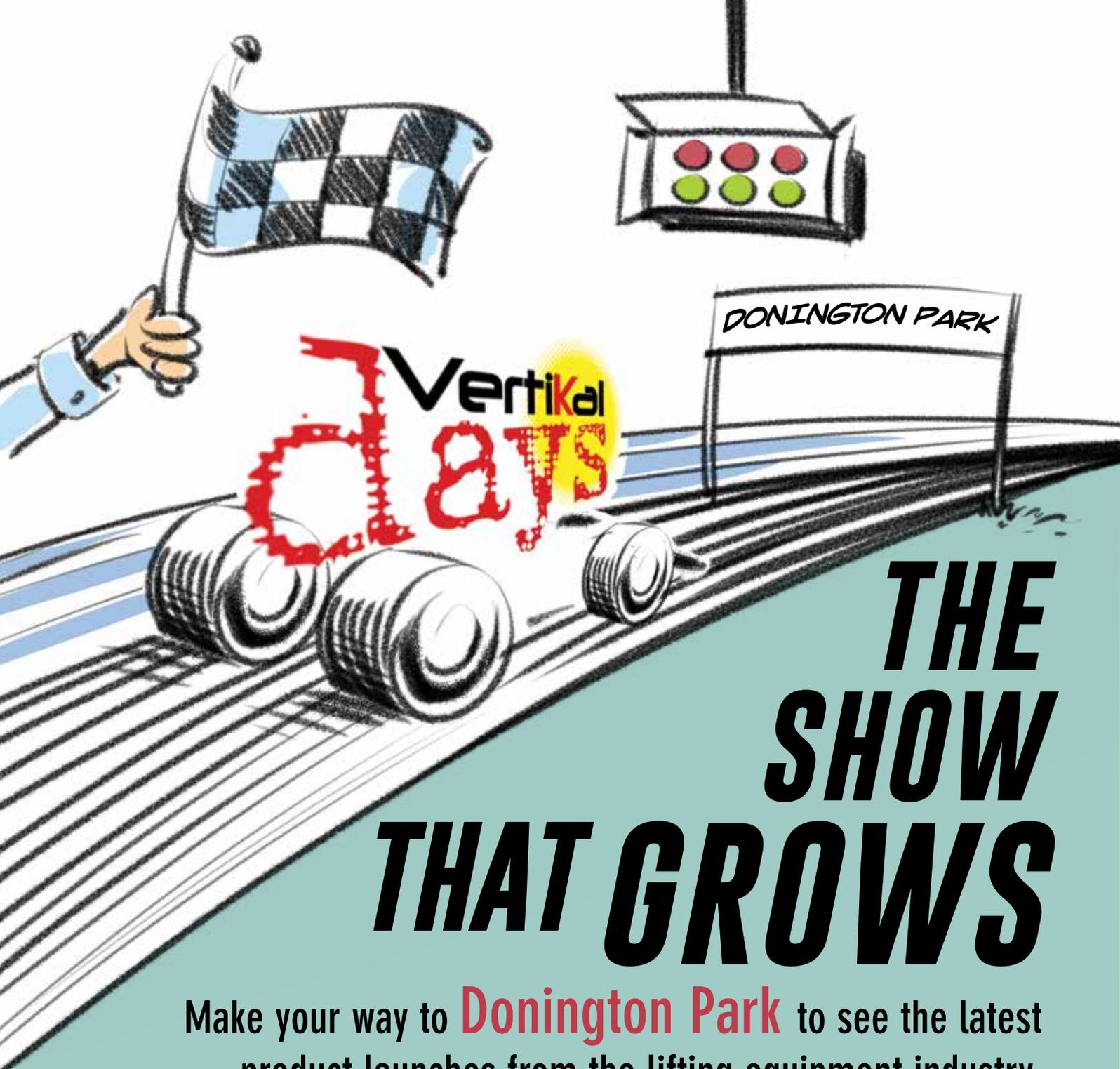
Additional dates include the PASMA Symposium in Qatar on the first of May and A-OSH EXPO 2019 on 14th May at the Gallagher Convention Centre, Johannesburg, South Africa.

One stop shop

The PASMA shop offers a wide range of safety related products for use on site and in the workplace. They include the following items:



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 and www.nofallsfoundation.org



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IPAF 2019 Street Smart campaign

The International Powered Access Federation (IPAF) has launched its Street Smart safety campaign, outlining the dangers of using powered access equipment on or adjacent to roads. With the risk of the platform being struck by a passing vehicle such as bus or truck, planning is needed in order to operate safely.

Chief executive Tim Whiteman said: "Work platforms are designed to work at height safely in most environments, including on roads and public places. However, being hit by a passing vehicle while operating one is a leading cause of serious injury or death, according to our accident analysis."

Key points of the guidance include: Plan ahead - assess risk; develop and use a traffic management scheme. Be visible - wear hi-vis PPE to position cones/signs. Ensure vehicles are conspicuous (flashing beacons/rear chevrons) and work areas well lit. Manage traffic - Use temporary traffic lights or close roads to separate the working area. Use signs and cones to warn oncoming vehicles. Implement an exclusion zone - segregate the working area from passing vehicles. Position the work platform so it does not overhang into traffic. Load and unload safely - in a well lit area, away from traffic or obstructions. When unloading next to a road, ensure it is segregated from traffic.

For more information on IPAF safety campaigns see www.ipaf.org/safe



Exhibitions safety guidelines published

IPAF has issued special guidance for loading/unloading, setting up and demonstrating powered access equipment at exhibitions and trade fairs.

The guidance covers safe operation, delivery of machines, traffic and pedestrian management, setup and dismantling, weather conditions, operation during show hours, outdoor displays, use of prototypes and non certified platforms, demonstration zones, authorised operators and the use of appropriate PPE and fall protection equipment.

The guidance is available to view or download free from IPAF's website at www.ipaf.org/resources



IPAF 2018 - 1,335 members, 66 countries, 775,000 PAL Cards

2018 was a positive year for IPAF with 1,335 members across 66 territories, while 165,787 people successfully completed an IPAF training course, taking the total number of valid PAL Cards to more than 775,000.

Further details can be found in IPAF's 2018 Annual Report, available in English, Chinese, Dutch, French, German, Italian, Portuguese and Spanish and is free to download from www.ipaf.org/annual-report



Scotland regional meeting

IPAF's next regional meeting will be held on May 22nd at the Doubletree Hilton hotel, Strathclyde, Glasgow at 18:30. Hosted by Carl Evans of HSS the meeting will include presentations on Mental Health in the Workplace, Addressing the skills gap, an overview of pre-delivery inspections and thorough examinations, along with updates on IPAF developments and a Q&A session followed by a buffet and drinks.

Costs are £10 a head for IPAF members or £15 for non members.

More information on www.ipaf.org/events

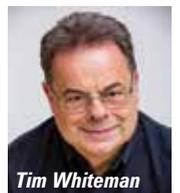
Irish Council reconstituted

IPAF's Irish Council has been reconstituted following a meeting and new elections in Dublin on 11th April. Peter O'Riordan of Loxam was elected chairman, while David Meeke of Highway Plant becomes vice chairman, with 11 other council members elected to represent an equal split of IPAF rental and training company members. The Council is open to IPAF members in both Northern Ireland and the Republic.

UK and Ireland general market manager Richard Whiting said: "Thanks must go to outgoing chairman Julie Smyth for her fantastic work over a number of years. A new Council has been elected to continue her hard work."

IPAF wins injunction

IPAF has won an injunction against former member Capital Equipment Services Ltd (CESL) of Chennai, India, that had attempted to copy its accredited training programme and pass it off as its own.



Tim Whiteman

The High Court of Madras found CESL to be in breach of copyright and ordered it to desist circulating the copied course material, including to the Aerial Platform Association of India, which was also named in the injunction.

IPAF chief executive Tim Whiteman said: "We welcome this injunction, which protects the hard work and co-operation of IPAF members. We are pleased the Indian judicial system found decisively in IPAF's favour, and that this attempted fraudulent activity has been stopped in its tracks. Use of the IPAF training programme is open to any member that meets the relevant quality standards and observe its code of conduct. The CESL has since been expelled."

Europlatform 2019

IPAF's annual conference Europlatform, will be held at the Le Negresco hotel in Nice, France, on 3rd October and is now open for booking, with the early bird rate available until 3rd September. visit www.europlatform.info

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Sennebogen 613E

The Sennebogen 613E is a mobile telescopic crane with a 16 tonne maximum capacity and 24 metre maximum hook height. It has been modelled in 1:50 scale by Ros Models and is available in two versions, wheeled mobile or crawler.

The wheeled version has some simple detailing of the transmission underneath, but the wheels and tyres look realistic. The wheels roll easily although they are loose on their mountings with both axles steering a reasonable amount. The outriggers are metal and are decorated with nice chevrons and the jack cylinders are nicely stiff.

The tracked version has very good tracks and they can be posed in the extended operating or retracted transport mode.

Above the chassis both models are essentially the same. The plastic cab has good details including door hinges and small graphics. Inside, the controls are different for the wheeled and tracked versions. The cab elevates although some looseness in the mechanism creates a slight cab tilt.

The superstructure frame is metal with high quality paint and graphics, and the Sennebogen name is embossed at the back. The boom is detailed well,

although large connection rivets spoil the look a little, both at the base end and at the boom head. Metal sheaves are used throughout. The boom raises, but the lift cylinder is a little sticky and the maximum boom angle seems a little less than expected. It telescopes with some stiffness, and each section locks at full extension. The luffing fly jib is a metal part with a nicely modelled luffing cylinder.

The large hook block has one

sheave and the single line hook matches the jib well. The winch is operated with a key. However, the hoist rope is too stiff, so it does not pose well and raising and lowering the hook is problematic.

A separate metal working platform is included, and it is a robust part, which can be levelled to cope with the different boom angles.

These Sennebogen models look good and have some nice details and reasonable functionality. They are available to purchase from the Sennebogen shop for €106.

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

Cranes Etc Model Rating

Packaging (max 10)	7
Detail (max 30)	24
Features (max 20)	14
Quality (max 25)	18
Price (max 15)	11
Overall (max 100)	74%



Luffing fly jibs installed



Wheeled version with outriggers set



Steering wheel in the cab of the wheeled version



Elevating cab



Work platform fitted

Readers

Letters

**Electric power practicalities**

When will it sink in that the current fad of moving to all electric machines is not a practical solution, at least not yet. Can you imagine a couple of hundred machines on site all trying to plug into the mains? Assuming enough sockets were available the resulting power surge would surely kick out the power in the area? I can see site workers searching for an available socket unplugging one of the machines and swapping theirs.

Gearing up for electric cars, electric buses, electric telehandlers and electric platforms will need a massive infrastructure investment which will cause as much carbon and emissions as the diesels they replace. And what about all the lithium mining and then recycling them?

This needs some thought and a hell of a lot of planning before such a thing can be a reality. Perhaps you ought to address an article on this subject before you do more on how fantastic all electric machines are!

Mike

'Mike' makes some interesting and valid points, which don't just apply to platforms or telehandler. If everyone suddenly adopted an electric car we would truly have a problem. However we do need to be moving towards zero emissions. Perhaps the solution will be even cleaner engines or carbon capture technology, all of which still seems far off. There is also the point of noise, utility workers that have used the latest hybrid truck mounts - regular diesel powered chassis and battery electric superstructures that recharge when travelling - speak highly of the fact that they can communicate with the team on the ground and/or work in residential areas without causing so much disturbance.

We will certainly consider coverage of on site practicalities of recharging large numbers of machines overnight.

Ed

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

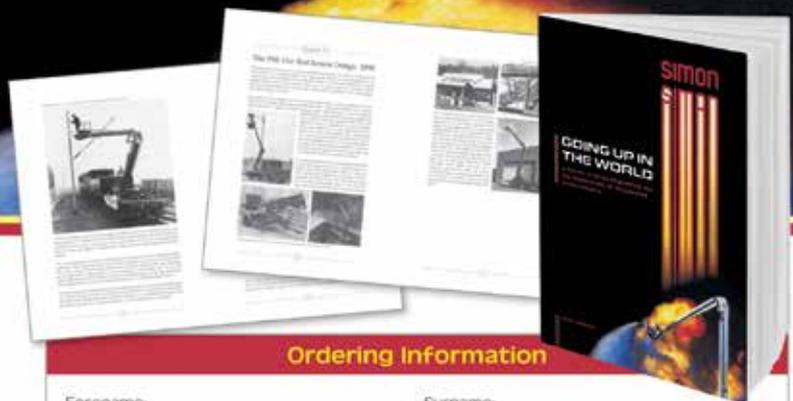
Ashworth was a keen engineer and from an early age found himself in at the very start of the modern powered access industry.

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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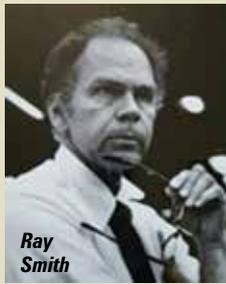
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I first met Ray Smith, owner of Smith Tool Co. just before Christmas 1975 at a time when I was busy promoting the introduction of aerial platforms into our plant hire business at what was then known as Elstree Plant, a wholly owned subsidiary of the John Laing Construction Group. At that time we had already built up a substantial fleet of truck mounted platforms offering working heights from eight to 45 metres (the only such machine in Europe at the time).



Ray Smith

The first self-propelled booms were being produced in the USA where a number of scissor lift manufacturers were also emerging, with products that left much to be desired in terms of basic stability, safety and reliability. I had heard about a company in Waukegan, north of Chicago, owned by an engineer with a reputation for original thinking in design terms, who had launched a range of scissor lifts which seemed to have significant sales appeal. I contacted the company expressing interest in the product line and my call was followed up by David Callahan, then representing the company along with an American supplier of high quality antique furniture reproductions selected from collections in stately homes in England.

That gave me confidence that the Scissor Lifts were likely to be rather better than others on the market at that time. I soon realised that the Smith Tool products would sell in the UK and negotiated to become its European distributor and agreed that we would place substantial numbers in our own rental fleet.

Ray Smith flew to London from Stockholm on December 18th, to sign the contract, before flying back to Chicago for Christmas later that day. That meeting was the start of a very long personal friendship and enabled my company to widen the range of platforms available to rent or sell.

Planning a trip for me to visit Ray's factory at Waukegan, David Callahan warned me that Ray had just purchased a new BMW and would not allow anyone to smoke in it, knowing that I was an avid pipe smoker and anxious to avoid a diplomatic incident, during the ride back from O'Hare Airport. Eager to test Ray's confidence, as soon as we pulled onto the freeway, I pulled out my pipe and to my surprise, he did not say a word, even when I pulled out my lighter, he clearly was not going to discourage me. So, a little disappointed, I put my pipe back in my pocket and it was not until we reached his home 45 minutes later, that he thanked me for not smoking in his car. I told him then that David Callahan had tipped me off and I only filled the pipe to test his reaction!

Ray was one of those people whose intense respect for others, his code of behaviour and conversation made a deep impression on all who met and knew him. His enthusiasm for his industry and his skill in putting his advanced ideas onto paper was only surpassed by his ability to turn his drawings into three dimensional products almost overnight at times.

There were occasions when he forgot that when a factory produces a complicated machine on a production line, it is important for the buyer that units in the same delivery have identical componentry. I lost count of the number of times that one of our service engineers went out to replace, a faulty part, only to find that the newer machine had a different component to the unit with the previous serial number, with no hint of modification having been made.

That aside, Ray designed and built some remarkable machines. For example, after visiting British Airways at Heathrow he came up with a large scissor lift on which the scissor arms telescoped as the scissor mechanism unfolded, thus speeding up cargo loading and offering greater lift capacity. He built a machine for the Sellafield nuclear power station in Cumbria which were regularly replaced as their radioactivity became too high to be used. His mind never stopped thinking of new ways to solve access problems and we mounted two of his modified scissors on three tonne Ford trucks to create mobile foam canons for the BP oil terminal in Kent when their fixed monitors were condemned by the HSE. These mobile firefighting vehicles added greatly to the safety at an oil storage farm where millions of gallons of flammable liquid were stored.

Ray was a wonderful family man and adored his wife Laurie and daughters Dana, Leslie and Maggi and son Bo, who was taken from the family so sadly when he suffered a stroke one afternoon while posting the company's mail at the local post office.

Our friendship grew and Ray used to visit England and Scotland with the

church choir from Lake Forest, performing in various Cathedrals for several years, he also visited us on our farm in Hertfordshire, usually just in time to help with the haymaking. As he became older the timing of these visits seemed to ensure that the hay was safely gathered in before he joined us!

Modesty was another of Ray's characteristics. Long ago I learned that he had been a fighter pilot in World War II. He had never mentioned it, but when I learnt about this and questioned him, he really did not want to talk about his experiences after being shot down in German occupied France in 1945. He was flying an Army Air Force P47 Thunderbolt as a second lieutenant in the 358th Fighter Group and spent five months in a prisoner of war camp. He never showed any grudges against his German captors.

On the 1st July 1977 Smith Tool were the 19th company to join the IWPA (International Work Platform Association) and joined IPAF when it was created in the merger with IFHPM 1983.

My wife Ruth and I really enjoyed Ray and Laurie's company and were so sad when our planned stay with them after our marriage in 1991 had to be cancelled due to Laurie being too sick. Once again Ray, despite his own problems arranged to borrow a friend's house for us to stay in for a week, complete with maid and the use of her car.

Ray and his family were always fun to be with and having met so many of his friends I feel privileged to have known him for so long and to have shared so many memorable times with his family and friends.

The use of powered access equipment exploded in the 1980s and competition grew equally fast in the USA putting smaller companies under pressure from the 'big boys'. I introduced Ray to John Grove, whose success with boom lifts was encouraging him to look at adding scissor and truck mounted lifts. John approached Ray to buy his company but Ray, a proud man declined the offer. Sadly as the recession bit in the USA Smith Tool was hit hard and never recovered.

It was so appropriate that Ray received the IPAF Lifetime Achievement Award in 2015. Better late than never!

Many who knew Ray and his family will mourn his death but at the same time will thank God for leaving him with us for 95 years, so many of them packed with adventure, wisdom, love and fun. To his large and widespread family we send our sincere sympathy and share your loss of a great and good man. May he rest in peace.

Paul Adorian

30/04/2019



Ray Smith with his Lifetime Achievement Award

Dear Leigh,

I worked with Ray back in the early 70's when I was just getting started. As one of the 'Grandfathers' of the US-based aerial work platform scissor lift industry, Ray was instrumental in developing the first 'Self Loading' scissor lift however, in my mind his biggest accomplishment was the Smith 'Moonbuggy', designed and destined for the Alaskan pipeline. Two unique features of the Moonbuggy, was its platform mounted 'Steering Wheel' to steer the machine, plus a tag axle option providing six wheel drive, something that was unheard of in those days!

Ray also had a local rental fleet called: 'Safety High-Reach'. In my early years, I was sent to help run it.

This creative genius is now home with his son, Bo - the designer and developer of the Phoenix Scissor Lift - who died way to early and was sorely missed by Ray.

The industry Giants continue to pass away ... but it was a pleasure to know him.

Craig Ihde

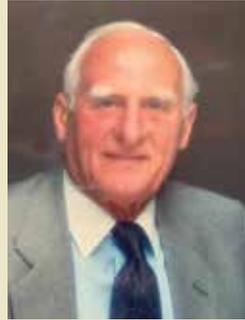
Eddie Brown 1926-2019

Eddie Brown, a senior manager responsible for all crane operations with Tarmac Construction in the mid 1970s and 1980s passed away on April 13th at the age of 93.

He was responsible for both mobile and tower cranes, becoming a well-known and respected figure in the crane industry. He had a particular passion for tower cranes and later became involved with training as a founder member of the CITB.

Brown's first encounter with cranes came when he left school at 14 to work with tunnelling contractor Kinnear Moodie where he worked on steam cranes and specialist concrete mixers. He left to do his National Service in 1945 serving with the army in Egypt and working on aircraft in the Far East, a job he loved.

On returning to civilian life he resumed his tunnel construction work and was involved with a number of major projects, including Oxford Circus underground Station. He joined Mitchell Construction following its acquisition of Kinnear Moodie which was itself acquired by Tarmac in 1974. In his



Eddie Brown

time he worked on a number of major projects, including the Cairo Waste Water/sewers project in the 1980s.

Throughout his life he was a firm believer in keeping fit and eating healthily and was involved with setting up one of the first gyms in Staines. A particular passion was skiing which he kept up until he was diagnosed with bowel cancer at the age of 89. Although he managed to beat cancer, he sadly never skied again.

He also had a passion for fast and exotic cars avoiding company cars throughout his career. He loved working on his cars and insisted that both his son and daughter were able to strip and rebuild an engine before he would teach them to drive. He kept in touch with many of his crane industry friends until the end. He leaves behind his wife of 70 years, a son and a daughter.

Chandrakant Sanghvi

1954 -2019

Chandrakant Sanghvi, chief executive of Indian heavy lifting company Sanghvi Movers passed away on Monday,

April 8th, following a battle with cancer, he was 65.

Sanghvi was born in Pune, India, gaining an engineering degree in metallurgy from the College of Engineering, Pune, followed by a masters degree in chemical engineering from Columbia University in the USA.

He established Sanghvi Movers in 1989, when he purchased his first crane, a new 70 tonne Tadano TG 700E truck crane. He took the company public in 1995 and ordered a number of new cranes with the proceeds, including a Demag CC 2400 crawler crane. He made a daring breakthrough in 1998 when he shipped 36 cranes from Singapore to India for a contract at the massive Reliance Industries petrochemical plant being built in Jamnagar, Gujarat. The company he leaves operates from 17 locations with 1,500 employees.

He is survived by wife Mina, son Rishi - who has taken over the running of the business alongside joint managing director and chief financial officer Sham Kajale - and two daughters, Ruchi and Niyoshi.



Chandrakant Sanghvi

Ron Jackson 1951 -2019

Access industry veteran Ron Jackson passed away suddenly on Tuesday 19th March, just prior to his 68th birthday, following a period of illness.

He retired from JLG at the end of 2015 after 35 years with the company, having joined the company from the fork truck industry in 1981, initially as a driver/demonstrator, later becoming a senior product manager with the company, widely respected for his knowledge, experience and possibly more importantly his patience, consistency and good nature.



Ron Jackson

Karel Huijser of JLG Europe said: "Ron was considered to be instrumental for the development and evolution of JLG's access products and contributed to the growth of our organisation in the EMEA region. Ron led by example through his professionalism and passion for the access equipment industry. Thinking of Ron, we will remember his sense of humour, loyalty and passion and are grateful for so many shared memories. He was in many ways a true gentleman and probably the nicest person I have ever met. We wish to express our condolences to his family, close relatives and friends and hope they can find comfort and strength during this difficult time."

Ron Jackson was true professional and true gentleman - the world has now lost one of the good guys.

Apologies

If you sent us a letter in the past month or so please accept our apologies for not publishing it yet. We have not censored it, but had far too many letters to publish them all this month, even though we have provided extra space. We will aim to carry them in next month's issue.

Whats on?

2019

Vertikal Days 2019

UK/Ireland crane, access and telehandler event.
May 15-16 2019
Donnington Park
Tel: +44 (0) 8448 155900
www.vertikaldays.net



HIRE19

May 19, 2019
Hire and Rental Industry Association annual convention, Melbourne, Australia.
Tel: +61 (0)2 9998 2255
www.hireandrental.com.au



Tabs 2019

German language work at height safety conference.
May 21 2019 Krefeld, Germany
Tel: +49 761 8978660
www.tagung-tabs.eu



Crane Rental Association of Canada Annual Conference

June 5-8, 2019
The annual Canadian crane conference
Winnipeg, MB, Canada
Tel: +1780.790.2722
www.crac-aclg.ca



HCEA annual international convention and show

September 13-15, 2019
Historical/vintage equipment show
Bowling Green, Ohio, USA
Tel: +1 419-352-5616
www.hcea.net



Crane Safety 2019

September 17, UK Crane Safety conference by the Institution of Mechanical Engineers
London, UK
Tel: +44 (0)20 7973 1304
www.imeche.org



JDL Beaune 2019

September 25-27, 2019 French cranes and access exhibition/event
Beaune, France
Tel: +33 (0)1 45 63 68 22
jdlevents.cluster1.easy-hebergement.net/jdl2019



GIS 2019

October 3-5, 2019
The Italian Cranes & Access Show Piacenza, Italy
Tel: +39 010 5704948
www.gisexpo.it



ICUEE - The Demo Exp

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Louisville, Kentucky., USA
www.icuee.com



2020

The ARA Show 2020

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Orlando, Florida, USA
Tel: +1 800 334 2177
www.therentalshow.com



Conexpo 2020

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April 23, 2020
Annual summit and awards dinner.
Dubai UAE.
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www.ipaf.org



Apex 2020

June 9-11, 2020
International powered access trade show
Maastricht, The Netherlands
Tel: +31 (0)547 271 566
www.apexshow.com



Bauma China 2020

November 24-27, 2019
SNIEC Shanghai, China
Tel: +49 (0)89-9492051
www.bauma-china.com



2022

Bauma 2022

April 4 -10th
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Ranger tracked access	www.tracked-access.co.uk
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Ruthmann	www.ruthmann.de
Sinoboom	www.sinoboom.com
Skyjack	www.skyjack.com
Skyking	www.skyking.co.uk
Snorkel	www.snorkelusa.com
Socage	www.socage.it
SUP	www.supelefant.com
TCA Lift	www.tcalift.com
Teupen	www.teupen.com
Turner Access	www.turner-access.co.uk
UTS Sales & Repairs	www.towersandpodiums.co.uk
Versalift distributors (UK)	www.versalift.co.uk

Scaffold Towers

CLM Construction Supplies	www.clm-supplies.com
Eurotowers	www.eurotowers.co.uk
Instant	www.instantupright.com
Lyte Industries	www.lyteladders.co.uk
Planet Platforms	www.planetplatforms.co.uk
Svelt	www.svelt.it
Turner Access	www.turner-access.co.uk
Youngman	www.youngman.com

Mastclimbers & Hoists

Adastra Access	www.adastra-access.co.uk
Alimak-Hek	www.alimakhek.com
Brogan Group	www.brogangroup.com
CLM Construction Supplies	www.clm-supplies.com
GB Access	www.gbaccess.co.uk
GEDA-Dechentreiter	www.geda.de
Klaas	www.utility-equipment.com
SGB	www.sgb.co.uk
LTC Hoists Division	www.ltchoists.co.uk
Safi	www.safi.it

Specialist Scaffolding

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

Platform Rental

1st Access Rentals	www.1staccessrentals.co.uk
2 Cousins Access Limited	www.2cousins.co.uk
AA Access (Specialists)	www.aaaccess.co.uk
ABBA Plant Hire	www.abbaplantire.co.uk
Access Link	www.accesslink.biz
Access Platforms Direct	www.accessplatformsdirect.co.uk
Acrolift	www.acrolift.co.uk
Active Rentals Scotland	www.activerentals.co.uk
Actual Access	www.actualservices.co.uk
Advanced Access Platforms	www.accessplatformsuk.com
Aerial and Handling Services	www.aerialandhandlingservices.com
Aerial Platforms	www.aerialplatformsltd.co.uk
AFI- Uplift	www.afi-uplift.co.uk
A-Plant	www.aplant.com
ASR Access Platforms	www.access-platforms.com
ATP	www.atphire.com
Bluelift	www.bluelift.ie
Drammen Liftutleie AS	www.drammenlift.no
Elevation	www.elevation.net
ES Access Platforms	www.esaccess.co.uk
Facelift	www.facelift.co.uk
Fraco	www.fraco.co.uk
GT Access	www.gtaccess.co.uk
Height for Hire	www.heightforhire.com
High Access Hire	www.highaccesshire.co.uk
Higher access	www.higheraccess.co.uk
Hi-reach	www.hi-reach.co.uk
Hird	www.hird.co.uk
Horizon Platforms	www.horizonplatforms.co.uk
JMS Powered Access	www.jms.co.uk
Lifterz	www.lifterz.co.uk
Loxam Access	www.loxam-access.co.uk
LTC Powered Access	www.ltcpoweredaccess.co.uk
LTC	www.ltcaccess.co.uk
Mainline Access	www.mainline-access.co.uk
Manlift Group - Mid East	www.manliftgroup.com
Manlift Hire	www.manlift.ie
Mays Access Platform Services	www.mapsplatforms.co.uk
Mr Plant Hire	www.mrplantire.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/Hire
North American Rentals	www.bigbooms.com
Peter Douglass Platforms	www.peterdouglass.co.uk
Platform Sales & Hire	www.platformsales.co.uk
Power Platform Services	www.pps.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Readyplant Ltd	www.readyplant.co.uk
Rival	www.rival.com
Sandhurst Access Rental	www.sandhurst-accessrental.co.uk
Trac-Access	www.trac-access.com
United Powered Access	www.upa-uk.com
Universal Platforms	www.universalplatforms.com
Warren Access	www.warrenaccess.co.uk
Wilson Access	www.wilsonaccess.co.uk

Notified Body

Powered Access Certification	www.pac.uk.com
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New & Used Platforms

Access Platform Sales (APS)	www.accessplatforms.co.uk
Advanced Access Platforms	www.aaplatforms.co.uk
AFI Resale	www.afi-resale.co.uk
A.J. Access Platforms	www.accessplatforms.com
Baulift	www.baulift.de
Davis Access	www.davisaccess.co.uk
Facelift	www.facelift.co.uk
Flesch	www.flesch-arbeitsbuehnen.de
Gantic Norway	www.gantic.no
Genie	www.genielift.com
GSR Aerial Platforms UK	http://en.gsrspa.it
GT Access	www.gtaccess.co.uk
Height for Hire	www.heightforhire.com
Hird	www.hird.co.uk
JLG	www.jlgeurope.com
JMS Powered Access	www.jms.co.uk
Kemp Hoogwerkers	www.kemphoogwerkers.nl
Kunze GmbH	www.kunze-buehnen.com
Lavendon Sales	www.lavendonales.com
Leader	www.leader-piatt.it
Liftright Access	www.liftrightaccess.com
Manlift Sales	www.manlift.ie
Mech-Serv (GB)	www.mech-serv.co.uk
Mr Plant Hire	www.mrplantire.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/sales/

North American Rentals	www.bigbooms.com
Rothlehner	www.rothlehner.com
Tracked Access	www.trackedaccess.com
Platform Sales	www.platformsales.co.uk
Promax Access	www.promaxaccess.com
Rapid Platforms	www.rapidplatforms.co.uk
Reachmaster (USA)	www.reachmaster.com
Rival	www.rival.com/used
Turner Access	www.turner-access.co.uk
TVH - Group	www.tvh.com
Universal Platforms	www.universalplatforms.com
Utility Equipment	www.utility-equipment.com
Vertimac	www.vertimac.com
Wilson Access	www.wilsonaccess.co.uk
Workplatform	www.workplatformltd.co.uk

Special/Bespoke Access & Lifting Solutions

Access Platform Sales (APS)	www.iapsgroup.com
GT Lifting Solutions	www.gtliftingltd.co.uk
Ladder Safety Devices	www.laddersafetydevices.co.uk
JMS Powered Access	www.jms.co.uk
Liftright Access	www.liftrightaccess.com
Mantis Access	www.mantisaccess.co.uk
Nationwide Platforms	www.nationwideplatforms.co.uk/Hire
Planet Platforms	www.planetplatforms.co.uk
Platform Sales & Hire	www.platformsales.co.uk
Ranger Equipment	www.spiderlift.co.uk
Warren Access	www.warrenaccess.co.uk/hire
Working At Height Ltd	www.workingatheightltd.com
Workplatform	www.workplatformltd.co.uk

Special & Niche Access

Acrolift	www.acrolift.co.uk
DENKA Narrow	www.rothlehner.com
Easy Reach Scotland	www.easyreachescotland.co.uk
Facelift	www.facelift.co.uk
Height for Hire	www.heightforhire.com
High Access Hire	www.highaccesshire.co.uk
Higher Access	www.higheraccess.co.uk
JMS Powered Access	www.jms.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Smart Platform Rentals	www.smartplatforms.co.uk
Special Equipment	www.special-equipment.eu
Universal Platforms	www.universalplatforms.com
Utility Equipment	www.utility-equipment.com
Wilson Access	www.wilsonaccess.co.uk

Special Lift & Transport Equipment

Arnold Schwerlast GmbH & Co.KG	www.arnold-schwerlast.de
Collett A Sons, UK	www.collett.co.uk
Wagenborg Nedlift, NL	www.wagenborg.com

Heavy Transport/Abnormal Loads

Collett A Sons, UK	www.collett.co.uk
S.A. Smith	www.sa-smith.co.uk

Self-Propelled Modular Transporters

Collett & Sons, UK	www.collett.co.uk
Wagenborg Nedlift, NL	www.wagenborg.com

Telescopic Handler Manufacturers

Dieci Telehandlers Ltd	www.dieci-telehandlers.co.uk
Genie	www.genielift.com
Haulotte	www.haulotte.com
JLG	www.jlgeurope.com
Manitou	www.manitou.com
Merlo	www.merlo.co.uk

New & Used Telehandlers

Dieci Telehandlers	www.dieci.com
GT Lifting Solutions	www.gtlift.co.uk
Industrial Access	www.industrialaccess.ro
Lisman	www.lisman.nl
Rival	www.rival.com/used
TVH Group	www.tvh.com
Vertimac	www.vertimac.com
VHS Vissers Heftruck Service	www.vhsblad.nl
ABBA	www.abbaplantire.co.uk
GT Lifting Solutions	www.gtliftingltd.co.uk
JMS Powered Access	www.jms.co.uk
Mr Plant Hire	www.mrplantire.co.uk
Readyplant Ltd	www.readyplant.co.uk

Site Safety Audits

Access Safety Management	www.accesssafety.co.uk
Alfa Access Services	www.alfa-access-services.com

Industry Associations

ALLMI	www.allmi.com
CICA	www.cica.com.au/
CISRS	www.cisrs.org.uk
CPA	www.cpa.uk.net
EWPA	www.ewpa.com.au
IPAF	www.ipaf.org
NASC	www.nasc.org.uk
OSHA	www.osha.gov
PASMA	www.pasma.co.uk

Crane Manufacturers

Böcker Maschinenwerke	www.boecker.de
Galizia	www.galiziagrupo.com
Grove	www.groveworldwide.com
HCME (Hitachi-Sumitomo)	www.nrcplant.co.uk
Jekko Minicrane	www.jekko.it
JMG	www.jmgcranes.com
Klaas	www.utility-equipment.com
Kobelco	www.kobelcocm-global.com
Liebherr	www.liebherr.com
Linden Comansa	www.comansa.com
Maeda	www.maedaminicran.es.co.uk
Manitowoc	www.manitowoccranes.com
Mantis Cranes	www.mantiscranes.ie
Ormig	www.ormig.co.uk
Potain	www.manitowoccranes.com
Raimondi	www.raimondi.co
Sany	www.sany.com.cn
Sennebogen	www.sennebogen.com
Spiersings	www.spiersingskranen.nl
Tadano	www.tadano.com
Tadano Japan	www.tadano.com
Terex-Demag	www.terex-cranes.com
Unic Cranes	www.unic-cranes.co.uk
Valla	www.valla-cranes.co.uk
Wolffkran	www.wolffkran.de
Zoomlion	www.zoomlioncranes.co.uk

Lorry/Truck Loader Cranes

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

New & Used Cranes

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

Heavy Lifting Equipment

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

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

Crane Hire

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

Mini Crane Hire

A Mini Crane Hire	www.aminicranehire.co.uk
Easy Reach Scotland	www.easyreachscotland.co.uk
Emerson	www.emersoncranes.co.uk
GGR	www.unic-cranes.co.uk
Height for Hire	www.heightforhire.com
Hire Maeda	www.maedaminicranes.co.uk
JT Mini Crane Hire	www.jtminicranes.co.uk
Lift Limited	www.liftminicranehire.co.uk
NRC	www.nrcplant.co.uk
Hird	www.hird.co.uk

Self Erecting Tower Cranes

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

Tower Cranes

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

Heavy Lift Management

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

A1A Software	a1asoftware.com
DWLS	www.dwls.co.uk
HLC Consulting	www.hliconsulting.com

Ancillary Equipment

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

Ritchie Brothers	www.rbauktion.com
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Battery Suppliers & Manufacturers

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

Load Cells & Load Monitoring Systems

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

Control Systems

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

Generator Sales & Rental

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

Insurance

Specialist Insurance	www.cover1.com
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Online Technical Help

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

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

Component Suppliers

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

Parts & Service Suppliers

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

Innovations

Aerial & Handling Services Ltd	www.aerialandhandlingservices.com
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Recruitment

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

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

Replacement Filters

Plant Filters	www.plantfilters.co.uk
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Safety Equipment

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

SMIE

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

Structural Repairs

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

Training Associations & Networks

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

Training Centres & Trainers

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

Safety Training

Atlas Cranes UK	www.atlasgmbh.com
Avon Crane	www.avoncrane.co.uk
Brogan Group	www.brogangroup.com
Davis Access	www.davisaccess.co.uk
Emerson	www.emersontrainingservices.co.uk
Height for Hire	www.heightforhire.com

Training Services

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

Training Simulators

CM Labs	www.cm-labs.com
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Crane Attachments

Kinshofer	www.kinshofer.com
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Wire Rope & Cable

Teufelberger Seil	www.teufelberger.com
TMC Lifting	www.tmc-lifting.com
Casar	www.casar.de

Winches & Hoists

Rotzler	www.rotzler.com
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Tyre Suppliers

Mitas Tyres	www.mitas-tyres.com
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Traffic Management

Atlas Traffic Management	www.atlastm.co.uk
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Technical & Safety Consultancy

Access Safety Management	www.accesssafety.co.uk
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Site Safety Audits

Access Safety Management	www.accesssafety.co.uk
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Vehicle Mounted

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

Low Level

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

Self Propelled Booms

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

Trailer Mounted & Narrow Access

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

Scissor Lifts

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

www.facelift.co.uk



DELLEN CRANES LTD

- **Crawler crane hire from 50t to 300t**
- Used crawler crane sales
- Crawler crane spare parts
- Test weight hire
- Fabrication of crane parts including boom sections
- Major overhauls including electric and hydraulic systems
- Site repairs and servicing for crawler cranes
- Ancillary equipment such as hooks, booms and grabs

Crawler cranes for sale

Fuwa QUY90 90t, Year 2009, 49m boom + 39m luffer

Fuwa QUY90 90t, Year 2014, 61m boom + 39m luffer

RB CH50 50t, Years from 1996 – 1998, 45m boom + fly available

Fuwa QUY160 160t, Year 2008, 63m boom, 31m fly Jib, runner jib

111 Station Road, Selston, Nottinghamshire NG16 6FF, England
Tel: +44 (0) 1773 581001 Fax: +44 (0) 1773 580483
Email: info@deldencranes.co.uk Web: www.deldencranes.co.uk



UNDERBRIDGE INSPECTION PLATFORMS FOR SALE



Manlift is upgrading and extending its rental fleet and has a number of used Barin underbridge inspection platforms for sale, including models mounted on 3.5 tonne chassis and larger units. All in good condition and currently working within our fleet.



Barin 130LS



Total weight **17,500kg**
Vertical reach below bridge deck **7.4m**
Horizontal reach under bridge deck **13.00m**
Platform payload **500kg**
Width taken up on bridge deck **2.5m**
Underbridge platform rotation **180 degrees**

Barin 60/L



Total Weight **3,500kg**
Vertical reach below bridge deck **4.0m**
Horizontal reach under bridge deck **6.0m**
Platform payload **300kg**
Width taken up on bridge deck **2.0m**
Underbridge platform rotation **180 degrees**



MANLIFT HIRE LTD.

Ballycurreen Industrial Estate, Kinsale Road, Cork.
Tel: +353 (0)21 431 1332 Tel:UK number +44 (0)1543 422868
Email: frankdelaney@eircom.net

E: manlift@eircom.net
www.manlift.ie

May 2019

Spare parts



BC-24V35A70

Haulotte eq. 2901009770

Battery charger
24VDC, 220VAC, 35A

Used for Optimum 8, Compact 10, Compact 12, Compact 14, STAR10



RE-24V1895

Genie eq. 74267

Contactor
24V

Used for GS1932, GS4047, Z30-20N, Z45-25JDC, ...



KS-4360470

JLG eq. 4360470

Switch, with key
3P

Used for 1932ES, 4069LE, E300AJ, 600SJ, 1500SJ, ...



FP-10003662

Multi brand

Fuel pump
Deutz

Genie eq. 111668
JLG eq. 70000916



DST-9T12V

Multi brand

Starter Deutz
9 teeth, 12V

Genie eq. 139709
JLG eq. 7020479



CBS-156879

Skyjack eq. 156879

Control box

Used for SJIII3220, SJIII3226, SJIII4626, SJIII6832, ...



CBC-1001096705

JLG eq. 1001096705

Cable Control box

Used for 1930ES



DE-J2902523

JLG eq. 2902523

Decal kit
safety (symbols)

Used for 2032ES, 2632ES, 2646ES, 3246ES



TI-323100NM-B

JLG eq. 1001133065

Wheel, non-marking
Type 323x100

Used for for R6, 1932RS, 6RS



TI-12165440/41

Genie eq. 1271440/41

All-terrain tire + rim, foamed
LH & RH

Used for for S40, S45

Machines

V26628



Upright
MX19

€ 3.250

2008 ■ / Hrs

Electric ■ 7,8 Mtr.

V20632



Haulotte
Compact 8

€ 8.950

2017 ■ 72 Hrs

Electric ■ 8,2 Mtr.

V27060



Haulotte
C10RTE

€ 7.950

2007 ■ 1020 Hrs

Electric ■ 10,14 Mtr.

V26871



Genie
GS3268RT

€ 9.950

2006 ■ 2700 Hrs

Diesel 4x4 ■ 11,75 Mtr.

V26496



Haulotte
HT12SX

€ 11.500

2008 ■ 2290 Hrs

Diesel 4x4 ■ 12 Mtr.

V21281



Genie
Z30-20NRJ

€ 27.500

2016 ■ 127 Hrs

Electric ■ 10,89 Mtr.

V22310



Niftylift
HR15NDE

€ 15.500

2008 ■ / Hrs

Bi-Energy ■ 15,6 Mtr. ■ New batteries

V26860



Manitou
170AETJL

€ 18.750

2009 ■ 1324 Hrs

Electric ■ 16,9 Mtr.

V21309



Genie
Z80-60RT

€ 79.500

2016 ■ 378 Hrs

Diesel 4x4 ■ 26,4 Mtr. ■ Generator

V24918



JLG
1250AJP

€ 49.500

2004 ■ 8132 Hrs

Diesel 4x4 ■ 40,1 Mtr.

More information?

- **Spare parts** + 32 56 612 666 ■ parts@vertimac.com
- **Machines** + 32 56 772 666 ■ sales@vertimac.com

www.vertimac.com



Vertikal Days Donington Park
15.-16.5.2019, Booth 125

CRANE AND ACCESS

The new truck crane AK 52

With a maximum payload of 12 t and a boom length of 52 m (opt. 55 m), the AK 52 is the most powerful aluminium-steel mobile crane in the 26 ton truck class. It lifts 1 t with a range of 34 m and can easily be converted to an access platform with a payload of up to 600 kg using the new man basket, which is extendable to a width of 3.5 m. Thanks to its compact design and the small slewing radius, its state-of-the-art telescopic boom and the hydraulically extendable jib of 14 m the AK 52 is perfect for tight spaces.

