

cranes & access

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May 2017 Vol.19 issue 3

Spider lifts
Telescopic
crawler cranes
Vertikal Days
show guide

Vertikal
days

...GMG brand launched...New 50t Sennebogen crawler...Lifetime Achievement award for Bowden...

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intisales_cr@kobelconet.com

KOBELCO CRANES MIDDLE EAST FZE
Sharjah, U.A.E.
Tel: +971-(0)6-557-6114
okagaki.yukinori@kobelco.com

KOBELCO CRANES
NORTH AMERICA INC
Houston, Texas, U.S.A.
Tel: +1-(0)713-856-5755
jack_fendrick@kobelconet.com

KOBELCO CRANES
SOUTH EAST ASIA PTE. Ltd
Singapore
Tel: +65-(0)6268-1306
hirakawa.takemichi@kobelco.com

KOBELCO CRANES
(SHANGHAI) CO., LTD.
Shanghai, CHINA
Tel: +86-(0)21-5382-0120
john.wei@kobelco.com

KOBELCO CRANES EUROPE Ltd.
FOR EUROPE, AFRICA, RUSSIA, CIS
Tel: +31-(0)36-549-5510
jos.verhulst@kobelco.com

KOBELCO CRANES INDIA PVT Ltd
Tel: +91-(0)11-40151900
miyashita.takeshi@kobelco.com

KOBELCO CRANES EUROPE Ltd.
FOR U.K., IRELAND AND SOUTH AFRICA
Tel: +44-(0)1342-301122
mark.evans@kobelco.com

www.kobelco-cranes.com

On the cover:

The Jekko stand provided a splash of colour at the Apex access equipment exhibition in Amsterdam earlier this month. A full show report will be in next month's issue.



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27 Spider lifts



77 Latest hi-tech developments



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E-mail: info@vertical.net

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New Sennebogen tele crawler crane, Genie extends XC boom range, New Palazzani spider lifts, CTE unveils a 32 metre MP truck mount, New Dino RXT boom lift, Almac extend tracked scissor lift range, New crawler mounted boom supplier, New aerial lift brand GMG, Maxim to acquire Coast Crane, Multitel launched a big deck truck mounted platform, Lifetime achievement award for Roger Bowden, Palfinger launches new spider and 103 metre truck mount, Rival acquires AFI GmbH, New 24m GSR, New 22m CMC truck mount, New 66ft boom lift from Manitou, Rival unveils 120ft JLG electric boom lift and Financials round-up.



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Unlike the current Rough Terrain crane market, sales of telescopic crawler cranes have gone from strength to strength over the past year or two. C&A reviews the latest developments and new launches.



Spider lifts 27

Spider lifts have become one of the most exciting and innovative sectors of the aerial lift market. We take a look at some of the market trends and developments of the past 12 months.



Vertikal Days 2017 show guide 37

This year Vertikal Days will be held at a new location - Silverstone in Northamptonshire, the home of Formula One. Once again the exhibition has grown and is now the biggest and best specialist access and lifting event in Europe. In this issue we publish a full pull-out show guide listing all the exhibitors, new products and essential show information.



Latest technological developments 77

Technology has advanced beyond all recognition with the arrival of the internet, smart phones and more computing power in a child's pocket than scientists used to send a man to the moon. We review the latest developments to affect the lifting equipment sectors.



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In the next C&A

The next issue of Cranes & Access scheduled for mid-June will feature reviews of Vertikal Days in the UK and Apex in Amsterdam, along with features on Loader cranes, Telehandlers and 3.5 tonne truck and van mounted lifts. If you have any contributions or suggestions or are interested in advertising in this issue, please contact our editorial or sales teams.

Vertikal Days is moving to Silverstone with more room to grow.

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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



To innovate or not to innovate...
that is the question

We are living in a period of incredibly fast-moving technical advancement. For manufacturers trying to become the first to adopt and benefit from these opportunities the costs can be very high and the end result is far from guaranteed - so why risk it?

Companies investing in these areas are hoping that the technology will result in game-changing or more cost-effective products that will be widely adopted by customers and give them a competitive edge.

In our feature on page 77 we take a look at the latest hi-tech developments coming on stream such as Virtual Reality and Augmented Reality.

There are however still many technophobes who prefer simple, 'low-tech' machines, that are easier to maintain and repair and perhaps cheaper to purchase. Taking a slightly cynical view, manufacturers not at the 'cutting edge' may benefit by waiting and watching and then adopting new ideas only when they become mainstream and have been proven.

In the aerial lift market some product sectors have changed little over the past 20 years, reducing the incentive for users to replace older machines given that new ones offer little extra in terms of performance. After all, a five to 10 year old scissor, boom lift, crane or telehandler fetches roughly the same rental rate as a brand new one. This is driving the increasing number of older machines being refurbished, giving them a new lease of life for about half the cost of new.

Manufacturers which adopt the 'lower tech' approach can still do well - proving that the latest technology is not everything, so long as the equipment does the job, is reliable and well supported. Some recent developments however, such as outrigger sensing and automatic load chart or working envelope selection do change the game, while others such as on-board diagnostics and telematics are now coming of age as rental companies discover that they can improve efficiency and customer service. Technology such as this almost guarantees to obsolete older machines and provides a powerful reason to replace and upgrade.

Occasionally buyers rebel with a 'back to basics' attitude - usually when technical progress appears to over complicate or have gone too fast - history tells us though that the long-term trend is towards ever greater sophistication. How many of us for example would be happy using even a 20 year old car for our everyday transport? Very few I think.

The current pace of development is breath-taking, with new ideas popping up before previous ones are fully adopted. Augmented Reality is one area that will could take the industry to another level, creating a gap between the hi-tech manufacturers and those who prefer a more basic approach. Those that embrace and develop this progress are likely to reap the greatest long-term rewards.

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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GMG enters aerial lift market

A new brand of aerial work platforms - GMG or Global Machinery Group - is to be officially launched at Vertikal Days, with a seven model range of slab electric scissor lifts. The US-based company with locations in California and the Netherlands is part owned by Jim Tolle who was recently with MEC Aerial Work Platforms. The identity of the other owners and backers have not been released.

GMG says it is focussing on new equipment for the rental market, including aerial work platforms, earthmoving and industrial machines. It plans to source the equipment from different manufacturers on an OEM basis and will evaluate each product in-depth, redesigning as required. In some cases, a new model may be designed from the ground up and then sourced from a manufacturing partner.

Each model the company adopts will be subjected to a rigorous test programme before being submitted to a leading notified body for third party evaluation and certification. To obtain the lowest prices GMG says it will commit to substantial volumes of each model from the supplier. The company says that each of the above stages have already been completed for the new slab scissor lift line and it already has some large provisional orders subject to customer's evaluating the final production units. GMG has refused to reveal the manufacturer of the scissor lift line apart from saying that it is a 'highly experienced' Chinese manufacturer. The products will be sold throughout western markets.

The first models on display at Vertikal Days include the 10ft 1030-PA, 13ft 1330-ED, 19ft 1930-ED, 26ft 2632-ED, 33ft 3346-ED, 40ft 4046-ED and the 46ft 4646-ED. They are designed to be simple in terms of layout but will feature electric direct drive wheel motors and use proven international componentry. A two year warranty will be provided, and prices will be - according to the company - 10 to 25 percent below current market levels. Further products are planned for launch later this year.

Tolle said: "The GMG team is made up of seasoned veterans, we know and understand the equipment business, we know what works and what doesn't and we know what our customers go through in order to maintain a successful business. It isn't easy for rental companies in today's market to be competitive but still offer reliable equipment and yet remain profitable. GMG products are high quality, innovative, long lasting machines at wholesale pricing, it doesn't need to be anything else."



The first GMG product - a 26ft 2632-ED.

Catamount launches crawler boom

New company Catamount has launched its first product the 25ft 25.10 telescopic crawler boom. Outreach is limited to 5.1 metres with 80kg or 4.6 metres with the maximum platform capacity of 150kg/one person plus tools. The machine weighs just 2.55 tonnes and an overall width of less than 1.6 metres, allowing it to be towed on a two axle trailer. The new lift uses a three section, octagonal boom, is mounted on low profile rubber tracks with a non-marking option and has Yanmar power.



The Netherlands-based company is owned by Caspar van Woerden of Van Woerden Trading International, who said: "The development work has taken two years with the whole machine - including boom and undercarriage - fabricated by us in-house. Production capacity is around two units a week and we have plans for a larger machine weighing about 5,500kg and with a working height of about 12 to 13 metres."



The new Catamount 25.10 telescopic crawler mounted boom lift

New 50t Sennebogen crawler

Sennebogen has announced a new 50 tonne lattice crawler crane, the 1100E, the smallest model in its current range. Boom lengths range from 10.3 to 52.3 metres and as with other Sennebogen cranes the 1100E switches into a safe mode when the capacity on the hook exceeds 90 percent of the load chart. It can also lift on slopes of up to three degrees. Overall weight of the basic machine is just 30 tonnes and transport width three metres. Power comes from a Cummins Tier IV diesel coupled to multi-circuit hydraulic system for simultaneous crane operations. A Tier IIIa option is available for developing markets. The main hoist has a maximum speed of 125 metres a minute and is driven by a high pressure adjustable hydraulic motor for maximum efficiency.



The new Sennebogen 1100E

New five tonne Maeda mini crawler

Maeda has launched a new five tonne mini crawler crane, the CC985, the second model in its new CC mini crawler crane line, joining the significantly larger six tonne CC1485.

The CC985 features a five section 16.5 metre pentagonal boom and a 4.5 metre telescopic swingaway extension for a tip height of 23.5 metres. The air conditioned cab features a rear view camera and seven inch monitor as standard. Pick & carry capacity is two tonnes and overall weight is 9,450kg - five tonnes lighter than the CC1485 - and it is more compact, with an overall width of 2.32 metres, overall length of 5.2 metres and an overall height of 2.73 metres. Power is an Isuzu EU Stage 3B/4B compliant Isuzu coupled to a hydrostatic transmission.



Maeda CC985

A new 22 metre Manitou boom lift

Manitou has launched a new 66ft telescopic boom lift, the 220TJ and a heavier, larger platform + version. The new machines

combine the running gear of the 60ft 200ATJ articulated boom, with a three-section version the 80ft 260T telescopic boom and same two metre articulated jib. Unrestricted platform capacity is 230kg or 350kg for the 220TJ+. Outreach is 17.6 and 17.8 metres respectively, while the overall weights are 11,850 and 13,800kg.



220TJ Manitou

Compact Snorkel RT scissor

Snorkel launched two super compact Rough Terrain scissor lifts, the 22ft S2255RT and 27ft S2755RT with an overall width of 1.45 metres.

Platform capacity is 420kg and 300kg and the overall weight 2,360kg and 2,580kg respectively complete with standard levelling outriggers and 1.2 metre roll-out deck extensions, making them light enough for a standard two axle trailer.



First Palazzani articulated spider lift

Palazzani has unveiled its first spider lift with an articulated boom, the 32 metre TZ330. The tracked lift is similar to the TCA Falcon FS320Z with a two-stage sigma type riser, four section telescopic boom and articulated jib.

C&A news

Big platform Multitel

Italian manufacturer Multitel Pagliero has developed a new mega platform truck mounted lift in partnership with Skyworker Trade of Switzerland.

The 10 metre MS100, features a two-section telescopic boom topped by a 3.3 by 1.85 metre platform with a capacity of 400kg and up to 500mm of lateral movement. Mounted on a 3.5 tonne Nissan NT400 Euro 6 chassis, overall width is 1.9 metres including stabilisers. A six metre working height is possible free on wheels, while a hydraulic friction drive provides travel at up to 5kph while elevated.



Compact Versalift

Versalift has unveiled the nine metre LT-23-90-TB aerial lift mounted on a compact Fiat Doblo WorkUp chassis which does not require outriggers.

The new lift features an overall length of less than five metres and an overall weight of 2.5 tonnes with 250kg of spare cargo capacity. Outreach is 4.2 metres and the one-man fibreglass bucket has a platform capacity of 120kg. A capacity upgrade is available as is a detachable tow bar.



Another CTE MP

Seven years after it launched the 20 metre MP 20.13, CTE has decided to take the concept up a notch with the new MP 32.19 on a 7.5 tonne chassis.

The new model has a two-section lower boom topped by the slew ring, three section top boom and a two-section telescopic jib with almost 180 degrees of articulation. The unit offers 300kg platform capacity and up to 19 metres outreach at an up and over height of more than 12 metres.



Larger Almac tracked scissors

Almac has launched two larger tracked scissor lifts, the 33ft 1270-HE and the 39ft 1470-HE.

The new units, do not level from the tracks but rely on jacks which can level the machine up on slopes of up to 11 degrees. They are also fully self-propelled up to six metres.



IPAF Summit 2017

The IPAF Summit and awards dinner was held in Wembley, London this year kicking off with a networking event in Wembley stadium attended by around 250 delegates. The following day started with the federations Annual General Meeting, which included the appointment of a new president, Nick Selley of AFI taking over from Andy Studdert.



Tim Whiteman congratulates IPAF's new president Nick Selley who called for members to step up apprentice schemes for young people

Starting his two-year term Selley immediately called for the industry to do more to attract more young people saying: "Young people are the future of our industry. They are the leaders of tomorrow and during my presidency I will be strongly promoting the need for our members to further develop their apprenticeship programmes."

The AGM was followed by the Summit with around 300 to 400 delegates dipping in and during the day. A wide range of speakers ranged from Terex chief executive John Garrison who talked about safety leadership and his personal feelings and beliefs, Steve Radcliffe of Clugston Construction on how contractors can help improve safety standards, Yanna Zhang, chairman of China Construction Industry Association's Rental Branch, on the Chinese work platform market, Cranes & Access publisher Leigh Sparrow on the UK market and ending with Jim Senior, health and safety director of Multiplex Construction Europe talking about the building of Wembley Stadium.



John Garrison of Terex gives his personal view on safety

The awards dinner was compered by the well-known sports broadcaster John Inverdale. The award winners included:

- Vehicle Mounted Product of the year - The CTE B-Lift 17E electric powered truck mounted platform.
- Self-Propelled Product of the year went to the 42 metre Teupen Puma 42GTX.
- Mastclimber product of the year went to Alimak Hek for its Mammoth Triplex
- The Innovative Technology Prize was won by Serious Labs for its AWP Virtual Reality Training Simulator.
- IPAF Training Centre of the year award was won by Manlift UAE
- Anderson Puff of Mills, Brazil was named IPAF Training Instructor of the year
- The Access Rental Company of the Year award went to Riwal
- Contribution to Safe Work at Height was won by Modern Access & Scaffolding of Hong Kong
- Powered Access Pioneer award went to Alo Group of Chile
- Photograph of the year was taken by Ed Darwin of Nationwide Platforms
- Project of the Year went to Smart Platforms Solutions for a solution that combined a suspended platform and a self-propelled telescopic boom lift.



Around 450 attended the awards dinner



The award winners take a bow



Roger Bowden (L) with comper John Inverdale

Lifetime achievement award for Roger Bowden

The most popular award announcement of the evening without question was the IPAF/IAPA Lifetime achievement award going to Roger Bowden founder and chairman of Niftylift.

Bowden graduated in Mechanical Engineering and Production Technology in 1971 going on to serve as chief engineer for access pioneer EPL International. In 1977 he established a one-man sales company to distribute access equipment and then added a rental company in 1980.

In 1985, he made the decision to manufacturer his own products and started Niftylift, the company that would define his career. Since then the company has grown at a steady pace and is now home to more than 460 employees with operations in more than 40 countries. The company has been responsible for a number of innovations that have led the market, from a simple Bi-Energy power unit for its small booms, to the SioPs built-in secondary guarding system and the first true hybrid powered work platforms.

Bowden is also passionate about engineering education and involves local schools with the company's engineering projects, while supporting the development of more than 120 apprentices and undergraduate engineers. Niftylift is also a long-term sponsor of the Engineering Education Scheme which nurtures young engineers and he runs an Institution of Mechanical Engineers Development Scheme.

Next year's AGM, Summit and awards dinner will be held on March 8th in Miami, Florida.



Roger Bowden of Niftylift receives his lifetime achievement award (L-R) Tim Whiteman of IPAF, Roger Bowden, Euan Youdale of KHL and comper John Inverdale



Maxim to take Coast

Maxim Crane Works has agreed the acquisition of Coast Crane Company from Essex Rental in a \$72.5 million all-share purchase deal. On completion Maxim will integrate Coast into its existing business. The deal provides Coast/Essex with the option to consider other offers up until the completion date. See www.vertical.net for full story.

Dinolift unveils 85ft RXT

Dinolift has announced the 85ft 280 RXT semi self-propelled all terrain boom lift, the new machine has two metres more working height than the existing 260RXT at 28 metres, more outreach at 16 metres, more up and over reach at more than eight metres, with a new articulated jib.

Thanks to a new high strength steel boom design, it manages to maintain an overall weight of well under five tonnes. Standard features include four wheel drive, four wheel steer, oscillating front axle, a state of the art Moba control system and a higher 10kph stowed drive speed. The new machine will be on display at Vertical Days.



The new Dinolift 280RXT

New Safety Alert Protocol

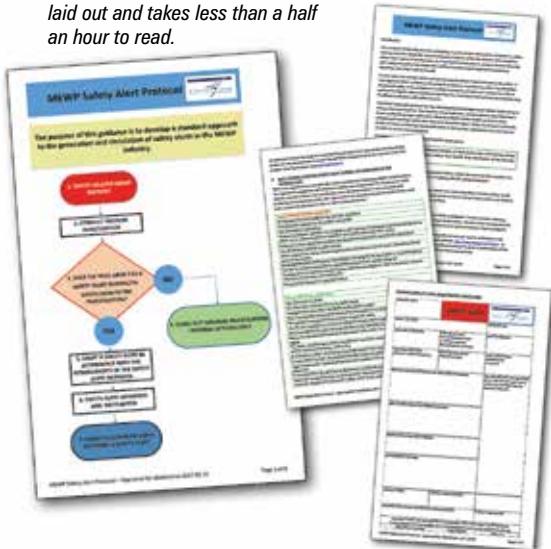
The UK's Strategic Forum Plant Safety Group's mobile elevating work platform sub group - whose members include the CPA, IPAF, HSE, CITB, BCSA, FASET, SAFed, NPORS, major manufacturers and a number of major contractors - has developed a Safety Alert Protocol which sets out a voluntary standard for the writing of Safety Alerts issued by contractors following an incident on site that they believe may be related to equipment design, manufacture or maintenance.

The guidance aims to help those writing the alert ensure that it is authoritative and helpful for those that receive it. A standard layout format is included along with clear and concise tips of when and when not to issue a widespread alert.

IPAF technical and safety executive Chris Wraith said: "Safety Alerts are always issued with good intentions, but sometimes omit key information, which can lead to speculation and over-reaction. We hope this protocol will help improve safety whilst maintaining productivity."

The full guide can be found on www.vertical.net/uploads/tx_filelinks/mewp-safety-alert-protocol_-2017-02-15.pdf

The Protocol is well written, well laid out and takes less than a half an hour to read.



CWE 525: Max hydraulic outreach: m 30
Load capacity Kg 14500 - Easy access: Max width mm 1850

M250: Full hydraulic JIB with 195' opening
Max hydraulic outreach m 15.65



M060: PICK AND CARRY - Max hydraulic outreach: m 3 - Max load capacity Kg 240 - Width mm 780



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AFI Germany runs a fleet of more than 1,300 aerial lifts and telehandlers.

Riwal acquires AFI GmbH

Dutch international rental company Riwal has acquired German aerial work platform and telehandler rental company AFI GmbH from owner Günther Aust.

AFI GmbH was established by Aust in 2003 with the support of AFI in the UK although the connections between the two companies ended not long after the German business 'found its feet'. The company runs a fleet of 1,300 machines from nine depots across Germany and 110 employees.

Aust will remain on board as managing director for the next three months and will stay involved as an advisor for at least another nine months after that. Riwal chief operating officer Søren Rosenkrands will be in charge of the integration with Riwal Germany which will continue to be managed by Nick Field.



New 103 metre Palfinger...

Palfinger Platforms has launched an updated version of its 103 metre WT1000 truck mounted lift rebranded the P1000.

The P1000 offers up to 35 metres of outreach and variable platform capacities from 200kg at full height or outreach to a maximum of 530kg. It also includes most of the new technology from the company's new Jumbo NX Class. The biggest change is the updated five axle Tadano crane carrier with a new cab and a 600mm narrower outrigger footprint.



...And another new spider lift

Palfinger also unveiled a new 18 metre P180 AJTK spider lift at Apex, the second in the company's all-new spider lift range. The new model follows the P150AJTK launched last year, and will be built in Italy by Palfinger Italia. It offers up to 7.7 metres of outreach, an overall width of 790mm - without basket - while overall length with platform is 4.44 metres or 3.85 metres when removed. The machine weighs 2,400kg and power comes from a petrol/gas engine,



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New 24m GSR

Italian manufacturer GSR has launched a new 3.5 tonne, Euro 6, 24 metre articulated truck mounted lift, the B240PX.

The new machine features a dual sigma type riser and three section telescopic boom with 12.3 metres of outreach and an up and over clearance of around eight metres. Maximum platform capacity is 250kg with 140 degrees of platform rotation and the new machine is available on either the Nissan NT400 or Mercedes Sprinter MB311 chassis.



The new GSR B240PX on a Nissan chassis at work

New 22m telescopic from CMC

Italian truck mount and spider lift manufacturer CMC has launched a new 22 metre telescopic truck mount on a 3.5 tonne Euro 6 Nissan chassis, the PLA220.

The new model has an innovative open frame superstructure design and offers up to 15 metres of outreach with 80kg while maximum platform capacity is 220kg. Jacking can be inboard or with front outriggers extended to provide the maximum performance though 360 degrees. A 25 metre version, the PLA 250 is on the drawing board for launch later this year.



The new 22m CMC PLA220

Hiab delivers first HiVision

Hiab has delivered its very first crane equipped with HiVision Virtual Reality remote control system to a customer in Sweden.

The Loglift forestry crane incorporates four cameras on top of the crane structure giving the operator a realistic 270 degree view of operations, allowing him to operate the crane from a remote controller in the chassis cab. The first customer Ackestens Åkeri added the option to its latest crane - mounted on a Scania truck - after seeing a demonstration last year. Hiab says that further cranes with the HiVision option are scheduled to be delivered in Europe and Japan later this year.



(L-R) Mattias and Johan Ackesten with the first crane equipped with Hiab's HiVision controls

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First half revenues at **JLG** fell five percent to \$1.2 billion, sales of aerial lifts were two percent lower at \$603.1 million, telehandler sales plunged 28 percent to \$254.9 million while other revenues improved four percent to \$354.4 million. Operating profits were 31 percent lower at \$66.5 million, although \$17.2 million of this is due to restructuring charges. The bright news is that the order book at the end of March is up 11 percent to \$723.2 million.



First quarter revenues at **Genie /Terex AWP** were nine percent lower at \$472.4 although order intake improved 38 percent, lifting the company's backlog 21 percent. Operating profits plummeted 43 percent to \$21.7 million.



United Rentals first quarter revenues were \$1.36 billion, almost four percent higher than last year. Pre-tax profits for the quarter jumped 10 percent to \$161 million. In light of the results the company increased its full year forecasts by five percent.



Haulotte's first quarter revenues increased 16 percent to €133.3 million thanks to a 33 percent rise in European and Pacific region sales, offset by slower sales in the Middle East and North America which fell 20 percent.



Terex Cranes has reported first quarter revenues just over 14 percent lower at \$263.9 million, while the company's operating loss increased from \$16.6 million last year to \$32.8 million this year. Order intake was a bright spot improving 17 percent and pushing the order book up two percent.



Cramo reported first quarter revenues of €162.9 million, 4.8 percent up on last year, while pre-tax profits jumped 83 percent to €15.9 million. All regions posted higher revenues and improved profitability. Capital expenditure was almost 16 percent higher at €35.4 million.



Liebherr mobile and tower crane sales in 2016 declined 4.5 percent to €2.48 billion. Of this mobile crane sales were €2.07 billion - a fall of four percent - while tower crane sales were 6.8 percent lower at €410 million. Maritime crane sales dropped 15.4 percent to €816 million, taking total Liebherr crane sales to €3.3 billion.



Vp has acquired the assets and business activities of the mechanical & electrical equipment sales and rental activity of Jackson Mechanical Services (UK) Ltd - JMS M&E - for £3.6 million in cash. The transaction does not include the JMS Plant Hire - Powered Access Division.



Dutch international rental group **Boels** has acquired UK tool hire company **Supply UK Group** from its management for an undisclosed sum. Supply UK operates from 25 locations with revenues of £15.4 million and a pre-tax profit of £946,165.



Full year revenues at UK rental group **HSS** were 9.6 percent higher at £342.4 million, but pre-tax losses increased to £17.4 million from £13.8 million last year. The company is looking for a new CEO.



Sunbelt Rentals, the US arm of **Ashtead**, has acquired New York-based aerial lift rental company **Pride Equipment** for \$279 million in cash.



UK-based **Banner Plant** has acquired **Premier Plant and Tool Hire** which operates from two depots in Leicester. The fleet includes telehandlers, aerial work platforms and scaffold towers.

Speedy says annual revenues should be seven percent higher in 2016, with pre-tax profits well ahead of last year.



Dutch rental company **HWS** is opening **HWS Rental UK** in partnership with ex-Rival manager **Tim White**. The company will focus on long-term re-rental and sales of niche aerial lifts, such as heavy-duty scissor lifts and hybrid boom lifts. It is also working with **Collé** to distribute AB Lift products in the UK.



Palfinger has reported record first quarter revenues of €361.9 million up 13.5 percent on last year, with most growth coming from its European loader crane business and Russian ventures.



First quarter revenues at **Alimak** jumped 71 percent to SK776.6 million (\$88.7 million) thanks to contributions from Avanti Wind Systems and Facade Access Group. Pre-tax profits were up more than 55 percent to SK74.7 million (\$8.5 million).



Hiab has reported record first quarter sales of €270 million a 10 percent rise on last year, operating profit for the quarter was 23 percent higher at €39.5 million. Sister company **Kalmar** saw revenues fall one percent to €364 million, but operating profits improved six percent to €26.6 million.



Maxim Crane Works has agreed the acquisition of **Coast Crane Company** from **Essex Rental** in a \$72.5 million all-share purchase deal.



Ruthmann has reported record revenues for 2016 and a strong start to the new year. Total revenues were €143 million, almost 25 percent up on 2015, much of it due to the **Marti** acquisition, now Ruthmann Italia.



Manitou has reported a 22 percent jump in first quarter revenues to €380 million, with order intake rising 41 percent to €433 million, taking the order book to €461 million, up 34 percent on the quarter.



For the full reports on all these stories check out Vertikal.net



The scene after the boom came down - the operator managed to slew and possibly retract the boom a little before it hit the boundary wall.

Crawler crane incident report

St James Group - the contactor of the site where the Hitachi-Sumitomo SCX400T telescopic crawler crane boom came down in January - has released a report with full details of the investigation.

The operator was lowering the boom while lifting an 800kg compressor, when the pressure transducer on the boom lift cylinder sheared off causing the boom to descend rapidly. The operator was able to retract the boom and little and slew a little to avoid injuries and damage. The full report is on the Vertikal.Net online Library.



Rival's all electric version of the JLG 1200SJP

120ft electric boom lift

Rival has unveiled an all-electric conversion for the 120ft JLG 1200SJP telescopic boom lift. The diesel engine and fuel tank are replaced with an electric motor, large battery pack and charger.

The vast majority of the machine remains unchanged, including the 38 metre working height and 23 metres of outreach, but with zero emissions and drastically reduced noise levels. The company is adding the new machine to its rental fleet but also building units for sale to other rental companies and end users.

Manitou acquires Terex Construction India

Manitou has acquired Terex Equipment Private Limited in Greater Noida, which specialises in the design, manufacture and distribution of construction equipment, mostly loader backhoes, dumpers and skid steer loaders with revenues of around €30 million - mostly in India and Southern Asia.

Manitou chief executive Michel Denis said: "This acquisition perfectly fits our strategy to reinforce our presence in emerging markets. Terex Equipment Private has a solid dealer network which we will continue to further develop. It will be a strong industrial base for Manitou to develop new product ranges for Asia and emerging countries."

The Terex plant in Greater Noida, India



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- Florida's **Sims Crane** has appointed **Kaliopé 'Popi' Fatolitis** as commercial construction manager.
- Kalmar** has appointed **Thomas Malmberg** as senior VP of services and **Stefan Hultqvist** as VP forklift trucks.
- Skyjack** has appointed **Nationwide Skylift** (Malaysia) as a dealer for its aerial lifts and telehandlers.
- Palfinger Asia Pacific** has opened its new office in Jakarta, Indonesia.
- Malcolm Kitt** is working with Paus dealer The Furniture Hoist Company in the UK.
- Nashville-based **Clark Crane** has purchased two new **Liebherr All Terrains**.
- UK's **Utility Equipment** has launched a new company - **Uniquely Engineered Components**.
- UK distributor **Skyking** has appointed **Josh King** as workshop engineer and **Dorota Kaczmarek** as parts assistant.
- Holland Lift** has delivered its 8,000th scissor lift, an HL190 H20 to Finland's **HRK**.
- Gruas Maule** of Chile has ordered a 650 tonne **Demag CC 3800-1** crawler crane.
- Austrian rental company **Maltech** has invested €7.6 million in its rental fleet.
- German rental company **Dietmar Flossdorf** has taken a **Liebherr LTM 1500-8.1**.
- Manitou** has appointed **Richard Alton** as president of operations in the USA.
- Faresin** has appointed **Omega Sales** as distributor for the Netherlands.
- Germany's **Kawelke Kranverleih** has taken a new **130t Demag AC130-5**.
- Doosan Bobcat** has appointed **Alvaro Pacini** as president of Europe, Middle East and Africa.
- Vp, owner of **UK Forks/Higher Access** has acquired **Zenith Survey Equipment**.
- Finland's **Ramirent** and Germany's **Zeppelin** have formed a cabin rental partnership.
- Damen Shipyards** has ordered a new **Liebherr CBG 350** marine crane.
- McGovern Crane Hire** of the UK has taken a **60t Liebherr LTM 1060-3.1 All Terrain**.
- Rotterdam Short Sea Terminal** has ordered two **Kalmar Ship To Shore** cranes.
- UK dealer **Workplatform** has appointed **Glyn Goodwin** as business development manager.
- Active Crane Hire** has taken the first **Potain Hup** self-erecting cranes in Australia.
- Brazil's **Locar** has taken four **250t Liebherr LTM 1250-5.1 All Terrain** cranes.
- Mexico's **GSL** has taken delivery of a new five axle **220t Demag AC 220-5 All Terrain** crane.
- Russian rental company **Vertex** has ordered 57 new **JLG** lifts.
- Tadano America** has appointed **Todd Elkins** and **Bob Krause** as regional business managers.
- Hiab** has appointed London-based **Hydraulic Fleet Solutions** as its service partner.
- UK-based **Banner Plant** has acquired and Tool Hire.
- The Sultan of Oman's Armed Forces has taken an **18m/4,000kg Genie GTH-4018** telehandler.



**Kaliopé
Popi
Fatolitis**



**Malcolm
Kitt**



**Dorota
Kaczmarek**



**Richard
Alton**



**Alvaro
Pacini**



**Todd
Elkins**



**Bob
Krause**

- Norman Kelsey**, former national service manager at **Hewden Stuart Crane Hire**, has died age 75.
- UK-based **NMT Crane Hire** has taken delivery of a **35t Kato CR-350Ri** City type All Terrain crane.
- German contractor **Hauck Hausbau** has taken a **70t Tadano ATF 70G-4 All Terrain** crane.
- Sennebogen** has appointed **Ascendum** and **JasminM** as dealers in Croatia and Bosnia.
- Wacker Neuson** CEO **Cem Peksaglam** is leaving the company.
- Canada-based **Leavitt Cranes** has acquired **Pacific Tower Crane** and **Pacific Lift Equipment**.
- Liebherr-Argentina** has opened new offices in Buenos Aires.
- Integrated Logistics** has ordered 12 new **Demag All Terrain** cranes.
- Tat Hong** has acquired 100% of **Tat Hong Vietnam**. UK-based **Hire Safe Solutions** has taken the first of three **150ft JLG1500AJ** boom lifts.
- UK-based **Ardent Hire Solutions** has appointed **Leigh Webb** as sales director.
- Maeda USA** has appointed **Tanner's Crane Service** as dealer for **Arkansas**.
- UK-based **Commhoist** has taken a **40t Liebherr LTM 1040-2.1**, part of a four unit order.
- Skyjack** has appointed China's **Xuzhou Handler Special Vehicle** as a distributor.
- Geda** has appointed **MN-Liftek** as its distributor for Finland.
- Isoli** has appointed **Giorgio Caberlotto** as export manager Eastern Europe/Russia, Asia, Middle East and Central Africa and **Alberto Caon** as export manager Western Europe.
- JCB USA** has promoted **Richard Fox-Marrs** to chief executive, replacing **Arjun Mirdha** who left the company.
- Gabriele Valli** has left **Isoli** and joined **Co.Me.T** as export manager.
- UK-based **John Sutch Cranes** has ordered five **Terex All Terrain** cranes.
- Sweden's **Kranpunkten** has taken delivery of 30 **Genie** scissor lifts.
- Germany's **Franz Bracht Kranvermietung** has taken delivery of a **Spierings SK 1265-AT6**.
- Belgium's **Publilux** has taken delivery of a truck equipped with both **Versalift** platform and **Palfinger** crane.
- Cramo** senior VP modular space, **Petri Moksén** has left the company.
- Egypt's **Suez Shipyard Company** has taken delivery of two **Grove All Terrain** cranes.
- South Africa's **Goscor Access** has taken an **84ft Holland Lift HL-275 D27**.
- UK-based **Chamberlain Crane Hire** has taken a **70t LTM 1070-4.2 All Terrain** crane
- Germany's **Atlas** has appointed **Atlas Maschinen Bulgaria** as its Bulgarian distributor.
- WireCo** has confirmed **James O'Leary** as chief executive.



**Norman
Kelsey**



**Cem
Peksaglam**



**Leigh
Webb**



**Richard
Fox-Marrs**



**Petri
Moksén**



**James
O'Leary**

- UK-based **Southern Cranes & Access** has ordered six new **Liebherr** mobile cranes.
- UK-based **Bryn Thomas Cranes** has appointed **Colin Hodgson** as sales director.
- Sweden's **Vätterbygdens Kran** has taken a **250t Demag AC 250-5 All Terrain** crane.
- Roberto Marangoni** is joining **Multitel Pagliero** as export sales director.
- The UK's **Access Link** confirmed four new members.
- Ireland-based **Crane Hire Ltd** has taken a **Liebherr MK 140** mobile tower crane.
- Genie** has appointed **Keith John** as territory sales manager UK South.
- UK-based **Marsh Plant Hire** has taken a new **20 tonne Kato CR-200Ri**.
- Dave Freebody** has left **Riwal UK** to become an Independent **IPAF** trainer.
- US-based **Scott-Macon Equipment** has taken a **Tadano Mantis GTC-800** telescopic crawler crane.
- UK company **King Lifting** has taken delivery of two new **Liebherr All Terrain** cranes.
- Scania Finland** has ordered **Hiab** loader cranes and hooklifts for the Finnish Defence Force.
- UK-based **Sparrows Group** has won a major crane maintenance/inspection contract in Australia.
- UK-based **Baker Plant Hire** has taken two **Genie Z-45/25JRT** booms and two **GS-2632** scissor lifts.
- Genie** has extended the telescope cable replacement protocol on three section telescopic boom lifts.
- UK-based **Hire Access Platforms** has achieved the **IPAF Rental Plus** quality certification.
- UK's **Crowland Cranes** has taken a **60t Liebherr LTM 1060-3.1 All Terrain** crane.
- MEC Aerial Work Platforms** has appointed **Deanne Hix** as VP sales operations and strategic planning.
- UK-based **Extreme Powered Platforms** has taken **Haulotte** booms, scissor lifts and telehandlers.
- Scotland's **Horizon Reinforcing & Crane Hire** has taken a **Liebherr MK 88 Plus** mobile tower crane.
- UK-based **Berry Cranes** has taken delivery of a **Liebherr LTM 1040-2.1** with a **LTM 1060-3.1** to come.
- Sunbelt/Ashtead** has acquired the Los Angeles-based rental fleet of **Noble Iron**.
- Raimondi Cranes** has appointed **Mauro Masetti** as commercial director.
- Scotland's **Bernard Hunter Mobile Cranes** has promoted **Mark Rafferty** to managing director.



**Roberto
Marangoni**



**Keith
John**



**Deanne
Hix**



**Mauro
Masetti**

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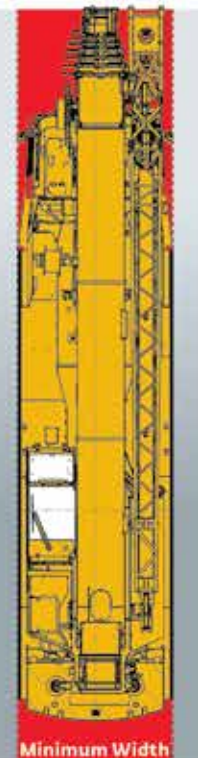
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Keep on tracking

At the end of last year (C&A Vol 18 issue 8) we compared Rough Terrain and telescopic crawler cranes for work on poor ground. Despite their obvious differences, they offer similar benefits of easy, quick set-up, ability to cope with tough ground conditions, plus pick & carry capability.

The market for Rough Terrains has been sluggish over the past year or two, principally as a result of the economic conditions in the oil & gas sector. Sales however are now beginning to recover. At the same time demand for telescopic crawler cranes has continued to go from strength to strength, albeit from a relatively low, niche base. The telescopic crawler is rapidly becoming a more mainstream product and will be spurred on by several new models that have recently been launched into the market.

Interest in larger capacity telescopic crawlers must surely be based on the increased use and awareness of smaller crawler cranes along with the growth in spider cranes, a concept that began in Japan. These cranes have helped to break down preconceived conceptions encouraging users and buyers to be more open-minded to the benefits of all telescopic crawlers.

Around for a while

Telescopic crawlers have been around far longer than most people realise. In the mid 1960's Grove

put superstructures onto crawler chassis, while in the UK Coles attempted to market a standard product and Kato introduced a product in Japan. In the early days, most crane users did not understand the point of putting a telescopic boom on a slow heavy set of tracks preferring more versatile Rough Terrain or truck cranes. The market for telescopic crawlers was largely limited to a niche end-user purchase, although a few specialist manufacturers - such as Spandek-Mantis in the USA and IHI in Japan - began to carve out a market from the 1980s.

The whole purpose of the telescopic boom is that it remains with the crane for transport, allowing rapid set-up once on site without the need for booms to be rigged. It was therefore often limited to short term work where the set-up savings were of most benefit. Only a few users appeared to have appreciated the benefits of being able to retract the boom every night, or to travel under overhead obstacles etc. However in recent years there has been enormous development

Sennebogen 653E



C&A telescopic crawlers

and improvement in the lifting performance, design and versatility, choice and cost of telescopic crawlers helping spur on further take-up.

The ready availability of telescopic crawler cranes has also been an issue, with most rental companies only purchasing them for specific customer requirements such as on large tunnelling contracts or where the crane had to work or pass through areas with low headroom. As more rental companies have added telescopics to their fleets the more end users have specified them, and the more manufacturers have entered the market.

New crane launches at Conexpo

At Conexpo in March the telescopic crawler was one of the stars of the show, with several new launches from a wide range of manufacturers. On home turf, Link-Belt showed its biggest telescopic crawler to date, the 227 tonne TCC-2500, which is also the largest telescopic crawler crane currently produced eclipsing Liebherr's 220 tonne LTR 1220. There was also new model from Grove, the latest product of its agreement with German manufacturer Sennebogen, two new models from Tadano Mantis and one from Chinese manufacturer XCMG as well as several smaller mini telescopic crawlers from the likes of Maeda, Jekko and Sunward.

Biggest Link-Belt

Most telescopic crawler crane sales fall within the 40 to 120 tonnes range, with larger models quite rare. Liebherr ceased production of its mammoth 1,200 tonne LTR 11200 around two years ago due to the lack of sales, resulting in its next largest - the 220 tonne LTR 1220 - becoming the biggest available. So the launch of Link-Belt's TCC-2500 is quite newsworthy.

Link-Belt has been producing telescopic crawler cranes since 2005 and since then has expanded its TCC range to five models ranging from 46 to 227 tonnes. Initially it aimed the cranes at powerline utility applications, where the low ground bearing pressure and ability to cope with rough ground are ideal. However as their popularity has grown, sales to rental companies and general contractors have increased, not only in North America but also in Australia, Europe, South America and Singapore.

In last November's issue just after the first details of the big Link-Belt were announced we compared it with the Liebherr LTR1220, which showed that in terms of boom and overall reach the new crane stacked up well. A few weeks later US crane and access rental company ALL Erection & Crane Rental showed its confidence in the new crane with an order for six TCC-2500s with deliveries spread throughout this year and into the first half of 2018.

All Erection president Michael Liptak said: "We didn't hesitate with our purchase decision for this crane."



The 227 tonne capacity Link-Belt TCC-2500



The new 30 tonne Grove GHC30.



A telescopic crawler inserting sheet piles

Link-Belt telescopic crawlers have been significant contributors to our fleet. The TCC-2500 just takes everything that is great about Link-Belt telescopic crawlers to a new unmatched combination of reach and capacity."

The TCC-2500 features a seven section, 67.9 metre pinned main boom, which can be further extended with a three piece - 3.6/12.1/ 20.4 metre - bi-fold extension with up to 45 degrees of offset that can be further extended with two 7.62 metre inserts for a maximum tip height of 105.4 metres. Power for the new crane comes from a Tier 4 Final Cummins diesel. The matching main and auxiliary winches feature extra wide drums that allow it to handle its maximum permissible line pull of almost 13 tonnes through the fourth layer of rope and the rear mounted

auxiliary winch can be quickly removed to reduce transport weight. Maximum line speed is 123 metres a minute.

The TCC-2500 can self-unload and self-install its tracks and counterweight thanks to its standard jacking system with wireless remote controls. Full working track width is 6.21 metres, while twin bar grouser track pads have standard nylon pad inserts for use on more sensitive ground surfaces. The new crane can pick & carry its entire load chart and comes with load charts for slopes of one, two, three and four degrees.

The operator's cab tilts up to 20 degrees and features a new 10 inch full colour touch screen crane interface which incorporates both rated capacity limiter, telematics system, ground bearing calculator and engine data. The display can

be used when wearing gloves and be seen in direct sunlight. Operator visibility is helped by four cameras giving a rear view, blind-side swing view and two individual winch view cameras.

When transporting between jobs, the main part of the crane - less counterweight and tracks - weighs 48.6 tonnes, while the nine-piece superstructure counterweight totals 69.8 tonnes. This allows the entire crane to be transported across most states in eight trailer loads, all seven component loads weighing no more than 20 tonnes.

Grove 30 tonner

At the opposite end of scale Grove recently unveiled its smallest telescopic crawler to date - the 30 tonne GHC30 - with deliveries scheduled from this summer. The new model joins the current three model range that includes the 50 tonne GHC55, 70 tonne GHC75 and the 120 tonne GHC130 with boom lengths up to 40 metres. All four cranes are built by Sennebogen in Germany and are currently only available in the Americas, sold through the Grove/Manitowoc dealer network and fully supported by Manitowoc Crane Care.



The fully assembled GHC30 can be transported on a single truck

and 6113. All three can pick and carry 100 percent of their load chart through 360 degrees, making them ideal for applications such as utility projects. A variety of attachments are also available including an auger and pole claw.

As with the 50 tonne Grove GHC55 - which was launched in 2015 a few months before Sennebogen unveiled its own version the 653E - it is likely that the company will shortly announce its own version of the 30 tonner as it does not yet have an equivalent model in its range.



A 16 tonne SWTC16B Sunward telescopic crawler



The Link-Belt TCC-2500 can be transported in eight trailer loads



A Liebherr LTR 1100 ready to work

Sennebogen has been building heavy duty telescopic crawler cranes for more than 20 years and has its own range of six models with capacities from 16 to 120 tonnes. It entered into the long-term strategic partnership with Manitowoc/Grove just over two years ago. The three larger Grove cranes are based on Sennebogen's standard 653, 673



Liebherr LTR 1100

The GHC30 features a three section 25.2 metre main boom with an optional 6.5 to 13 metre offsettable swingaway extension, taking the maximum tip height to 40.2 metres. It can pick & carry 100 percent of its load chart through 360 degrees and lift on slopes of up to four degrees. The crane has an overall transport width of three metres, is 10.6 metres long, with an overall height of just three metres and a tail swing of 3.3 metres. The tracks can be hydraulically extended and retracted and have three working widths of three metres, 3.75 metres and 4.5 metres with 700mm pads.

The fully assembled crane can be transported on a single truck, ready to work immediately it is unloaded. The 15 degree tilt cab features air suspension, heated seat and climate control system, a seven inch screen shows views of the hoist, rear and right side camera images and a graphical RCL system. Two engine options are available - a Tier 4 Final Cummins with a Tier 3 model for international markets where required.

Product manager for Grove GHC cranes John Bair said: "We talked to a number of dealers and customers about the telescopic crawler line and about how we could expand the range to benefit certain applications. Customers in utility, energy, construction and barge mounted work for example, indicated that a crane with a smaller footprint, which was easy to transport and offered 100 percent pick & carry ability with a robust, full power boom would help increase efficiency on many job sites."



A telescopic crawler working with a demolition excavator

Smaller capacity telescopic?

Given the growth in the larger capacity telescopic crawlers it is surprising that the smaller crawler cranes have not caught on more rapidly. Perhaps this is because of the wider availability and range of spider cranes from manufacturers such as Maeda, Unic and Jekko?

Even the smallest mini crawlers are heavier than spider counterparts, due to their more compact footprint and lack of outriggers. They also include an operator's cab, can pick & carry their full load chart and set up in confined areas, while a spider crane's footprint is huge in comparison to its compact travel dimensions. Over the years, there



UK-based AGD Rentals has been supplying telescopic crawlers such as this IHI CCH300T for more than 20 years

have been numerous manufacturers of mini telescopic crawler cranes including Maeda, Marchetti, IHI, Sennebogen and Hitachi.

AGD Rentals based in the UK claims

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Sunward showed its new five tonne capacity, 15.6 metre boom SWTC5C with Tier 4 final engine at Conexpo

to have been a pioneer in the European mini crane rental market. It is now more than 20 years since it purchased its first 30 tonne capacity IHI CCH300T which proved popular with construction, civil engineering and piling contractors. But while the CCH300T - and its 50 tonne brother the IHI CCH500T - were popular, AGD has been gradually replacing them with new telescopic crawlers in the 25 to 80 tonne capacity range - most with tilting cabs for improved visibility, ideal for work on road, civil and utility contracts.

Three new five/six tonners

Over the past few months three manufacturers - Maeda, Sunward and Jekko - have launched new mini telescopic crawler cranes in the five/six tonne capacity range.

In recent years the Maeda LC series has led the market, originally available with three, five and six tonne lift capacities (the LC385,



The Jekko SPK60 features extendable tracks, zero tailswing and can pick & carry three tonnes

LC785 and LC1385 respectively). This range has been redesigned and rebranded as the CC series, reflecting the fact that Maeda is now using its own tracked undercarriage, moving away from one supplied by Komatsu. Maeda's new CC1485S-1 is an upgraded version of the LC1385 but still retains the six tonne maximum capacity at 2.6 metres and its 16.3 metre five section boom. However the CC1485 uses a heptagonal shaped boom and is 100mm lower at 2.86 metres. Overall weight has also been reduced by more than a tonne to 14,400kg - with rubber track pads - and features the new Stage 3B engine which is said to be 40 percent more efficient. Overall dimensions are very similar but the tail swing has been reduced by 50mm on the new model and its pick & carry capacity remains at two tonnes. Other new features include a new seven inch monitor with LMI and greater space for the operator by removing floor mounted travel pedals.



Maeda's new CC1485S-1 is an upgraded version of the LC1385 but still retains the six tonne maximum capacity at 2.6 metres and its 16.3 metre five section boom

Sunward's new crawler

Last year's Vertical Days show saw GGR unveil a small telescopic crawler crane from Chinese equipment manufacturer Sunward, that it hopes will help it break into the European market. The original model was not the right specification and it was back to the drawing board for Sunward. The new crane will feature on the GGR stand at this year's Vertical Days this month and is hopefully an indication that the new version ticks all the boxes. The new crane, the 4.6 tonne SWTC5C, is the smallest crawler crane in a six model range that includes a 16, 26, 35, 55 and 75 tonner. The SWTC5C features a lightweight hexagonal five section 15.6 metre main boom and is powered by a Yanmar Euro IV engine. Sunward says that it plans to add a three tonne and a nine to 10 tonne model at the end of next year.

Jekko SPK60

Jekko has also introduced its all-new six tonne capacity SPK60 mini crawler crane with the optional four section telescopic luffing jib, giving a maximum tip height of almost 28 metres. Maximum radius with the jib is 19 metres. The Italian company was formed 15 years ago as a division of Ormet to develop special spider cranes for the international market which it sold under the Imai brand. It then launched a new range of standard models under the Jekko brand in 2006.

The new SPK60 mini crawler crane has several features not usually found in this size category such as extendable tracks to increase

stability and capacity and zero tail swing allowing the machine to work more easily and safely in restricted spaces. The crane can pick & carry up to three tonnes.



With the optional four section telescopic luffing jib, the SPK60 has a maximum tip height of almost 28 metres



Jekko SPK60 cab and remote.



How the new small capacity crawler telescopic cranes compare

	Maeda CC1485S-1	Jekko SPK60	Sunward SWTC5C
Max capacity	6.0t @ 2.6m	6.0t @ 2.0m	4.6t
Boom length	16.26m	17.7m	15.6m
Weight	14,400kg	13,760kg	10,904kg
L x W x H	6,460 x 2,490 x 2,865mm	5,866 x 2,320 x 2,639mm	5,133 x 2,492 x 2,797mm
Max boom & jib	22 m	27.5m	16.12m
Pick & carry cap	2 tonnes	3 tonnes	n/a
Engine	Stage 3B - 40kW	Stage 3B - 53.7kW	Euro IV - 46.2kW
Tail swing radius	1,550mm	1,465mm	1,461mm
Extendable tracks	No	Yes to 2.9m	No

Another feature is that it can be fully operated - including travel - by remote control allowing the operator to be out of the cab and in the most advantageous position for the work being carried out. The SPK60 can be fitted with several optional attachments, which are automatically recognised by the LMI and loads the relevant load chart to the display. The cab features two video cameras for a better view of the working area and a customisable control system.

Major changes have been taking place at the company over the past three or so years and with a growing product line, year on year

growth is currently 30 percent. This year it hopes to ship around 300 cranes and move into a new 15,000 square metre facility - 50 percent of which is covered.

The Sunward has a lower maximum capacity than the other two, with a substantially lower overall weight and most likely lower duties through the load chart. On paper the Jekko with its longer boom, greater overall reach and compact dimensions comes out on top.

Tadano adds two more global Mantis crawlers

Tadano Mantis unveiled two new telescopic crawler cranes at Conexpo - the 60 tonne GTC-



Tilt wall construction with a Link-Belt TCC-2500



Tadano Mantis unveiled two new telescopic crawler cranes at Conexpo - the 60 tonne GTC-600 (above) and 80 tonne GTC-800

600 and 80 tonne GTC-800. Both new cranes have been designed to "meet the needs of the power transmission, bridge, civil and

foundation sectors while expanding the broader appeal of the crane toward the lift crane markets". Both cranes use the purpose

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Empire Crane placed an order which included the Tadano Mantis GTC-800 at Conexpo

designed, Tadano round profile telescopic boom with Tadano winches, jib, hydraulic cylinders, AML-C load moment indicator and Hello Net telematics. Currently only the GTC-800 is CE marked. With Japanese built booms and Tadano design and quality criteria justifying the G designation, we might see the company begin to offer a wider range of these heavy duty telescopic crawlers through its global distribution network.

The larger GTC-800 is already proving very popular with orders placed at Conexpo by US companies Empire and Scott Macon. Empire founders Luke and Paul Lonergan said: "Having seen an increase in rental utilisation and quoting activity with the Tadano Mantis product, we saw the need to position ourselves to better meet the customer's requirements in the Northeast. The new GTC-800's market leading boom length on a crane under 100 tons, along with cutting edge features such as Opti-Width and superior out-of-level charts, make the GTC-800 a definite winner in comparison to the competitors."

The GTC-600 features a full power, four section 36 metre boom, while the GTC-800 is 43 metres. Both cranes offer an optional 10.1 to 17.7 metre bi-fold swingaway extension with offsets of 3.5, 25 and

45 degrees. Maximum tip height is 55.5 metres on the GTC-600 and 60.4 metres on the GTC-800. There is also the option of a 2.5 metre heavy lift jib with a 20.3 and 21.4 tonne maximum capacity that offsets at 3.5 and 30 degrees. The cranes have automatically selected out of level - up to four degrees - variable width load charts and full chart pick & carry capability. The 'level' ground load chart is for slopes up to 1.5 degrees.

Both cranes feature Tadano-Mantis' Opti-Width asymmetric track position allowing them to work on a reduced track width on either side, with the position of each track continually monitored by the crane's AML-C system, which sets the optimum load chart for the track positions. The tracks can easily be extended and retracted and the crane can operate in any position. When tracks are set in the middle width, a zoned load chart is said to give up to 50 percent higher capacity than the same track width when in the symmetrical mid track position.

Both cranes are powered by the same Cummins Euro stage IV diesel, while options include a 340kg capacity boom mounted work platform giving a working height of 40.7 metres - almost 50 metres on the extension - and a boom mounted auger system for variable radius drilling.

Chinese crawlers

While Chinese manufacturers are happy to churn out lattice boomed crawler cranes, very few of the major manufacturers produce larger telescopic crawlers. One exception is XCMG with its three new XGC series cranes which includes the 25 tonne XGC25T, the 55 tonne XGC55T and the 100 tonne XGC100T.

A quick comparison of the XGC100T with the Link-Belt TCC 1100 reveals

	XCMG XGC25T	XCMG XGC55T	XCMG XGC100T	Grove GHC55	Link-Belt TCC 1100
Max capacity	25t	55t	100t	50t	100t
Boom length	33m	41.4m	55.6m	30.4m	45.7m
Weight	34.9t	61.2t	104.6t	45.8t	101.2t
L x W x H	12.8 x 2.95 x 3m	12.7 x 2.98 x 3.1m	14.74 x 3.9 x 3.46m	10.7 x 3.5 x 3.18m	15.33 x 3.63 x 3.87m
Max system length	41.15m	57m	74.1m	45.4m	64.3m
Extendable tracks	No	Yes to 4.8m	Yes to 5.9m	Yes to 5m	Yes 5.53m



XCMG has three new XGC series telescopic crawler cranes - this is the 100 tonne XGC100T.

that on paper at least, the XCMG performs well. It has 10 metres more main boom, a more compact overall length, lower overall height but a wider extended track width. The Link-Belt is however slightly lighter and narrower and has a more powerful engine. In fact the XGC cranes all have very good main boom lengths - the XGC55T has a 11 metre longer boom than the Grove GHC55 - although it is 15 tonnes heavier.

New 65 tonne Hitachi Sumitomo

Yet another new crane is the 65 tonne Hitachi Sumitomo 650TLX. Only brief details have been released so far, but they include a four section 30.1 metre hexagonal profile main boom designed to be strong enough for foundation work. As such the crane features a hydraulic system that can cope with cycle work attachments such as augers and vibro pile drivers, and offers a third winch with free fall option. The overall transport

width is 2.99 metres and the crane can completely self-assemble. Also worth a mention are the Italian-built cranes from Marchetti and TCM. Unusually both manufacturers offer crawler telescopic cranes with outriggers, improved lifting performance for their weights. Piacenza-based Marchetti produces two cranes - the 70 tonne Sherpa 70.42L and the 25 tonne Sherpina 25.35 - the Sherpa having outriggers allowing it to set-up and level, with a 200 percent higher lift capacities than if working on a four degree slope. TCM has four telescopic crawler cranes from 28 to 70 tonnes capacity with two - the 35 tonne RTC 35 and 70 tonne RTC 70 - having hydraulically extending outriggers.



Yet another new crane is the 65 tonne Hitachi Sumitomo 650TLX

The 25 tonne capacity XCMG XGC25T



TCM's RTC35 has outriggers improving lift capacities

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Low bridge ahead



When US-based contractor Malcolm Drilling was faced with working under a low bridge to drill caissons for a new five-span welded steel box girder bridge project in Glenwood Springs, Colorado, finding the right machine required considerable time and effort. It eventually decided to use a 100 tonne Link-Belt TCC-1100 telescopic crawler crane for the work.

The contract to replace the old Glenwood Springs river bridge which dates back to 1953, involved constructing 26 caissons - drilling a shaft 16.4 metres deep then lowering the rebar cage into the hole before filling with concrete. The resulting piles support the concrete pier caps for the new bridge. The TCC-1100 was chosen because it could pick & carry the 25.4 tonne hydraulic casing oscillator under the existing bridge with an overall headroom height of just 10.9 metres. Once under the bridge the equipment was lifted into place to carry out the caisson construction. When constructing some of the caissons the clearance between the boom head and the girders was just 230mm. The second critical crane requirement was being able to lift a 13.6 tonne rigged pile starter section up and over the oscillator before drilling the shaft.

Access to the jobsite comprises a back-filled access road no more than 13.7 metres wide along the Colorado River and under the bridge. The TCC-1100s boom tip, load capacity and height specifications were key consideration in the crane selection.

Malcolm Drilling superintendent Todd Williams said: "We were constrained with no extra room to move, get the drill spoils out of the way, get the rebar cages to the Link-Belt crane, or to even physically swing and work around ourselves. With so much equipment in such a small space means watching each other's back continually, especially as the concrete was poured after the rebar cages are placed. While pouring continued, the oscillator worked the casings up until the TCC-1100 grabbed and lifted them out of the way."



Working with the piling rig

The new bridge will cross the Colorado River, Union Pacific Railroad and four lanes of Interstate 70 and is scheduled to be completed in May 2018, helping alleviate traffic congestion coming off the scenic I-70 Interstate west of Denver into downtown Glenwood Springs.



Clearance under the existing bridge was less than 250mm at times

Big toys for big buoys

The Tönning Water and Shipping Authority is responsible for the safety on the North Sea waterways along the west coast of northern Germany. This also includes maintaining the large conical-shaped navigation buoys weighing up to six tonnes each that mark the shipping lanes in the water.



The Sennebogen 643 is used to manoeuvre all buoys at WSA Tönning



The buoys need to be cleaned bi-annually on board a buoy tender ship to remove barnacles, mussels and plant growth. However, if the buoy has been in the water longer or has attracted more barnacles and plant growth its weight in increased and so it sits lower in the water and is more

difficult to see - then they are removed completely for repair and repainting.

The authority is using a 40 tonne Sennebogen 643 telescopic crane to unload, move, help dismantle for sand-blasting and painting and store the buoys in a facility in Tönning.



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Spiders are buzzing

Over the past few years spider lifts have become one of the most exciting and innovative sectors of the aerial lift market. Although one or two Chinese manufacturers have dipped their toe in the market, European companies dominate the market with more than 98 percent of all spider lifts shipped last year coming from - at the last count - 26 European producers. There has been a lot of activity over the past year or so, with at least one new entrant, two takeovers, lots of new models and some major new fleet investments, so it is difficult to know where to start.

It is always interesting to cover a new entrant into the market, particularly when it is an established manufacturer branching out into a completely new sector. The latest to enter the spider lift arena is Palfinger which took many by surprise when it launched the 15 metre P150 AJTK at Bauma last April. In hindsight, the addition of a new spider range was fairly predictable following the acquisition in 2013 of a controlling stake in SkyAccess rebranding it as Palfinger Italia. Its aim was to design and produce a more cost-effective, simpler range of small truck mounted platforms to take on the cost-competitive Italian-built products mounted on 3.5 tonne chassis, the traditional route into the spider lift market.

At the same time fellow German truck mounted platform manufacturer and arch rival Ruthmann also announced its entry

into the spider lift market, taking a 60 percent stake in Italy's Marti group, owner of Bluelift spider lifts and RAM 3.5 tonne truck mounts. Given the copy-cat rivalry between the two companies, the news was almost inevitable!

The P150 AJTK is a typical smaller 'Italian' spider with an overall width of 800mm and capable of clearing a two metre overhead restriction. Features include a two-entry point, side opening basket with retractable steps and power is either diesel, petrol or electric. Its unusual tow hook option can be used to attach a trailer for tools, work equipment or materials.

A year on and Palfinger is adding a second model to the range - the 17.7 metre working height P180 AJTK. According to Palfinger Italia's managing director Paolo Balugani, the 15 metre P150 is now in production and two further models will follow the P180 - with 21 and



The Palfinger P150 is to be joined by the 17.7 metre P180



Palazzani will provide branded spider lifts above 25 metres to Palfinger

25 metre working heights - which will complete the range. The four-model range will use the basic lift mechanisms and components from its 3.5 tonne Smart truck mount line. The P150 and P180 both feature dual sigma type risers, two and three section telescopic booms and articulated jibs. Booms, cylinders and major components will be manufactured by Palfinger around Europe, mostly at its facilities in Bulgaria, with assembly at Palfinger Italia's head office in Modena, northern Italy.

But what about the 30 metre plus market?

Unlike Ruthmann and Bluelift - which has a wider existing range - from 12 to 26 metres - Palfinger Italia surprised everyone last September by signing an agreement with fellow countryman Palazzani to provide branded spider lifts above 25 metres with key changes to differentiate between the products that the two companies sell. This could potentially mean a further 10 Palfinger spider lift models, ranging

from 27 to 52 metres. Although this looks like a win-win situation for both Palfinger and Palazzani, Palfinger will have to be very careful that it maintains its level of product support that customers have come to expect with its other products. JLG for example, also followed the badging route for its range of spiders working with the leading spider lift manufacturer Hinowa. While Hinowa has a very good reputation for product support, JLG still had to invest heavily to ensure that all of its after-sales departments supported its spider lift range in exactly the same way as for the products it manufactures itself, a major undertaking.

Teupen Puma

Although the Puma 42GTX was launched just over a year ago it would be remiss not to mention what is probably the most unusual and interesting spider lift produced so far. The Puma combines the articulated boom and frame superstructure from the 40 metre Teupen Leo40GT spider lift, mated



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The Teupen Puma 42GTX is probably the most unusual and interesting spider lift ever produced



The Puma 42GTX has 42.7 metres working height and 16.7 metres outreach

to the Swiss-built Menzi Muck M545 4x4 self-levelling walking spider excavator chassis. The end result is an amazing, go-anywhere platform with 42.7 metres working height, 16.7 metres outreach and a maximum capacity of 400kg - 300kg at maximum outreach.

The lift uses the twin telescopic booms with four lower riser sections and a three section top boom plus short articulating jib. Weighing 17.6 tonnes the Puma has a travel speed of 10kph and can wade through 1.2 metres depth of water.

Overall dimensions are 9.2 metres long, 2.48 metres wide and three metres high. The Puma - developed in partnership with four prospective buyers - can also be used with a reduced working height of 29.7 metres as a fully self-propelled boom lift. In this configuration the chassis is levelled with all four wheels operating at the same level. This would be something like JLG's new auto levelling boom concept displayed at Conexpo which uses a JLG 460J superstructure mated with a self-levelling chassis capable of levelling.

On the Puma 42GTX the boom pivot point is located onto a patented adapter that connects to the standard excavator pivot and raises the boom clear of the machine and its moving legs. This allows a high degree of articulation so the unit can travel, walk and climb over all manner of terrain with the centre of gravity moving freely between the four wheels to ensure ideal balance and safety. The current chassis will allow for further models to be developed up to about 54 metres.

Full controls are located in the platform and all electronics and systems are Teupen designed and assembled and fully integrated. The technology includes automatic boom stow and return along with full diagnostics on a large in-cab screen.

The Puma 42GTX is not cheap costing about twice that of a Teupen Leo40 spider lift and is aimed squarely at a variety of specialist applications, from remote pylon replacement and repair, tree maintenance along railway lines and cuttings to working on steep slopes, cliffs, quarries or in ports - anything on rough and/or hard to reach terrain.

One of the first companies to purchase the Puma is the UK's largest specialist spider lift rental company Higher Access which was acquired by rental group Vp at about the same time. Higher Access initially took delivery of two Pumas, part of the 10-15 or so anticipated annual worldwide sales forecast by Teupen.

As well as the Puma, Teupen has five new T-series models from the 19.2 metre Leo19T to the 35 metre Leo35T. All are available with its latest high strength steel booms, with all cables, hoses and hydraulic cylinders routed internally - on a 1.58 metre wide chassis. The three largest models - the Leo27T, Leo31T and Leo35T - will replace the Leo25Tplus, Leo30T and Leo36T.

The new T-series Teupens have high strength steel booms, with all cables, hoses and hydraulic cylinders routed internally.



All-new T series lifts have a 250kg maximum platform capacity with the Leo35T having a maximum outreach of 19.9 metres with 80kg. Other features include height and width adjustable tracks - hydraulic adjustment is optional. This feature, previously only available on the larger GT models, is now also available on the Leo18GTplus. Teupen will also launch the Leo 21GT later in the year, again with 250kg platform capacity and 12 metres maximum outreach.

Why are spider lifts becoming so popular?

With its rubber non-marking tracks, variable widths, levelling capability and multiple power sources, you might be forgiven for thinking that

the spider lift is a 'jack of all trades' platform, suggesting that it only does everything adequately but this could not be farther from the truth and is more than a little unfair as the spider lift is actually the best machine for so many applications and apart from the needs of its outriggers, has very few down sides.

Often the main problem for many mobile work platforms is getting close to the point of work. The spider lift's compact dimensions and low weight not only helps make it easier to transport - with models up to about 22 metres able to be towed behind a 4x4 on a standard equipment trailer - but it also means that it is also able to travel down narrow aisles or passageways, through standard doors, up and down stairs and steep inclines and can cross some of the roughest terrain. And then once in position the outriggers can level the machine up even on very significant slopes. One of the spider lift's few downsides is that while it can drive into very tight situations, it does need considerable space to deploy its legs, although models with variable leg positions help with this. Spider lifts are also among the first aerial work platforms to incorporate lithium ion battery power, often in conjunction with an internal combustion engine to create a type of hybrid machine.

When working indoors their relatively low weight and crawler undercarriage results in a low ground bearing pressure and the non-marking tracks allows them to

The spider lift's go anywhere capability means it is becoming the platform of choice for a number of specialist applications



Ommelift's new 18.40 RXJ



operate without damaging delicate floors or surfaces. This go anywhere ability means that the spider lift is becoming the platform of choice for a number of applications from window installation to bridge inspection and tree care particularly with local authorities and public utilities.

Delivery safety issues

As IPAF accident statistics reflect, loading and unloading platforms is the most dangerous activity when it comes to injuries. Spider lifts - due to their narrow stowed width and relatively high centre of gravity - are particularly prone to toppling over sideways, particularly when travelling down ramps and across slopes. A classic example of this went before the UK courts last September when company director Kenneth Thelwal was jailed for 12 months, following the overturn of one of the company's 18 metre spider lifts in January 2014. The machine landed on delivery driver Paul Williamson as he walked alongside the lift using the remote controls to track it to his truck. The investigation revealed that Williamson had not been adequately trained in the use of ramps, the delivery truck or for the new spider lift. The gradient of the ramps were greater than the manufacturer's specification and they were not properly secured to the truck.

Rampless loading/unloading

One solution to the problem of loading and unloading larger spider lifts adopted by companies such as Ommelift, TCA, Teupen and more recently CMC are high lift, high clearance outriggers which raise the machine to a sufficient height and width to allow a trailer to be reversed underneath so that it can then lower itself onto the truck bed. To unload the process is simply reversed.

Teupen has taken this one step further with its purpose-built transport frame which can be specified for transport vehicles up to 10 tonne GVW. CMC has recently launched a new self-loading outrigger system for its 32 metre S32 spider lift. The design incorporates 425mm long pinned extensions which fit within in the lift's outrigger legs to give the machine additional jacking height up to a clear under track height of 1.3 metres with sufficient width to allow a trailer to be reversed underneath.

The leg extensions - made from high strength steel - are connected with two pins on each leg and an internal retention cable. A system of waterproof magnetic safety sensors prevents the machine's boom from operating with the extensions extended in what the company refers to as 'Auto Loading' mode.



The new auto loading jacking system on the CMC S32 provides 1.3m clearance under the machine

New entry level Hinowa

Hinowa is set to launch its new 13.3 metre Lightlift 13.70 Performance IIIS at Apex and Vertikal Days this month. At the bottom end of the spider lift working height range, the new model is entering an interesting sector that appears to be regaining popularity. When spider lifts first appeared on the market 12 to 14 metre machines were the big sellers, but when manufacturers began to offer an extra boom section to take the work height to 15 to 17 metres, sales of the smaller units dried up. With new features and a more mature market, buyers are rediscovering the smaller machines, which are still more than capable of handling a large slice of the day to day applications.

The Lightlift 13.70 has an overall length of just 3.28 metres - with basket removed - an overall width of 870mm and is less than two metres high. Maximum outreach is a little more than seven metres and it has an unrestricted platform capacity of 230kg. Its outrigger

footprint measures 2.8 metres square and power options include a Honda iGX390 petrol/propane, a Hatz 1B40 diesel or Hinowa's lithium ion battery pack option. Standard features include gradient control, which automatically decelerates the tracked undercarriage when driving on potentially hazardous slopes, built-in fork lift pockets, lifting eyes on the outriggers, the innovative RAHM control and diagnostics system for remote diagnostics and troubleshooting, real time GPS tracking, while a range of optional extras include a wider, two-speed undercarriage with extending tracks.

The 13.70 is also the first model to feature Hinowa's version of the JLG SkyGuard secondary guarding system, which will eventually become standard equipment across the range, while a new basket option features rounded corners and is said to help with positioning the unit close to walls and with delicate manoeuvres say when working in trees.



Spider lifts - due to their narrow stowed width and relatively high centre of gravity - are particularly prone to toppling over



The 13.70 is also the first model to feature Hinowa's version of the JLG SkyGuard secondary guarding system



Boels has recently purchased several Easylift spiderlifts



Hinowa is set to launch its new 13.3 metre Lightlift 13.70 Performance IIIS

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Hinowa 17.75

Spider lift rentals on a national basis

Hinowa is the world's largest spider lift manufacturer and is experiencing growth in both its own sales and increasing volume through JLG. Product dipped substantially during the recession but has now bounced back and is reaching new levels. The company recently became the supplier of smaller spider lifts to the UK's largest aerial lift rental company Nationwide Platforms, supplying 56 spider lifts this year, following an initial order for 36 machines last year. We understand that another large order may be pending. This will give Nationwide a fleet of more than 100 Hinowas including the 15.4 metre 15.70, 17 metre 17.75 Mk 2, 20 metre 20.10 Mk 2 and the 25.7 metre 26.14. It has also ordered eight 31 metre Teupen Leo31Ts.

This is a major U-Turn for Nationwide, following a decision four years ago to divest itself of all of the spider lifts that it had gained through acquisitions etc.. preferring to re-rent from a specialist spider lift rental company - mostly Higher Access. Nationwide Platforms operations director Peter Douglas said its new 'tracked boom' division has been a fantastic success since launching last year. Originally it focused on the south east region with its initial 36 machines based in Luton but is now expanding the division to provide national coverage this year.

A JLG X430AJ



Narrow width

Overall width of any aerial platform is important however for spider lifts the ability to track through doorways and down corridors is part and parcel of their raison d'être. The smaller spider lifts - and some specialist larger machines such as those from TCA - are designed to pass through single doorways, with overall widths in the region of 800mm, while the 26 metre Hinowa has a width of 990mm, and the new 31 metre Teupen Leo is 1.58 metres. The 27 metre Platform Basket Spider 27.14 is therefore an attractive proposition at 890mm, which it claims is the narrowest 27 metre platform on the market.

The tracks will extend to 1.29 metres for improved stability when space allows. It does though come with a hefty overall weight of just over five tonnes. The Spider 27.14 has a double sigma type riser, three section telescopic boom and articulating jib, providing 15.1 metres of outreach, 10 metres up and over height, 230kg maximum platform capacity at up to 12.7 metres

Hinowa produces machines for JLG in North America





The Platform Basket 27.14 is just 890mm wide

- 136kg at full reach, a narrow outrigger setting 400 degrees of slew, radio remote controls, lithium ion battery back and hybrid power and a fibreglass basket option which is now available on all Platform Basket spiders - predominantly to meet demand from arborists.

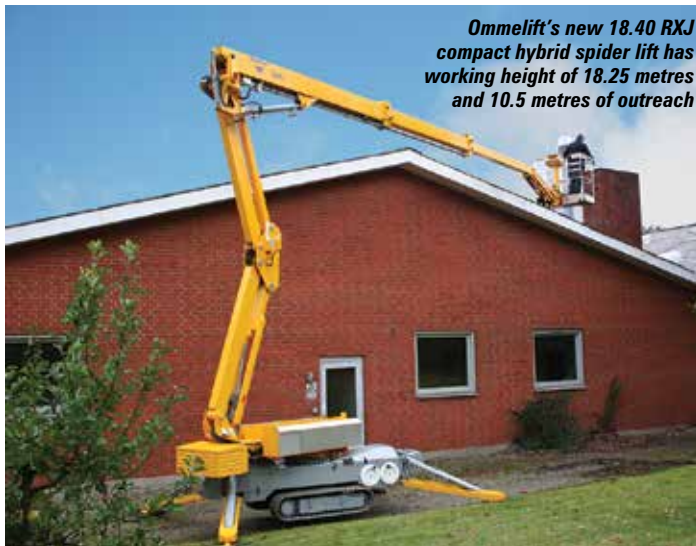
Platform Basket intends to use a similar 890mm wide chassis on its new 30 metre Spider 30T which it is planning to launch later this year as well as having a lower overall weight than the 27 at 4.3 tonnes. Details leaked prior to the launch suggest the lift has a new design which allows the jib to be stowed

under the main boom without removing the basket, resulting in a very compact transport length. Also all hydraulic and electrical lines will be routed through the boom to avoid damage particularly on tree care work. Other features include full radio remote control with auto outrigger set up and automatic boom stowage.

Platform Basket has also introduced a hoist/winch option on the 27.14 and 22.10 to allow them to be used for material handling work, and now offers the lithium ion battery pack option on every spider lift in the range.



ATN's new Mygale 23



Ommelift's new 18.40 RXJ compact hybrid spider lift has working height of 18.25 metres and 10.5 metres of outreach



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The Ommelift 18.40 RXJ

The smallest Platform Basket is the 13.4 metre Spider 13.80 super compact lithium-hybrid model with eight metres of outreach, a 2.9 metre wide working footprint. Other model improvements include the Spider 18.90 PRO with fibreglass bucket platform, radio remote controls, two speed tracking and auto set-up.

Ommelift hybrid

Ommelift has launched a new compact hybrid spider lift - the 18.40 RXJ - with a working height of 18.25 metres and 10.5 metres of outreach with 200kg platform capacity. The unit is 4.85 metres long when stowed, with an overall width of 790mm and is just under two metres high.

The hybrid lift has an engine and battery power with automatic re-charging of the battery pack when the engine is running. Continuous re-charging is also possible using an on-board charger which continues charging even during lift operations. In order to be reliable during long-term usage a back-up transformer for direct mains connection is

included. This provides the user with a variety of options for working both indoors and outdoors. The 18.40 RXJ articulated riser extends vertically in a perfectly parallel line and has a good up and over outreach. An end mounted platform leaves the underside of the platform clean, avoiding the damage which often occurs with pedestal mounted platform connections.

Octopus 23

Oil&Steel was one of the first companies to introduce the spider lift concept to a wider range of rental companies and end users, with its Octopussy range around the turn of the millennium. Some product and corporate challenges a few years back resulted in it losing market leadership and falling behind. But the company, under new ownership with Manitex is making a comeback with several spider lift families, including the Twin, Classic and Evo which are all in the 14 to 18 metre range, as well as the 21 metre Octopussy 2190. Its latest and largest spider to date is the 22.3 metre Octopus 23



Oil&Steel's largest spider to date is the 22.3 metre Octopus 23



Ommelift 2750RX



The Teupen Leo 18GT Plus has extendable tracks

23, with an outreach of 11.5 metres and 200kg unrestricted platform capacity. Overall stowed width is 990mm and it weighs around three tonnes. A special feature is the jib with can rotate by up to 45 degrees either side of the main boom. When coupled with the platform rotation it allows the operator to reach around obstacles or access more difficult areas without moving the machine base. The basket also has water and compressed air outlets and the chassis has one-sided height adjustable tracks for travelling on side slopes etc.

New and unusual

With the total number of manufacturers producing spider lifts nearing 30, there are several that are new or only sell in certain markets. Vertical Days will see two of these - French access specialist ATN with its new Mygale 23 and

Finland's Leguan with its unusual tracked or wheeled skid steer chassis.

ATN's first and only model, the Mygale 23 offers a working height of 22.85 metres and 11 metres of outreach. Since its official launch last year things have been very quiet, although the final production version of the new lift will be displayed at Vertical Days this month, and with a new sales manager on board and Alpha Services in the UK to provide local product support, it will hopefully start to make inroads into the market.

Leguan will also be at the event, with its new 19 metre 190 spider lift with an outreach of 9.6 metres and a platform capacity of 230kg, along with the new 16.5 metre Leguan 165 spider lift which is based on the 16 metre L160. The first L165



Falcon FS330Z

to be arrive in the UK was delivered earlier this year to Timber-Tech Tree Services. The new model - supplied by dealer Central Platform Services - has an outreach of 7.85 metres and 230kg platform capacity. The lift is supplied on a wheeled chassis although it is also available on tracks. The company said that it opted for the wheeled chassis for increased operator comfort and better drive capabilities. However should they require tracks in the future, this model is reasonably straightforward to swap from wheels to tracks.

Multitel

Multitel has expanded on its range of spiders adding the new 17 metre SMX 170 E with Lithium power which has been designed with a transport length of just over three metres and compact enough to fit into a goods lift. The new spider has

up to 7.5 metres of outreach and weighs 2,200kg. Layout is similar to the other SMX spiders with a three section lower and three section upper boom.

The existing Multitel range continues with only minor changes - its largest spider the 'go anywhere' SMX 300 HD now has an upgraded cage payload of 300kg as well as adding some new options. The SMX 250 continues unchanged but according to Multitel is the only 25 metre working height platform on the market that can be towed legally on a trailer behind a 4 x 4 pick-up truck, weighing 2,770 kg including soft ground plates. Most other 25 metre or similar working height platforms, it says, are about 500kg heavier. The 19 metre SHX 190 is an all hydraulic, low-cost spider that is simple to maintain - no electronics - reliable and basic.



The 16.5 metre Leguan L165



Multitel SMX225



The Leguan L165 can swap from wheels to tracks



SPIDER range



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And finally to the Chinese...

Although so much equipment is produced in China, very little sees the light of day outside of the country with only a few manufacturers breaking out into nearby regions, let alone Europe or North America. There are however a few Chinese companies that have shown spider lifts further afield and these include Sinoboom and Goman Lift while Dingli is currently working on a model.

Sinoboom - now producing scissor lifts for JCB - produced its first small spider lift in 2012 and this was to be the basis of a four model range. However currently it has only one model - the 30 metre GTSZ30J with 12 metres of outreach a maximum platform capacity of 200kg - or 80kg at 14 metres, height and width adjustable tracks and remote controls are standard, while overall weight is 4,500kg.

Goman Lift or Hubei Goman Heavy Industry Technology has an extensive range of telescopic and articulated spider lifts from 15 to 53 metres, many of them looking like clones of European models. However its latest model

is the 21 metre X21, articulated lift with twin sigma risers, three section boom and jib, with 200kg platform capacity and 9.5 metres of outreach. The X21 is said to comply with EN280 standards, and has CE approval. Hoses and cable are internally routed, and power comes from either a 220 volt AC motor or diesel options. Overall weight is 2,800kg and stowed width 800mm.

Dingli has also shown a spider lift at the odd exhibition in China as it dabbles with the market. The 19.13 metre GTBZ19AS has an unrestricted outreach of just 4.9 metres with 200kg platform capacity, or 6.08 metres with 120kg. Overall Width is 1.45 metres and up and over clearance 7.69 metres.



Smaller spiders can be towed behind a 4 x 4



Goman Lift has a range of telescopic and articulated spider from 15 to this 53 metre lift



The 19.13 metre Dingli GTBZ19AS has an unrestricted outreach of just 4.9 metres with 200kg platform capacity, or 6.08 metres with 120kg



The 30 metre Sinoboom GTSZ30J

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A whole new experience

Vertikal Days - the leading UK/Ireland lifting event - will be held this year at a new venue at Silverstone, Northamptonshire, in the centre of the world famous Formula One Grand Prix circuit. Once again the show will almost certainly be the largest crane and access exhibition in Europe. All of the major - and the vast majority of the minor - manufacturers will be present, a total of more than 120 exhibitors representing over 260 manufacturers and service suppliers in all, displaying around 500 machines.

If you are in the market for a crane, some lifting gear, an aerial work platform, a loader crane or a telehandler - not to mention all the replacement parts, accessories, and business services to go with them, or are a regular user of such equipment - then Vertikal Days is an absolute must.

The new venue certainly has its challenges in terms of the organisation of the event, but will hopefully prove a practical, attractive and interesting setting for the several thousand visitors expected over the two days. The show has moved back to its May dates so hopefully the weather will be kind. While there are numerous changes and improvements this year, the key principles of the event remain the same with free car parking, free coffee, tea and homemade flapjacks and a free hot lunch.

Learning opportunities

As usual there will be a few short seminars on offer - all free - including a CPA open meeting covering its latest projects including maintenance, inspection and thorough examination of work platforms. The charity My Future My Choice is also back, organising its workshops for school children in partnership with Liebherr. Sessions this year will be held in the Silverstone Heritage pit garages with the students having a guided tour of the show to complete their introduction to the industry.



More ancillary suppliers

This year sees a whole range of new exhibitors offering a wider selection



Lunch menu
 Miles' famous hog roast
 Barbecue stall with burgers and sausages
 Vegetable lasagne
 Salad selection
 Fruit Platter
 Cheese board including Spierings' Cornish Gouda fruit basket
 Sandwich/baguette bar for those in a hurry



pigs from Bovingdon, Hertfordshire. The second barbecue and sandwich kiosk will also be located nearby.

of ancillary equipment and services, from operator training to lubricants, tyres, fleet or site management software, insurance, finance, security systems, safety equipment and below the hook attachments. Many of these are located in the Marketplace which as usual also serves as the Pavilion Café offering tea, coffee and homemade flapjacks all day, with room to meet up, chat or even close a deal.



Catering

With a larger, longer showground this year, a second barbecue and sandwich stop has been added near the Marketplace, while the Main Catering Pavilion will be the main base for lunch. Barry Miles and his team will again be providing the popular Hog Roast with free range



Evening networking event

This year the networking event will be held on Wednesday evening in the Silverstone Wing, built specifically for the Formula One Grand Prix. The well-appointed ballroom/event halls are located above the Grand Prix pit garages and will hopefully add a new dimension to the Vertikal Days event.

Practical details

Venue:
 Silverstone Circuit,
 Northamptonshire, NN12 8TN
 Speed your entrance to the venue by having your badge or invitation ready at the main entrance

Show dates and times:
 Wednesday 24th May 10am - 5.30pm
 Thursday 25th May 10am - 4.30pm
 Coffee, tea and snacks served all-day in the Marketplace. Lunch is served in the Catering Pavilion or Barbecue/Sandwich arena between 12:30 and 14:30

Networking Event: (ticket required)
 Wednesday evening 06:45 - 11:00pm in the Silverstone Wing above the Grand Prix pit garages

How to Register:

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

APS is sponsoring the bottled drinking water at Vertikal Days to celebrate its 30th anniversary, bottles are available in the Catering Pavilion and the Marketplace

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STAND 105/107

*The Snorkel Speed Level can self-level on slopes up to 9° front-to-back and 13° side-to-side.



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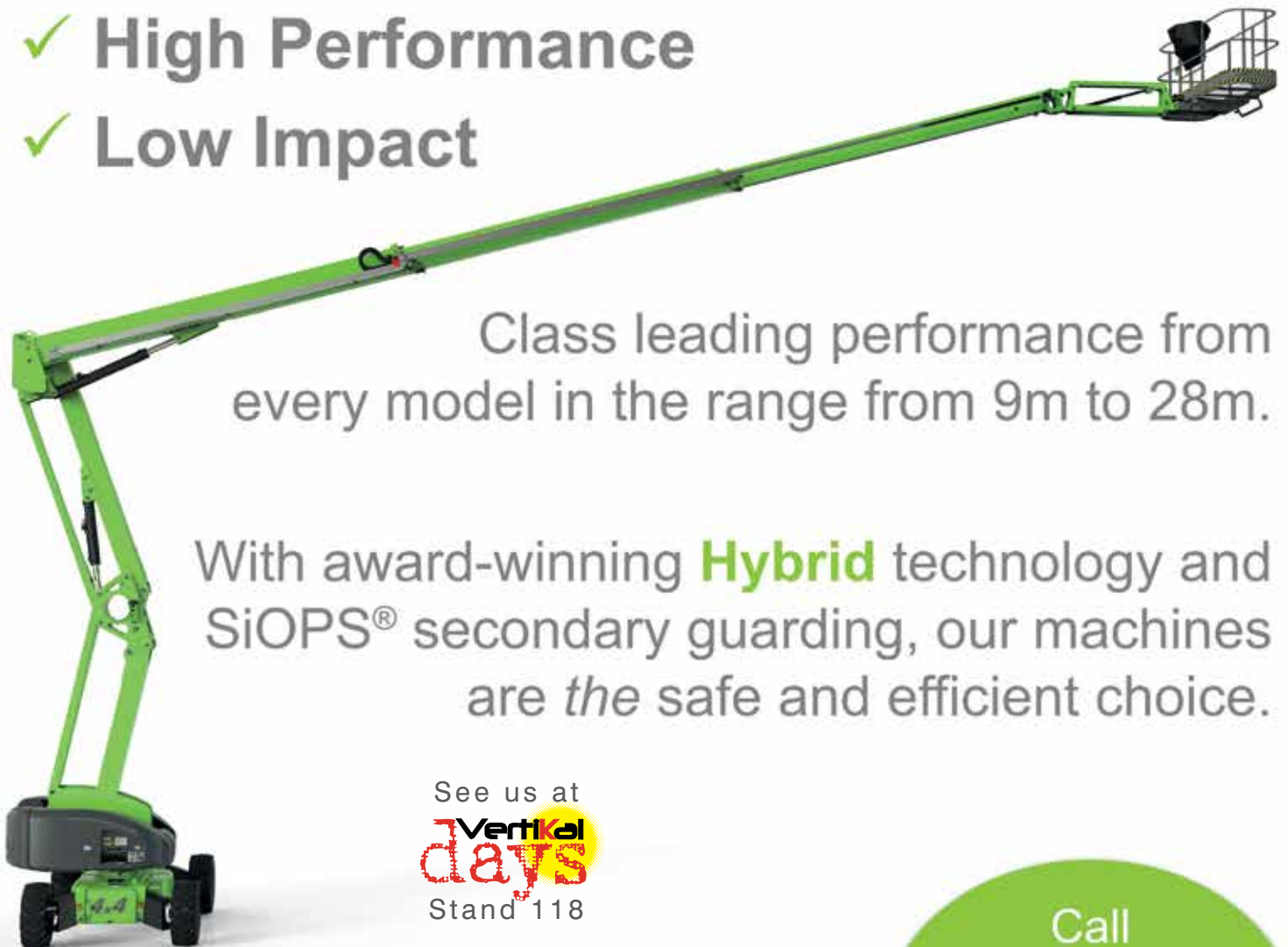
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**Vertical
days**
Stand 118

For more information on the Nifty range, or to arrange a free on-site demonstration, please call **01908 223456**, or visit our website.

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01908 223456
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demonstration

A-Plant: Stand 308

Rental company A-Plant is the official rental sponsor for Vertikal Days and is providing ground mats, fencing, generators and electrical equipment. The company is also exhibiting at the event and will show a 45ft JLG 450AJ and a 26ft Skyjack SJ6826RT scissor lift from its fleet. These will be accompanied by equipment from its specialist safety and lifting equipment division FLG Services and its extensive training division.



Access Industries: Stand 220/1

See Multitel Pagliero

Access Sales International:

Stand 216

Ruthmann distributor ASI will display the new 51 metre Ruthmann T510HF, the highest platform available on a two axle chassis with up to 33 metres of outreach. Joining it on the stand is the 27 metre TB270 on a 3.5 tonne chassis and the new 20 metre Ecoline RS200.

Aerial and Handling Services:

Stand 219

The Airo distributor for the UK will launch two brand new Airo scissor lifts, the narrow aisle battery powered 40ft X14EN and 40ft X14RTD Rough Terrain diesel. The company will also have Airo's largest electric scissor - the 57ft XL19E - on display, as well as a 43ft A15JRTE boom lift, a 26ft X10EN slab electric scissor lift and 10ft platform height XLP5E push-around lift. The company will also demonstrate its deckRailXtra material handling attachments and secondary guarding solutions - Sentinel for boom lifts and S.A.F.E (Self Adjustment From Entrapment) for scissor lifts.



A Plant telehandler

Airo: Stand 219

See Aerial and Handling Services

AJ Access Platforms: Stand 224

As the UK distributor for Holland Lift, AJ will have the 65ft narrow aisle HL-220 E12 battery electric scissor lift with its 500kg platform capacity on the stand, along with the full-width diesel version, the HL220 D25, suitable for high capacity



Holland Lift HL-220 E12 will be on the AJ Access stand

outdoor applications. AJ will also show the 10 metre Manitou 100VJR mast boom with its 3.15 metres of outreach and 200kg platform capacity and a 45ft Genie Z45/25J bi-energy boom lift.

Aldercote: Stand 209

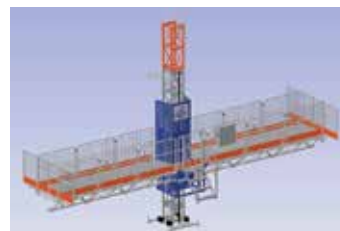
See IAPS

Alfa Access Services: Stand MP21/22

Alfa Access Services is an independent service provider for the powered access industry and is the UK product support provider for Teupen, ATN, Bravi and Denka, specialising in service, repairs, training, LOLER inspections and bespoke installations. It also distributes Gantic battery chargers and a range of non-marking rubber tracks. The company will have a compact Bravi lift on show.

Alimak Hek: Stand 215

Mastclimber and hoist manufacturer Alimak Hek will show the Hek MC 450 mastclimbing work platform which offers deck lengths of 10 to 30 metres for single and twin masts along with the Hek TPL 500 and Alimak Scando 650 hoist range.



Almac: Stand 301/2

See Skyking

APS: Stand 209

Celebrating its 30th birthday this year, APS will host a competition on its stand with twin car simulators where people can race each other

to win prizes. There will also be a fastest lap competition for the competitive ones amongst you!

See IAPS

Ascendant Access: Stand 301/2

See Skyking

ATN Platforms: Stand 104

ATN will highlight its new 12 metre Piaf 12E mast boom with up to five metres of outreach as well as the more traditional 10 metre Piaf 1010 mast boom, 47ft Zebra 16 articulated boom and the production version of its new 23 metre Mygale 23 spider lift.

ATN Piaf 12E



Avant Tecno: Stand 110

See Leguan

Bil-Jax: Stand 205

See Haulotte

Bizzocchi: Stand 214

See CTE UK

Böcker: Stand 304/5

See Kranlyft



Ruthmann TB270

Boss: Stand 209

See IAPS

Bravi: Stand MP21/22

See Alfa Access Services

Bronto Skylift: Stand 117/9

Bronto Skylift will exhibit two 70 metre S70XR truck mounted lifts each mounted on a 32 tonne, four-axle chassis with an overall length of less than 12 metres, European road type approval and more than 36 metres of outreach.



Bronto's 70 metre S70XR

Central Platform Services:

Stand 110

See Dinolift/Leguan

CLM/Maber: Stand 224a

Mastclimbers and hoists.

Co.Me.T: Stand 222b

The Italian manufacturer has a wide range of ultra-compact vehicle mounted lifts that can stow sideways behind the chassis cab leaving the rest of the chassis free for cargo bodies, including bulk bins etc...

CPL: Stand 203/4

CPL - now the UK distributor for Palfinger Italia - will show a new 13 metre Palfinger P130A pick-up mounted platform with 240kg

Co.Me.T X4



The new Palfinger P130A

platform capacity. It will also unveil a new 16 metre platform for 4x4's, along with a 21 metre, 3.5 tonne truck mounted lift. The company also represents Imer/Itenco and will have three aerial lifts from the manufacturer's product line with working heights from 9.3 metres to 15.9 metres. Last year CPL was appointed to handle the new Klubb van mounted lift range in the UK which fits alongside its Terex Utilities products.

CTE UK: Stand 214

CTE will show a new MP - Multi Purpose - 32 metre B-Lift 32.19 MP mounted on a 7.5 tonne chassis with up to 19 metres outreach, which can be operated as a straight telescopic or articulated boom. Alongside it will be a new 20 metre ZED20.2H on a 3.5 tonne Mercedes Sprinter chassis, the popular 21 metre ZED21.2JHV S3 now equipped with the Smart Stability S3 variable outrigger set-up system which automatically adjusts the platform capacity and lifting envelope to match the actual working footprint.



CTE Zed21.2 JHV

Dingli: Stand 113/5

China's leading aerial lift manufacturer Dingli will display a selection of products from its DC

slab electric scissor range including the 45ft/1.2 metre wide 1612DC and the ultra-compact 13ft 0607DCS, 19ft JCPT0807DC, 26ft 1008DC and 39ft 1412DC models. Completing the line-up will be an 11.2 metre AMWP11.5-8100 mast boom.

Dinolift: Stand 110

Dinolift will exhibit a further development to its unusual 66ft 220XSE self-propelled boom lift. The new model features a levelling capability of up to 12 degrees and radio remote controls. The 220XSE also offers remote controlled telehandler duties with a quick-change system between platforms and forks. New options on the machine include the material handling basket and lifting hook mounted onto the standard forks. The stand will also feature a number of self-propelled and towable work platforms together with personnel from Central Platform Services, the Dinolift UK partner.

Easylift: Stand 203/4/301/2

See CPL/Skyking

Faraone: Stand 103

Faraone will demonstrate a range of units from its low-level, self-propelled and push around ranges including its award-winning portable models which do not require hydraulic systems or wiring, but rather use a hand-held battery powered drill or hand crank.



Faraone

Gehl: Stand 208

See Manitou UK

Genie: Stand 112/4

Genie will display its new 135ft SX-135XC self propelled telescopic



Dingli AMWP11.5-8100 mast boom



Dinolift 220XSE

boom lift, unveiled at the end of September with its telescopic articulated jib and new mini-X chassis. Also on show will be the innovative 60ft direct electric drive hybrid Z-60/37FE articulated boom and other popular models such as the 40ft GS-4069BE hybrid scissor lift and the 40ft GS-4047 slab electric scissor lift.

Genie is bringing its new SX-135XC to Vertikal Days



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Stand 109

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The first GMG lift, the 2632-ED

GMG: Stand 211a

Making its worldwide debut, the new aerial lift entrant will unveil an all-new line of slab scissor lifts. The first models to be displayed include the 10ft 1030-PA, 13ft 1330-ED, 19ft 1930-ED, 26ft 2632-ED, 33ft 3346-ED, 40ft 4046-ED and the 46ft 4646-ED. According to the company the lifts have been designed to be simple in terms of layout and the number of components but are far from basic featuring electric direct drive wheel motors for example.

GSR: Stand 111

Truck mounted platform manufacturer GSR will launch its new B240PX articulated boom lift with 250kg platform capacity and an outreach of up to 12.3 metres. It will be joined by the 20 metre B200PX on a 3.5 tonne Nissan NT400 chassis with 300kg platform capacity and the 17 metre E170TJV on a 5.2 tonne Iveco Daily chassis, not to mention the 22 metre 228TJ.



GSR's new B240PX

GT Lifting Solutions: Stand 506

GT Lifting will show its heavy duty and 360 degree telehandlers from Magni and Merlo. The company also offers contract lift services, CPCS (Construction Plant Competence Scheme) training, specialist attachments and assistance with lift plans.

Haulotte: Stand 205

Haulotte UK will focus on its new

Haulotte HT85RTJ.



boom lifts including the new 85ft HT85RTJ telescopic unveiled late last year, and will demonstrate its latest technology including the Activ Screen, Acvativ Lighting, Stop Emissions and updated Activ Shield Bar secondary guarding system, all of which are being rolled out across the product range this year. The company will also show the new Star 6 AC vertical mast boom, Star 10 AC mast boom and Optimum 8 AC direct drive electric slab scissor lift. The Haulotte telehandler range will be represented by the 14 metre, 4,000kg HTL4014 latest generation telehandler with Tier 4F engine and no need for DPF or Ad-Blu.



Haulotte's new Star 6 AC vertical mast boom

Hematec: Stand 218

Making its first appearance at Vertikal Days, the highly innovative



The 15 metre Hematec Helix 1508



The new Hinowa Lightlift 13.70.

German mast boom manufacturer will exhibit the world's largest mast boom, the Helix 1508, with a 15 metre working height and eight metres outreach - thanks to its four section telescopic jib - at an up and over height of more than seven metres. Also on show will be the more traditional 12 metre Helix 1205 with more than five metres of outreach and finally the company will launch its new mast boom industrial crane - the Helix K 12500. (See Cranes)

Hinowa: Stand 210

Hinowa will launch its new 13 metre Lightlift 13.70, the smallest model in its range which incorporates all the latest features and aims to reinvigorate the compact, lower level spider lift market. It will be joined by the new 15 metre Lightlift 15.70 as well as the 20 metre 20.10 Lithium and 26 metre 26.14. The company will also demonstrate its new secondary guarding system.

Holland Lift: Stand 224

See AJ Access Platforms

IAPS Group: Stand 209

IAPS combines APS equipment sales and the IPS replacement parts business, and will show the new 13.2 metre Socage A314 pick-up truck mounted platform offering 7.2 metres of outreach having become the UK distributor this year. The company will also show a range of Genie booms and scissors, Aldercote van mounts, Wienold material lifts and low-level Youngman BoSS platforms. IPS will demonstrate its parts service along with outrigger mat supplier Outtriggerpads.



Socage A314

IMA: Stand 103

See Faraone

Imer: Stand 203/4

See CPL

Instant Upright: Stand 222a

Instant Access Towers will show a selection of its non-powered access products, aimed at the rental market. The stand will include the folding Snappy work platform and Podiums ideal for internal works, the Instant single man Mono Tower, Instant Spandek walkways and the Instant Span 500 Mobile Access Tower.

IPS: Stand 209

See IAPS

Isoli: Stand 201a

Isoli will give a global debut to the 24 metre PNT 240 articulated telescopic platform, with a 7.5 metre outreach at the full 250kg capacity. Alongside this is the 13.3 metre MPT 140 on a Nissan Navara chassis, with 230kg platform capacity.

Iteco: Stand 203/4

See CPL

Ixolift: Stand 116

See Russon Access

JCB: Stand 300

The JCB stand is likely to attract a good deal of attention this year with its all-new range of aerial work platforms including its new scissor lifts, represented by the 19ft S1930, 26ft S2632, 40ft S4046 and 45ft S4550. There might also be the opportunity to see the first of its new boom lift models. Telehandlers on display will include the new four tonne/17.5 metre 540-180 HiViz and the six metre 525-60 Compact telehandler.



JCB S2632 scissor lift

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 IN DOOR
 OUT DOOR
 750 kg 550 kg

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 2WD 4WD
 SWING AXLE

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 EASY LUBE

Holland Lift presents its new smart models: HL-160 and HL-190. The concept is designed for tailored efficiency. A modular system with various options: 16 or 19m high, electric, diesel or hybrid; the base of the machine always remains the same. These scissor lifts have attractive exploitation costs and a high return on investment. And whatever configuration you choose, Holland Lift quality, safety and durability are as always part of the deal.

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JLG
H800AJ
Hybrid

JLG: Stand 106/8

JLG will have several new products on the stand, including the company's first true hybrid model, the 80ft H800AJ articulated boom lift with its all-new parallel Hybrid drive system that will soon be transferred to other models in the range. The company has also redesigned its 600 series of 60 and 66ft boom lifts with dual platform capacities and improved performance characteristics. This will also be the first opportunity to test its new secondary guarding systems for booms and scissor lifts.

Klubb: Stand 203/4

See CPL

Leguan: Stand 110

Leguan machines on show will include the new 19 metre L190 spider lift with an outreach of 9.6 metres and a platform capacity of 230kg, along with the new 16.5 metre Leguan L165 spider lift.

Magni: Stand 506

See GT Lifting Solutions

Manitou UK: Stand 208

Manitou will focus on its access range with the 10 metre 100VJR mast boom, its lightweight hydraulic drive 12 metre Man'Go 12 and best-selling 46ft articulated Rough Terrain articulated boom lift. Its telehandler range will include the all-new, ultra-compact four metre/2,000kg Manitou MT420 telehandler.



Manitou
Man'Go 12

Mantall: Stand 223b

Mantall exhibiting for the first time in the UK will show two units from its slab scissor lift range.

MEC: Stand 211a

A number of MEC machines will be displayed on the GMG stand.

See GMG

Multitel Pagliero: Stand 220/1

Multitel will exhibit a selection of platforms from its 3.5 and 7.5 tonne truck mounted range including the 22.6 metre MJ 226 telescopic with jib and MJ 201S models, 25 metre MX 250 and 29 metre MX 290e. It will also show the 25 metre SMX 250 tracked spider lift. This will also be last event for long-time sales director Jerry Kist before he moves to a new role.

Niftylift: Stand 118

Niftylift will use the show to display a number of new products, including its first telescopic trailer lift, the completely revamped 63ft HR21 4x4 with on-board diagnostics, new controls and electronics and restyled covers. Also expect further new product debuts on the stand, possibly including the new 14 metre telescopic trailer lift.

Oil&Steel: Stand 211/2

See Hird

Ommelift: Stand 209

See IAPS

Pagliero: Stand 220/1

See Multitel Pagliero



Niftylift will show an updated version of its HR21

Palfinger Platforms:

Stand 203/4/301/2

Palfinger Platforms above 3.5 tonnes
- See Skyking

Palfinger Platforms Italia - See CPL

PB Liftechnik: Stand 116

PB heavy duty scissor lifts will be featured on the Russon Access stand.

See Russon Access

Platform Basket: Stand 200

See Promax Access

Pop-Up: Stand 105/7

See Snorkel

Power Towers: Stand 106/8

Power Towers low level and manually powered work platforms can be found on the JLG stand.

See JLG

range of access products on a stand shared with PB Liftechnik. Products will include its updated range of access equipment that does not require batteries or hydraulics.

Ruthmann: Stand 216

See Access Sales International

Sky Aces: Stand 301/2

See Skyking

Skyjack: Stand 100/2

Skyjack will highlight the all-new 85ft SJ85AJ articulated boom lift with 17.7 metres of outreach at an up and over height of 10.36 metres and a dual 340/227kg platform capacity. Other key features include SkyRiser with true vertical parallel lift from the dual over-centre riser, four wheel axle type drive with diff lock and EasyDrive direction sensing drive and steer system. Other products will include the 16ft SJ16 mast lift, 19ft SJ3219, 26ft SJ3226, 32ft SJ4632 and 40ft SJ4740 DC slab electric scissor lifts, 32ft SJ6832RTE Hybrid scissor and 41ft SJ9241RT Rough Terrain scissor lift, together with the 46ft SJ46AJ Rough Terrain articulated boom and 30ft SJ30ARJE battery powered industrial boom lift with rotating jib.



Skyjack SJ85AJ

Skyking: Stand 301/2

Skyking will show several Palfinger truck mounted platforms alongside the new 32ft Almac tracked scissor lift with dynamic auto levelling and a number of other new products.



Platform Basket Spider 18.90

Promax Access: Stand 200

Promax Access will highlight Platform Basket spider lifts including the 13.4 metre Spider 13.80 super-compact lithium-hybrid model with eight metres of outreach, 2.9 metre wide footprint and user friendly remote tracking and extending chassis. The company will also show the 27 metre Spider 27.14 Hybrid, with an overall width of just 890mm when stowed and up to 14 metres of outreach. The 18 metre Spider 18.90 PRO is now available with fibreglass bucket platform, radio remote controls, two speed tracking, auto set up and platform rotation.

ReachCraft: Stand 116

See Russon Access

Russon Access: Stand 116

Russon Access will show a



The Almac auto levelling Bibi scissor lift

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Snorkel UK: Stand 105/7

Snorkel will show its new TM12E and TM16E mast type lifts, alongside a selection of its slab electric scissor lift range, the A38 articulated boom and the Speed Level sigma type lift. Also look out for the new compact 2.5 tonne/six metre telehandler, first seen at Conexpo in March.



Snorkel TM16E

Socage: Stand 209

See IAPS

Terex Utilities: Stand 203/4

See CPL

Teupen: Stand 109

Teupen will exhibit the 18 metre Leo18GT Plus with the new option of hydraulically adjustable tracks. Also the Leo 21GT and the new Leo 35T telescopic spider lifts, with the latter making its UK debut and offering up to 17.7 metres of outreach.



Teupen's Leo 35T makes its UK debut



Versalift VTX240

Toucan: Stand 106/8

See JLG

Versalift: Stand 207

Versalift will show the first 17 metre VDT170-F platform sold in the UK,

mounted on a five tonne Mercedes Sprinter chassis. This will be accompanied by a set of platforms all returning to Vertikal Days including the 14 metre ETL38-F (E6) also the first sold in the UK, as well as a 13 metre ETL36-F (E6) and a 14.3 metre ETM38-F (E6). Also confirmed is the UK launch of the 15 metre low voltage platform on a 7.5T U218 Unimog, the 13.3 metre pick-up mounted LAT135-H platform and the UK launch of the new 24.2 metre VTX240. Visitors are invited to take the Landmark Challenge on the stand for a chance to win £150 of hotel vouchers.

Wienold Lift: Stand 209/11/2

See IAPS/Hird

Xtreme: Stand 105/7

See Snorkel

Youngman: Stand 209

See IAPS

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Cranes & Lifting Equipment



The Marchetti CW25.35 crane will be on AGD's stand

AGD Equipment: Stand 600

AGD is the distributor for both Sennebogen and Marchetti cranes in the UK and Ireland and will show two telescopic crawlers - the 40 tonne Sennebogen 643 with its 30 metre main boom and the 25 tonne Marchetti CW25.35 Sherpina with its 25.1 metre five section main boom and 3.6 to 8.1 metre extension and work platform option.

Artic Crane: Stand 603

See City Lifting

Böcker: Stand 304/5

See Kranlyft

City Lifting: Stand 603

One of the founding companies of Vertikal Days, City Lifting and partner Linden Comansa will use the event for the worldwide unveiling of the new Linden Comansa tower crane cab mounted on a short 16LC260 tower. The cab will be standard on all cranes shipped from July onwards. City Lifting also distributes Artic crane and may have the latest Raptor 184 articulated crane on the stand.



Linden Comansa

Comansa: Stand 603

See City Lifting

Cormidi: Stand 101

See GGR

Crowland Cranes: Stand 400

Crowland Cranes will exhibit the new Grove 35 tonne RT540E Rough Terrain crane with the latest CCS operating system. It is also the dealer for Ormig pick & carry cranes but will not show a model this time round. However it will



The Gapo tower crane positioner will be demonstrated on the Falcon stand



Grove RT540E

have its full range of plastic Power Pad outrigger mats on display, along with the company's new steel outrigger mat range and crane storage systems. Crowland is also the Trimble Lifting Solutions distributor for the range of wireless safety and measuring systems and will have live demonstrations of its latest wind speed systems, under-hook load cells and tilt sensors. One model to check out is a fully restored Allen T644 truck mounted crane from the 1950's. The project demonstrates what the company is capable of when it comes to rebuilds and refurbishments.

Demag: Stand 313/4

See Terex Cranes

Falcon Tower Crane Services: Stand 303

First time exhibitors Falcon Tower Crane Services will highlight its self-erecting tower crane division with the latest Potain IGO50 tower crane complete with the Gapo positioning machine. It will also have a Fassi F660RA.2.26 articulated crane mounted on the latest Volvo FH540 chassis alongside a Jaso J118HPA luffing jib tower crane. Its power generation division will show a new stage 3a Cummins 250kVa generator. Falcon will be offering the chance to win a luxury hamper from Fortnum & Mason - just drop your business card in a jar on the stand and one will be randomly selected on Thursday.

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Fassi: Stand 222

See *Mac's Truck Sales*

Ferrari: Stand 202

See *Shawtrack Services*

FLG Services: Stand 308

See *A-Plant*

Galizia: Stand 101

See *GGR*

GGR Group: Stand 101

GGR will display its Unic spider crane range, including the new the URW 706-2, which includes an innovative hydraulic searcher hook to provide a maximum hook height of 25.9 metres. The company will also display Galizia pick & carry cranes and a mini crawler crane from Sunward, alongside glazing robots and glass vacuum lifters.



1508 mast boom which has a maximum tip height of 11 metres and up to five metres radius. At a height of nearly seven metres it can handle 150kg and 350kg at 4.2 metres.

Hird Group: Stand 211/2

Hird will display a variety of brands and products, including PM loader cranes, Oil&Steel access platforms and from Valla the 25EL pick & carry crane. The company will also show Oktopus vacuum lifters from Wirth and the new Winlet 1000 glazing robot. The Wienold MFC 750K, one of the largest floor cranes on the market will also be on display alongside the GML 800+ DC/AC electric version of Wienold's 7.9 metre vertical material lift with 800kg capacity.



Unic



Valla 25EL

Giraf Track: Stand 101

See *GGR*

Grove: Stand 401-4

See *Manitowoc*

Grove will show its 35 tonne RT540 Rough Terrain crane, which features Manitowoc's Crane Control System (CCS). Other Groves on show include the GMK5150L, GMK5250L and GMK4100L-1 All Terrain cranes. Also check the demonstration of the Viab turbo clutch module and integrated retarder, now fitted to most Grove All Terrains.

Hematec: Stand 218

The mast boom specialist will launch its new Helix K 12500 industrial crane derived from its



Hematec will launch the Helix K 12500 industrial crane

Hitachi-Sumitomo: Stand 604

See *NRC Plant*

HTC Wolffkran: Stand 315

HTC Wolffkran will present its crane hire division with the stand featuring the Wolff WK166B luffing jib tower crane. Trainer examiners from Wolff Training will also be present to promote its courses and to discuss training needs.

Jaso: Stand 303

See *Falcon Tower Crane Services*

Jekko: Stand 508/9

See *JT Cranes*

JT Cranes: Stand 508/9

The UK dealer for Jekko will show



Jekko SPK60

the all-new JF545 spider crane with 10 tonne lifting capacity. Alongside this will be the improved six tonne Jekko SPK60 mini crawler crane and the D40 tracked carrier which can move across rough indoor or outdoor terrains and traverse ramps up to 40 degrees.

Kato: Stand 309/10/11

See *Rivertek Services/NMT Crane Hire*

Kobelco Cranes Europe:

Stand 602

The 100 tonne CKE900G2 will be on the Kobelco stand equipped with Euro Tier 4 Final engine. The crane can lift its maximum capacity at 3.6 metres and handle 90 tonnes at 3.9 metres.



Kobelco CKE900G2

Kranlyft: Stand 304/5

Kranlyft will exhibit the full range of Maeda spider cranes, including the new 995kg MK1033 articulated knuckle boom model, the new eight tonne MC815, and the 2.82 tonne MC285 which will be available for demonstration. The recently launched five tonne CC985S-1 and six tonne CC1485 mini crawler



CC1485 mini crawler crane

cranes will also be on display - check out their latest safety equipment. There will also be a selection of Böcker aluminium truck cranes including the AK46-6000, AK37-4000 and the RK36-2400 on a tracked chassis.

Liebherr: Stand 317-20

Liebherr will show a wide selection of its All Terrain crane range along with two mobile tower cranes. The highlight is sure to be the first public appearance in Europe of the new 90 tonne LTM 1090 4.2. The four axle All Terrain features a 60 metre main boom and is able to carry all of its ballast on the road. Other All Terrain cranes on display will be the 100th 60 tonne LTM 1060 to be delivered in the UK, a 300 tonne LTM 1300, a 130 tonne LTM 1130, a 50 tonne LTM 1050, and a 100 tonne LTM 1100. From the mobile tower crane range, Liebherr will highlight the MK140 which will be shown alongside the smaller MK88. As usual, Liebherr Training Services personnel will be on hand to discuss all or any of your training needs and do not miss the popular Liebherr shop.



See the European debut of Liebherr's LTM 1090 4.2

Wednesday 24th May 2017

Times	Meetings, Seminars & Workshops	Location
All day	InspHire - Customer 1-2-1s	Meeting Room (next to Marketplace)
All day	My Future My Choice	Garages 12a - 12c

Thursday 25th May 2017

Times	Meetings, Seminars & Workshops	Location
All day	InspHire - Customer 1-2-1s	Meeting Room (next to Marketplace)
10.30am	CPA - Strategic Forum Plant Safety Group	Silverstone Wing
All day	My Future My Choice	Garages 12a - 12c

Exhibitor and brand listing

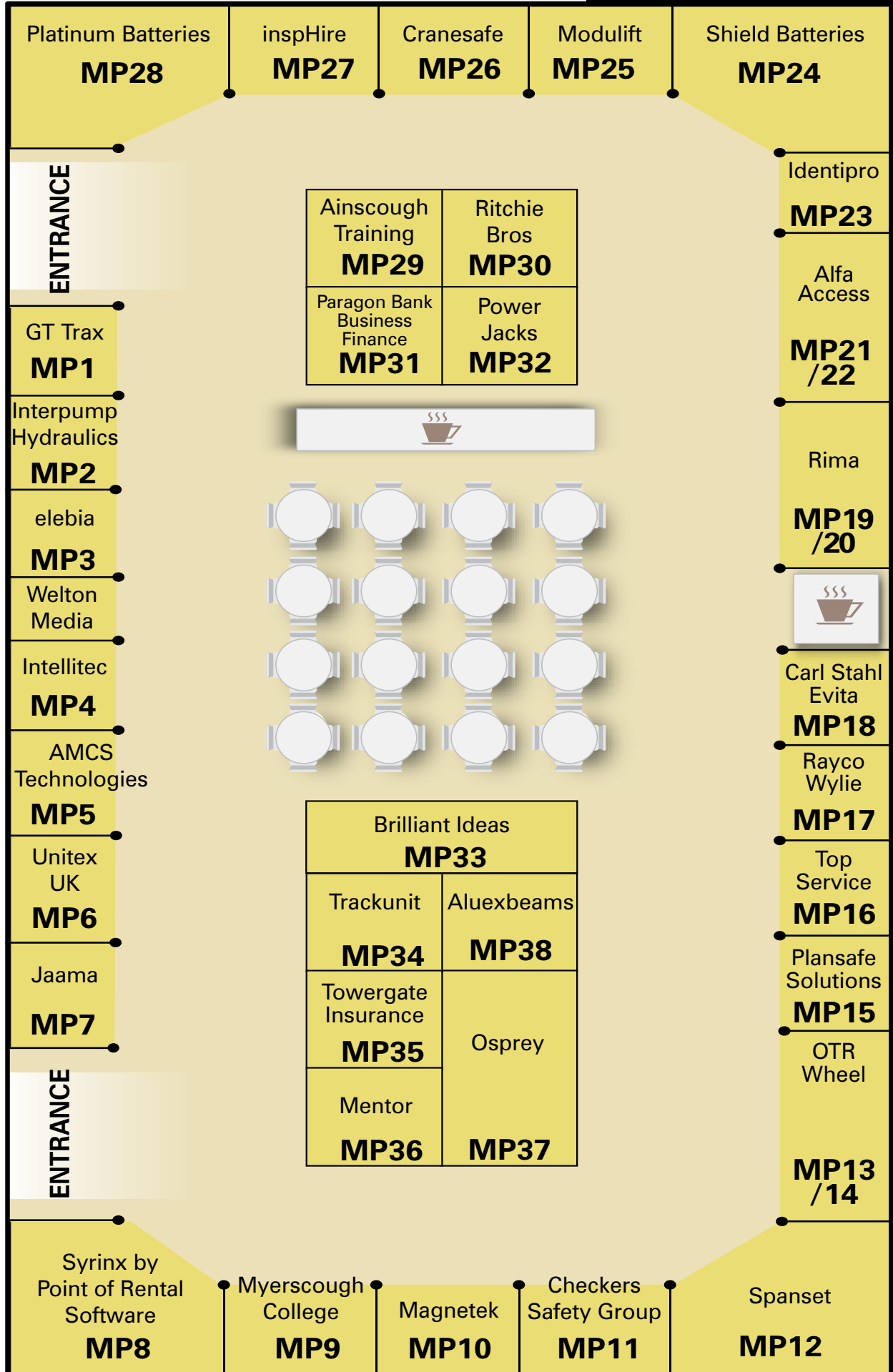
A S Joysticks:	Stand 504	Fassi:	Stand 222	Lifting Gear UK:	Stand 312	Rayco Wylie Systems:	Stand MP17
A-Plant:	Stand 308	Ferrari:	Stand 202	Linden Comansa:	Stand 603	ReachCraft:	Stand 116
A-Plant Training:	Stand 308	FLG Services:	Stand 308	Link-Belt:	Stand 604	Reedyk:	Stand 200
Access Industries:	Stand 220/1	Galizia:	Stand 101	Live Trackway:	Stand 308	RidgeGear:	Stand MP6
Access Sales International:	Stand 216	Gantic Battery Chargers:	Stand MP21/22	Lubitec:	Stand 217b	Rima:	Stand MP19/20
Aerial and Handling Services:	Stand 219	Gapo:	Stand 303	Mace Industries:	Stand 218a	Ritchie Bros Auctioneers:	Stand MP30
AGD Equipment:	Stand 600	GB Lubricants:	Stand 502	Macs Trucks:	Stand 222	Rivertek Services:	Stand 309/10
Ainscough Training Services:	Stand MP29	Gehl:	Stand 208	Maeda:	Stand 304/5	Russon Access:	Stand 116
Airo:	Stand 219	Genie:	Stand 112/4	Magnetek:	Stand MP10	Ruthmann:	Stand 216
AJ Access Platforms:	Stand 224	GGR Group:	Stand 101	Magni:	Stand 506	SafetyLiftinGear:	Stand 503
Aldercote:	Stand 209	Giraf Track:	Stand 101	Mait:	Stand 600	Sanctuary Zone:	Stand 219
Alfa Access Services:	Stand MP21/22	Glasboy:	Stand 101	Manitex:	Stand 211/2	Sennebogen:	Stand 600
Alimak Hek:	Stand 215	GMG:	Stand 211a	Manitou UK:	Stand 208	Sensor Technology:	Stand MP40
Alimats (Beresford) Flooring:	Stand MP33	Goldhofer:	Stand 305a	Manitowoc:	Stand 401-4	Shawtrack Services:	Stand 202
Almac:	Stand 301/2	Gorbel:	Stand MP18	Mantall:	Stand 223b	Shield Batteries:	Stand MP24
Aluexbeams:	Stand MP38	Grove:	Stand 401-4	Mantis/Tadano:	Stand 306/7	SKM Asset Finance:	Stand 505
AMCS Technologies:	Stand MP5	GSR:	Stand 111	Marchetti:	Stand 600	Sky Aces:	Stand 301/2
AmerParts:	Stand 217a	GT Lifting Solutions:	Stand 506	Mather + Stuart:	Stand 308	Skyjack:	Stand 100/2
Andover Trailers:	Stand 305a	GT Trax:	Stand MP1	MEC:	Stand 211a	Skyking:	Stand 301/2
APS:	Stand 209	Haulotte:	Stand 205	Mentor Training Solutions:	Stand MP36	Snorkel UK:	Stand 105/7
Artic Crane:	Stand 603	Hematec:	Stand 218	Michelin Tyres:	Stand 225	Socage:	Stand 209
Ascendant Access:	Stand 301/2	Hinowa:	Stand 210	Miller Weblift:	Stand MP6	SpanSet:	Stand MP12
ATN Platforms:	Stand 104	Hird Group:	Stand 211/2	Mitas Tyres:	Stand 201	Spierings:	Stand 316
Avant Tecno:	Stand 110	Hitachi-Sumitomo:	Stand 604	Modulift:	Stand MP25	Steadplan:	Stand 223a
Bil-Jax:	Stand 205	Hitec Lift Trucks:	Stand 205a	Montracon:	Stand 213	Sterling GP:	Stand 119a
Bizzocchi:	Stand 214	Holland Lift:	Stand 224	Multitel Pagliero:	Stand 220/1	Sunward:	Stand 101
Böcker:	Stand 304/5	HTC Wolfkran:	Stand 315	Myerscough College:	Stand MP9	Syrinx by Point of Rental:	Stand MP8
Boss:	Stand 209	IAPS Group:	Stand 209	Niftylift:	Stand 118	Tackle Store:	Stand 503
Bravi:	Stand MP21/22	Identipro:	Stand MP23	NMT Crane Hire:	Stand 311	Tadano:	Stand 306/7
Brilliant Ideas:	Stand MP33	IMA:	Stand 103	Nolim:	Stand 507	Terex Cranes:	Stand 313/4
Bronto Skylift:	Stand 117/9	Imer:	Stand 203/4	NRC Plant:	Stand 604	Terex Utilities:	Stand 203/4
Carl Stahl Evita:	Stand MP18	inspHire:	Stand MP27	Oil&Steel:	Stand 211/2	Teupen:	Stand 109
Central Platform Services:	Stand 110	Instant Upright:	Stand 222a	Ommelift:	Stand 209	Thermoil:	Stand 209
CGS Tyres:	Stand 201	Intellitec MV:	Stand MP4	Orlaco:	Stand MP26	TMC Lifting Supplies:	Stand 400
Checkers Safety Group:	Stand MP11	Interpump UK:	Stand MP2	Ormig:	Stand 400	Top Service:	Stand MP16
City Lifting:	Stand 603	IPAF:	Stand 120	Osprey:	Stand MP37	Toucan:	Stand 106/8
CLM/Maber:	Stand 224a	IPS:	Stand 209	OTR Wheel Engineering:	Stand MP13/14	Towergate Insurance Brokers:	Stand MP35
Comansa:	Stand 603	Isoli:	Stand 201a	Outriggerpads:	Stand 510	Trackunit:	Stand MP34
Co.Me.T:	Stand 222b	Iteco:	Stand 203/4	Pagliero:	Stand 220/1	Trimble Lifting Solutions:	Stand 400
Cormidi:	Stand 101	Ixolift:	Stand 116	Palfinger Platforms:	Stand 203/4/301/2	Trojan Batteries:	Stand MP28
CPA:	Stand 226	Jaama:	Stand MP7	Paragon Bank:	Stand MP31	TuffTrak:	Stand MP11
CPL:	Stand 203/4	Jaso:	Stand 303	Paus:	Stand 101	TVH:	Stand 206
Crane Mats & Tackle:	Stand 311	JCB:	Stand 300	PB Liftechnik:	Stand 116	Unic:	Stand 101
Cranes Today:	Marketplace	Jekko:	Stand 508/9	Plansafe Solutions:	Stand MP15	Unitex UK:	Stand MP6
Cranesafe:	Stand MP26	JLG:	Stand 106/8	Platform Basket:	Stand 200	Universal Crane Mats:	Stand 500
Crowland Cranes:	Stand 400	JT Cranes:	Stand 508/9	Platinum Batteries:	Stand MP28	Valla:	Stand 211/2
Crown Batteries:	Stand MP24	Kargo King:	Stand 119a	PM Group:	Stand 211/2	Verope:	Stand 501
CTE UK:	Stand 214	Kassbohrer:	Stand 202	Pop-Up:	Stand 105/7	Versalift:	Stand 207
Cultor Tyres:	Stand 201	Kato:	Stand 309/10/11	Potain:	Stand 401-4	Vertikal Press:	Marketplace
Demag:	Stand 313/4	King Trailers:	Stand 301/2	Power Jacks - Load		Welton Media:	Marketplace
Dingli:	Stand 113/5	Klubb:	Stand 203/4	Monitoring Solutions:	Stand MP32	Wienold:	Stand 209
Dinolift:	Stand 110	Kobelco Cranes:	Stand 602	Power Towers:	Stand 106/8	Wienold Lift:	Stand 209/11/2
Easylift:	Stand 203/4/301/2	Kranlyft:	Stand 304/5	Power-Pads:	Stand 400	Winlet:	Stand 211/2
elebia:	Stand MP3	Latch and Batchelor:	Stand 501	Probst Handling Equipment:	Stand 119b	Wolffkran:	Stand 315
Falcon Tower Crane Services:	Stand 303	Leguan:	Stand 110	Promax Access:	Stand 200	Xtreme:	Stand 105/7
Faraone:	Stand 103	Liebherr:	Stand 317-20	PSR:	Stand 112/4	Youngman:	Stand 209

Outdoor Site Plan



Silverstone
May 24th-25th 2017

Wed. 10:00 to 17:30 Thur. 10:00 to 16:30





Linden Comansa: Stand 603

See City Lifting

Link-Belt: Stand 604

See NRC Plant

Maeda: Stand 304/5

See Kranlyft

Mait: Stand 600

See AGD Equipment

Manitex: Stand 211/2

See Hird

Manitowoc: Stand 401-4

The Grove cranes on show include the 35 tonne RT 540 Rough Terrain crane, with the Crane Control System (CCS), the GMK5150L, GMK5250L and GMK4100L-1 All Terrain cranes. This will also be the first chance to see the new four tonne Potain HUP 40-30 self-erecting tower crane with 40 metre jib. The new crane will be shown in partnership with UK-based tower crane specialist Ladybird Crane Hire, which is adding it to its rental fleet.

Mantis/Tadano: Stand 306/7

See Tadano

Marchetti: Stand 600

See AGD Equipment

NMT Crane Hire: Stand 311

UK rental company NMT Crane Hire will show two All Terrain cranes, a 100 tonne Terex AC100-4L and a 60 tonne Liebherr

LTM 1060.3.1. Joining these will be a 50 tonne Liebherr LTC 1050 and a 35 tonne Kato KRi350 City-type All Terrain crane. The company will also show a selection of spreader beams and outrigger mats, with the launch of NMT's new tackle shop called Crane Mats & Tackle.

NRC Plant: Stand 604

NRC Plant will highlight the message "green is the theme", with the Tier 4 Hitachi-Sumitomo SCX800A-3 crawler crane and 100 tonne Link-Belt TCC-1100 telescopic crawler crane, both with fuel efficient power units. The company will also show a new Maeda CC1485 mini crawler crane with environmentally friendly Isuzu engine. There will also be a number of ancillary products from within the group including man baskets, rescue cages and skips.



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Ormig: Stand 400

See *Crowland Cranes*

Osprey: Stand MP37

Osprey Heavy Lift runs a fleet of large mobile cranes from 500 tonnes up to the 1,000 tonne Liebherr LTM 1800D and claims to run the largest fleet of Self Propelled Modular Transports (SPMT) in the UK, as well as providing jacking/skating systems, and wide load/heavy lift transport.

Osprey runs a fleet of mobile cranes



Paus: Stand 101

See *GGR*

PM Group: Stand 211/2

See *Hird*

Potain: Stand 401-4

Also see *Manitowoc*

The show will be the first chance to see the new four tonne Potain HUP 40-30 self-erecting tower crane with 40 metre Jib. The new crane will be shown in partnership with UK-based tower crane specialist Ladybird Crane Hire, which is adding the crane to its fleet.

Potain HUP 40-30 self-erecting tower crane



Reedyk PC4405



35 tonne Kato CR-350Ri

Reedyk: Stand 200

UK dealer Promax Access will launch Reedyk's lithium battery powered super compact three tonne PC4405 pick & carry crane with nine metre hook height, one metre overall width and 1.8 metre overall height, with up to 30 degrees of slew for increased versatility.

Rivertek Services: Stand 309/10

Kato's European distributor Rivertek will display the full range of Kato City-type All Terrain cranes including the 35 tonne CR-350Ri, 20 tonne CR-200Ri and 13 tonne CR-130Ri, all laid out on a larger stand, following its more modest show debut last year.

Sennebogen: Stand 600

See *AGD Equipment*

Spierings: Stand 316

Spierings will show its new four axle SK597-AT4 mobile self-erecting tower crane which boasts a 48

metre jib that can handle 1,700kg at the tip and lift a maximum capacity of seven tonnes. The crane provides a maximum hook height of 58.1 metres with the jib luffed to 45 degrees. Alongside will be the larger six axle SK1265-AT6.

Sunward: Stand 101

See *GGR*

Tadano: Stand 306/7

Tadano will use the event for the



Tadano ATF 220G-5

UK launch of the new 130 tonne ATF 130G-5 with its 60 metre main boom, new carrier cab and latest Euromot 4 engine. Also on the stand, the 220 tonne ATF 220G-5 All Terrain with a new cab, following its debut at last year's event. It will be joined by a 70 tonne ATF 70G-4, the only 70 tonne All Terrain on the market with twin engines.

Terex Cranes: Stand 313/4

Terex Cranes will be back with a number of new cranes and will be looking for feedback on the relaunch of its City-type All Terrain crane range due to begin with the 45 tonne Demag AC 45. The company is on a recovery plan under new president Steve Filipov and has a great deal to talk about.

Terex AC 40/2L



Unic: Stand 101

See *GGR*

Valla: Stand 211/2

See *Hird*

Wienold: Stand 209

See *IAPS*

Wolffkran: Stand 315

See *HTC Wolffkran*



Spierings' new SK597-AT4



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Other equipment and services etc...

A S Joysticks: Stand 504

New exhibitor A S Joysticks will show the Koduct Cable chain carriers, as well as Spohn & Burkhardt Controls. There will be complete operator course units, cable chain assemblies, joystick controllers and much more. A raffle will be held on the stand to win a five litre barrel of locally brewed real ale. Simply post your business card in the box on the stand to enter.

A-Plant Training: Stand 308

See A-Plant

Ainscough Training Services: Stand MP29

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 & transportation, aerospace, renewable energy, utility sectors and the MoD.

Alimats (Beresford) Flooring: Stand MP33

See Brilliant Ideas

Aluexbeams: Stand MP38

Finnish manufacturer Aluexbeams is returning and will show its light aluminium spreader beams that can lift up to 10 tonnes.

AMCS Technologies: Stand MP5

AMCS Technologies - the French manufacturer of safety devices for tower cranes and other lifting machinery - is making its Vertikal Days debut. On the stand will be the DCS60, an anti-collision and zone protection system, which can be fitted to all types of cranes to work in real time. The company also makes site supervisors, anemometers and aviation lights as well as being a dealer for video cameras.

AmerParts: Stand 217a

Newly established AmerParts UK supplies replacement parts for aerial work platforms. The company will exhibit replacement wheels, joysticks, control boxes and battery chargers for Genie, Skyjack, JLG, Haulotte, UpRight and other brands. The company will also promote Power Source, its own range of water resistant battery chargers.

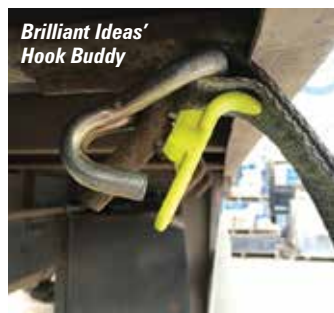
A competition is also available on the stand to win a ride on the Silverstone Formula One track in a Ferrari F430 which can be seen on the stand. Drop by and fill in a competition form before the winner is announced on Thursday.

Andover Trailers: Stand 305a

On the Andover Trailers stand you will find the latest in bespoke trailers and plant bodies tailored for access and general rental companies, including the SFSL44 trailer which features a semi-sloping deck allowing access to the whole length of the trailer for low ground clearance equipment. A truck with low-profile Beavertail plant body will also be featured on the stand as well as one of the latest Goldhofer trailers.

Brilliant Ideas: Stand MP33

Brilliant Ideas will show four new products at Vertikal Days. Tower Trucks aims to make moving tower scaffolding easier. It consists of two parts - a fully adjustable clamp which can be fitted to any tower with an in-built tow hitch, and a wheeled tow ball with a long leverage handle. Also Hook Buddy - launched in January - will be shown which magnetically holds a ratchet strap hook temporarily in place on the tie pin whilst ratcheting down a load onto a trailer. The Mini Stacker Packer will also be on display which interlocks both sideways and in height to form a safe and stable shim stack to build up height



Brilliant Ideas' Hook Buddy



The MaxX lifting magnet

shortfalls, and finally Mortarvator, a lightweight mixer used to mix concrete and mortar.

Carl Stahl Evita: Stand MP18

Carl Stahl Evita will show its latest MaxX lifting magnets with sizes ranging from 125kg to 2,000kg. The company will also display the latest technology on RUD lifting points, the VLBG Plus and VRS Lifting Eyebolts.

CGS Tyres: Stand 201

See Mitas Tyres

Checkers Safety Group: Stand MP11

Checkers Safety Group specialises in all ground cover, ground protection and stabilisation mats and outriggers to support vehicles and heavy loads, with special emphasis on all types of crane and on all types of terrain. TuffTrak mat samples will be shown together with cable protection systems and outrigger pads, with a potential launch of the new range of DICA Safety Tech Outriggers.

CPA: Stand 226

The Construction Plant-hire Association represents equipment rental companies and is the main association for crane hire companies in the UK. The CPA will hold an open meeting on the Thursday to discuss the latest projects including maintenance, inspection

and thorough examination of work platforms. Also stop by and learn about the benefits of membership.

Crane Mats & Tackle: Stand 311

See NMT Crane Hire

Cranes Today: Marketplace

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

Cranesafe: Stand MP26

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

Crown Batteries: Stand MP24

See Shield Batteries

Cultor Tyres: Stand 201

See Mitas Tyres

elebia: Stand MP3

elebia will demonstrate its unique automatic hook which allows for the attachment and release of loads remotely and safely without any personnel handling. Ask about the new Evo2 Hook which elebia introduced last year, boasting a new 2.5 tonne working load and a lighter, more compact and versatile design.



TuffTrak XT



elebia automatic hook

OPEN SPACE

Over 12 meters of horizontal outreach with unrestricted rotation and legs within the shape of the vehicle.



APEX // stand 240 VERTIKAL DAYS // stand 111

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LUBRICANTS

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Gantic Battery Chargers: Stand MP21/22

See *Alfa Access Services*

Gapo: Stand 303

See *Falcon Tower Crane Services*

GB Lubricants: Stand 502

UK manufacturer GB Lubricants is making its debut at Vertikal Days, and will display GB Unipower HVI A46, a high viscosity hydraulic fluid capable of operating at a wider range of temperatures with improved operational hours. The Unipower hydraulic range will also be on display, including the

introduction of Unipower H46+ for 2017 along with premium bio hydraulic grades, gear oils and engine oils for a wide range of applications.

Glasboy: Stand 101

See *GGR*

Goldhofer: Stand 305a

See *Andover Trailers*

Gorbel: Stand MP18

See *Carl Stahl Evita*

GT Trax: Stand MP1

On display will be samples from the GT Trax range of high molecular



Cesab forklift

weight polyethylene (HMPE) plastic outrigger pads. Also on show will be examples of the GT Trax line of Power Tracks temporary roadway systems, manufactured from recycled and recyclable HMPE plastic. Power Tracks are suitable for heavy duty and light duty vehicles

Hitec Lift Trucks: Stand 205a

The forklift sponsor for the event Hitec is the dealer for the Cesab range of industrial forklift trucks. The company is part of Toyota Materials Handling Europe, and has been the Cesab dealer since 1994. The company is running a draw for an all paid trip with flights and accommodation for two people to

Bologna, Italy, including a visit to the Cesab facility.

Identipro: Stand MP23

Identipro specialises in label and decal printing systems, allowing rental companies to print their own industrial grade, instantly dry weatherproof labels - including safety symbols/decals and signs, barcodes, custom text and company logos. Print your durable, outdoor labels and signs using one of its portable or desktop label printers. The benefits include reduced equipment downtime and a reduction in decal/sign inventory. Be sure to visit the stand for a quick demonstration and discussion.



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inspHire software

inspHire: Stand MP27

inspHire provides leading rental management software solutions to the access and lifting industry, designed to streamline the complete hire process by improving operational efficiencies, equipment utilisation and customer service. It claims to have the perfect solution no matter how large or small the company. inspHire will also be demonstrating inspHire Mobile, allowing the completion of LOLER Examinations on a hand-held device, as well as inspHire CRM, which optimises customer and prospect management to increase sales and improve customer loyalty, and the newly launched inspHire WebPortal allowing customers to access important hire information around the clock. inspHire is offering visitors an exclusive show-only offer that entitles new customers to an additional free office user licence with every system order.

Intellitec MV: Stand MP4

Intellitec MV designs, manufactures and installs electrical DC and AC systems for builders, converters and fleet operators of specialist vehicles. IMV's products are used for battery power management and programmable control of electrical systems in a wide variety of applications including bus, truck, emergency service, leisure vehicles and marine. The widely adopted Intellitec Battery Guard system

guarantees battery starting power and is fitted on all UK Fire & Rescue vehicles and specified by many major fleet operators. The company will also launch its new range of lithium-ion batteries.

Interpump UK: Stand MP2

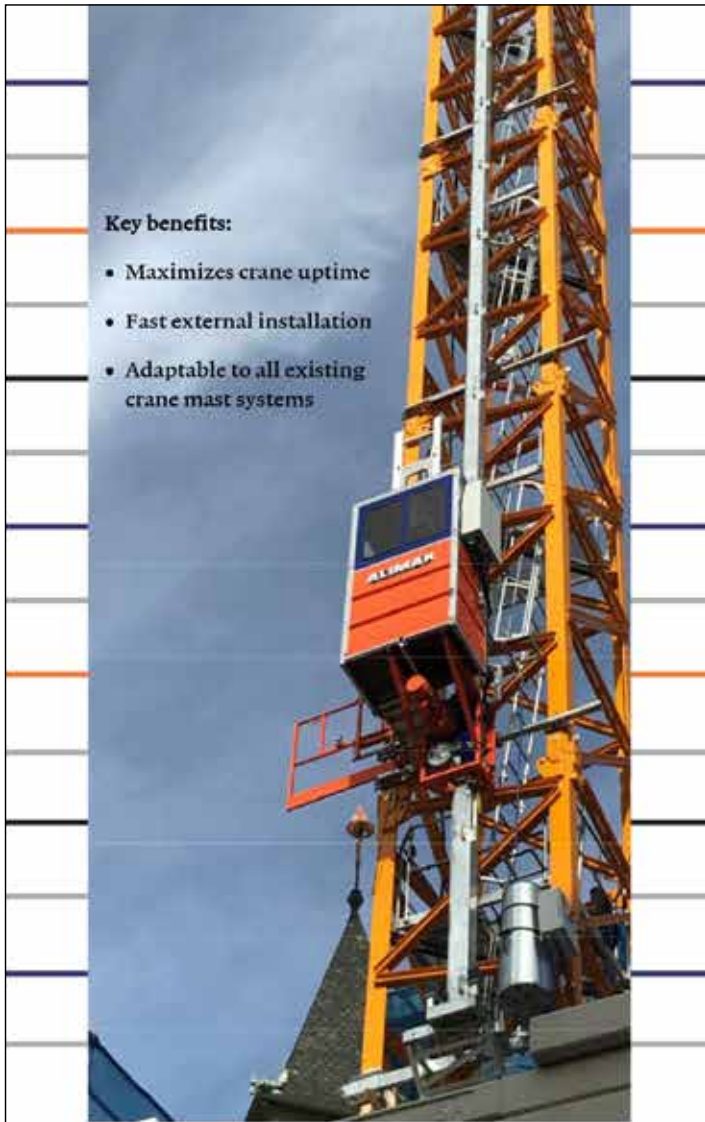
The Interpump Group is not only the world's largest manufacturer of Power Take Offs but also one of the major manufacturers of hydraulic pumps, cylinders, hose & fittings and directional control valves in addition to a wide range of other hydraulic components. Interpump UK has merged with sister company IMM Hydraulics (UK) and moved to a large two-acre site allowing it to stock a wider variety of hydraulic components, hose production lines and testing areas. Brands within the group include Hydrocar, IMM, Hydroven, Hypress, Contarini, Panni, Walvoil, Galtech and MTC.

IPAF: Stand 120

This year IPAF will highlight the importance of inspection, maintenance and the thorough examination of machines to coincide with new industry guidance documents. Demonstrations and information provided on the stand will illustrate the importance of good maintenance regimes from pre-use checks to major examinations.



Intellitec



Key benefits:

- Maximizes crane uptime
- Fast external installation
- Adaptable to all existing crane mast systems

Alimak TCL— Tower Crane Lift

Alimak Hek has launched the latest in tower crane lifting technology, the ALIMAK TCL. Designed for installation on all existing tower crane brands and systems, this new lift maximizes crane utilization by providing reliable and smooth crane cab access. The ALIMAK TCL offers fast external installation, easy retrofitting with no mast modifications, and comfortable and reliable access for crane operators, technicians and maintenance personnel.

The ALIMAK TCL boasts an innovative new design that offers the fastest external installation available on the market. This design allows for a greater tie distance, reducing the total lift assembly time and minimizing potential crane downtime.

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Showcasing the Maeda MC815 and CC985 mini cranes

Vertical
days

Stand No. 304/5

MC815



NEW TO THIS MODEL

Power lifting mode

Joystick control

New HBC technos 2 telemetry system with travelling via remote

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Auto crane stow via remote

MSOS (Maeda Safety Operation System)

- **Massive 8 tonnes** lifting capacity making it the stongest lifter to date
- **19.4m** tipping height
- **EU stage 3B** compliant engine to make it environmentally friendly
- **New 10.4"** multi function touchscreen monitor
- **Added bonus** of 1000kg pick and carry capacity, this crane offers unrivalled versatility with great lifting duties
- **Optional 1500kg SWL** hydraulic 2-section Fly Jib increases maximum lifting height to 25.5m
- **All new** Searcher Hook giving class leading duties of 1000kg

NEW FOR 2017

Telescopic Crawler Crane

EU Stage 3b/4 Compliant Engine

4.9t x 2.1m Crane Capacity

Maximum Lifting Height 16.5m

Massive 2000kg Pick & Carry Duties

Optional Fly Jib to increase Lifting Height to 20.2m

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CC985



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REALISE THE POTENTIAL



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Vertical
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Stand No. 304/5

Alu Truck Crane AK 46/6000

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- ▶ Payload max. 6.000 kg
- ▶ Fully variable outriggers

Kranlyft U.K. UK and Ireland distributor 0117 982 6661 alan@kranlyft.co.uk

IPS: Stand 209

See *IAPS*

Jaama: Stand MP7

Jaama's Key2 Hire Management is a totally integrated web-based fleet management software solution that actively monitors and provides the information required to make strategic business decisions. The product suits both single user or multi-site companies, helping control costs, improve asset utilisation, ensure legislative compliance, and manages operators all with the aim to increase profitability by making costs and income transparent. Key2 Hire Management is fully scalable, with an in-built reporting suite and fully integrated accounts functionality.

Kargo King: Stand 119a

See *Sterling GP*

Kassbohrer: Stand 202

See *Shawtrack Services*

King Trailers: Stand 301/2

See *Skyking*

Latch and Batchelor: Stand 501

Latch and Batchelor is the UK distributor for the Verope OEM wire rope business for the offshore, construction and heavy industries with a focus on the tower, crawler and mobile crane market. The company has a dedicated crane service centre where its ropes are laser measured and end fittings to suit most applications can be added, including bespoke end stops for Liebherr, Terex, Grove and others, which can be installed in-house or on site. The company also stocks a wide range of ropes for same day collection or next day delivery including ropes fitted with Liebherr approved end stops attached for the Liebherr LTM range.

Lifting Gear UK: Stand 312

Supplies, hire sales, inspection, repair and testing of all types of lifting equipment including

full contract lift and the design, development and fabrication control of lifting appliances.

Live Trackway: Stand 308

Formerly Eve and LION Trackhire, the specialist division of A-Plant will show Emtek timber system, a modern engineered and lighter alternative to traditional bog mats.



Lubitec: Stand 217b

Lubitec supplies high quality, environmentally friendly, specialist lubricants including wire rope grease for regular and marine applications and biobased environmentally friendly lubricants and greases.



Mace Industries: Stand 218a

Mace Industries will show a range of Wire Rope and Rack & Pinion Construction Hoists, a Brick/Tile Conveyor Lift and Powered Interlink Conveyor Belt.

Macs Trucks: Stand 222

Macs will exhibit its latest access specification plant delivery body and will display an 80 tonne/metre Fassi crane with front stabiliser legs.

Magnetek: Stand MP10

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



MATHER+STUART
POWER SOLUTIONS

Mather + Stuart: Stand 308

See *A-Plant*

Mentor Training Solutions:
Stand MP36

Mentor Training Solutions are the UK's leading provider of training and associated services for material handling, access and mobile construction equipment including IPAF and PASMA courses. The company has recently expanded its fleet of PASMA vans, offering nationwide training at customer sites complete with the equipment needed to deliver any PASMA accredited courses. Training is also provided at centres around the UK.

Michelin Tyres: Stand 225

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



Michelin X
Crane + tyre

Miller Weblift:
Stand MP6

See *Unitex*

Mitas Tyres: Stand 201

Mitas is the second largest specialist off-road tyre manufacturer in Europe and part of the Trelleborg group. It is the sole manufacturer of Mitas and Cultor branded tyres, with factories in Czech Republic, Serbia and America and is a preferred supplier to most of the major machinery manufacturers. The UK subsidiary was established in 2004, and carries a full range of cross-ply and radial tyres for various applications.

Modulift: Stand MP25

Modulift will show a range of its spreader beams and other below the hook heavy lifting equipment including modular spreader beams up to 50 tonnes and the innovative Trunnion Spreader Beam which provides shackle free lifting. The company offers both off the shelf and custom lifting solutions and is ready to advise on rig planning, design custom lifting equipment or manufacture lifting products to the highest specifications.



Modulift spreader beam

Montracon: Stand 213

Montracon prides itself on its product portfolio and production flexibility, building one of the widest ranges of trailers available in Europe. On the stand will be the new MT45 machinery carrier/trailer with a low-profile neck with 1500 pneumatic pop-up ramp ideally suited for access, construction and agricultural equipment. The new range has numerous options tailored to the market with various rear ramp configurations.



Lifting Gear UK



Montracon trailer



Contact our sales team today to discuss your project requirements

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A photograph of the Tower Bridge in London, illuminated at sunset. The bridge's towers and suspension cables are silhouetted against a warm, golden sky. In the foreground, several tower cranes are visible on a construction site.

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Specialising in the hire, sale and servicing of tower cranes in the UK and around the world

Having built an enviable reputation for expertise, reliability and quality service to our clients, Falcon Cranes will give you the confidence and peace of mind to ensure that your site reaches its performance potential and meets that all important deadline.

As a truly national company, we have had cranes erected all over the country as well as mainland Europe.

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- LUFFING & SADDLE TOWER CRANES
- SELF-ERECTING & CITY CRANES
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- TRAINING ACADEMY
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A photograph showing a yellow tower crane at a construction site. The crane's lattice structure is prominent, and it is set against a clear blue sky.

400+
SADDLE, LUFFING
& SELF ERECTOR
UNITS

120+
GENERATORS

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Vertical days

Stand No. 207



The Blackpool Tower



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INSULATED PLATFORM



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Myerscough College: Stand MP9

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

Nolim: Stand 507

Nolim is one of the largest European suppliers of outrigger pads and road mats. It also supplies stowage for outrigger pads, slide on outrigger shoes and Containershield. It also provides stainless steel brackets for single and double stowage suitable for 300, 400, 500, and 600mm pads.



Nolim outrigger pads

Orlaco: Stand MP26

See Cranesafe

OTR Wheel Engineering Europe: Stand MP13/14

OTR will show a wide range of aerial work platform wheel assemblies, black and non marking tyres, foam fill services and solid wheels for electric slab scissor lifts.

Outriggerpads: Stand 510

Outriggerpads will show a range of different sized outrigger pads, including large crane pads and interlocking multi mat ranges. It will also display its new SmartStore, which can safely store up to 26 mats, and is designed to increase on site productivity and helps to protect operators from unnecessary lifting.

Paragon Bank: Stand MP31

With 30 years of experience in asset finance, Paragon Bank Business Finance delivers financial solutions from straightforward 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.

Plansafe Solutions: Stand MP15

Designed by engineers for engineers, Plansafe Solutions will show SafetyPro Engineer, a management software package that provides an all in one system. Using a handheld tablet on site the service engineer can download the client's previous examination report and the complete

asset register. Once they have completed their days work they synchronise with the server and the reports are produced for proof reading.

Platinum Batteries: Stand MP28

Platinum International is the UK master distributor for Trojan Batteries, it has no minimum order quantity or value, it has a next day delivery service and also provides a fully legally compliant scrapage scheme.



Trojan Batteries range

Power Jacks - Load Monitoring Solutions: Stand MP32

Power Jacks - Load Monitoring Solutions specialises in the manufacture of load monitoring equipment, electro-mechanical lifting and positioning products, in addition to offering specialist high precision machining and engineering services. On the stand will be a wide variety of load cell products, crane safety instrumentation and winch monitoring systems.

Power-Pads: Stand 400

See Crowland Cranes

Probst Handling Equipment: Stand 119b

Probst Handling Equipment will highlight a range of its material handling equipment, including vacuum and mechanical kerb lifters, all of which help eliminate bad manual handling practice, so that contractors can work efficiently within the manual handling regulations that are increasingly enforced on construction sites.

Materials handling equipment from Probst.



PSR: Stand 112/4

See Genie

Rayco Wylie Systems: Stand MP17

Rayco Wylie will show its new



The new i4000 from Rayco Wylie.

i4300 Rated Capacity Indicator, the successor to the W2245. The i4300 features a 4.3 inch colour screen, USB connectivity, full on-screen collaboration and CANbus communication. Also on the stand is the i4500 series of Rated Capacity Indicators, developed to meet the latest regulations/standards while maintaining simple, clear information for the operator. This will also be a chance to see the i4000 multipurpose indicator range which will be available later this year.

RidgeGear: Stand MP6

See Unitek

Rima: Stand MP19/20

Rima industrial components will show its range of mechanical parking jacks, hydraulic cylinders and stabilisers as well as industrial turntables and slew rings.



Rima hydraulic cylinders.

Ritchie Bros Auctioneers: Stand MP30

As the world's largest equipment auctioneer, Ritchie Bros will be demonstrating how its unreserved auctions can be a practical method for disposing of equipment retired from the rental fleet.

SafetyLiftinGear: Stand 503

SafetyLiftinGear is a supplier of lifting gear, material handling, load restraint and height safety



Material lift from SafetyLiftinGear

equipment and products for working in confined spaces. Brands include LiftinGear, Easy-Rig Aluminium Gantries and Euro Slings. It will show new products from Easy-Rig Aluminium Gantries and Counter Balance Guil Material Lifts.

Sanctuary Zone: Stand 219

See Aerial and Handling Services

Shawtrack Services: Stand 202

Shawtrack will display examples of its custom-built truck bodies including a new body for a 12 tonne Iveco chassis with slide together aluminium ramps. Shawtrack has also been appointed as a supplier for Kassbohrer low bed trailers, ranging from 48 to 64 tonnes.



12 tonne truck with Shawtrack sliding ramps

Shield Batteries: Stand MP24

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



Crown Batteries will be on the Shield stand.

INTRODUCING THE **MANITOU 280 TJ**

Max. outreach

21.4m

27.7m

Working height max.

Max. basket capacity

350kg

3 operators

TELESCOPIC JIB

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

BASKET

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

STRUCTURE

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

TURRET

The TJ range is equipped as standard with continuous rotation.



THE MANITOU ACCESS RANGE

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

 **MANITOU**
HANDLING YOUR WORLD

SKM Asset Finance: Stand 505

SKM Asset Finance has been supporting the UK construction industry for 20 years and is a finance broker dedicated to the sector. The company aims to source competitive deals through its established relationships with funders, whilst also offering bespoke vendor schemes for manufacturers and dealers. To celebrate the 20th anniversary, the company is running a business card draw with the lucky winner taking home a case of Vertik Ale which has been specially bottled by The Winkle Beer Company. The winner will also receive a free tour of the micro brewery with up to five guests, so drop your card in the box on the stand before 3pm on the Thursday to be within a chance of winning.

SpanSet: Stand MP12

SpanSet designs, manufactures, supplies lifting, load control and work at height safety products. It will display its Exoset range of grade 100 lifting points and the Grabba lifting bags along with a range of working at height products, including full body harnesses, lanyards and the Gotcha rescue kits. The company also offers inspection and training for users of its products and will run a 'Get Your Kit On' competition on its stand, where you can race against time to correctly fit a harness. The winner will take away a bluetooth speaker.



Safety harnesses from SpanSet.

Steadplan: Stand 223a

Leeds based Steadplan distributes all makes of commercial vehicles and trailers.

Sterling GP: Stand 119a

Sterling GP supplies rigid delivery truck bodies to the rental industry. Clients include Nationwide Platforms and AFI Uplift and it has recently become the approved

supplier for the Access Alliance. The company will launch two new innovations at the show, including its first new Step-Frame low loader and a new concept, the 'Kargo King' body, a low-profile roll-on, roll-off body mounted on a DAF 12 tonne chassis.

Syrinx by Point of Rental Software: Stand MP8

Point of Rental Software provides hire software to over 4,700 rental locations worldwide. Products include Elite, which delivers a customised ERP software for hire corporations, Expert is a full-featured software for advanced hire businesses, Syrinx software optimises complex processes for hire depots of any size and Essentials is a cloud-based software for straightforward hire operations.

Tackle Store: Stand 503

See *SafetyLiftinGear*

Thermoil: Stand 209

See *IAPS*

TMC Lifting Supplies: Stand 400

See *Crowland Cranes*

Top Service: Stand MP16

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 Brokers:** Stand MP35

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

Trackunit UK: Stand MP34

Trackunit supplies access control and telematics to the aerial lift industry. Its access control technology was developed in collaboration with IPAF - which allows deep integration between the IPAF operator log and its PAL Smartcard system. The company has recently launched a new Dual ID keypad which is IP69 rated and its Go operator mobile app, which connects the operator to the

machine via a smartphone to carry out tasks such as pre-use checks.

Trimble Lifting Solutions: Stand 400

See *Crowland Cranes*

Trojan Batteries: Stand MP28

See *Platinum Batteries*

TuffTrak: Stand MP11

See *Checkers Safety Group*

TVH: Stand 206

TVH will show its new compact and easy-to-install hydraulic generator which can be connected to the hydraulic circuits of aerial work platforms, earth-moving equipment, trucks, cranes and other construction equipment. The company also offers a wide range of replacement parts for aerial work platforms and telescopic handlers including safety equipment, ground support plates, anti-theft systems and liftCam. It will also host a competition to win a children's Mini.



TVH's new hydraulic generator.

Unitex UK: Stand MP6

Unitex UK is one of the world's leading manufacturers of webbing, height safety and lifting equipment with a history dating back over 100 years. Product ranges include RidgeGear fall prevention/protection systems and Miller Weblift lifting and load restraint solutions with safe, low-cost, good value lifting and lashing solutions.



Unitex slings.

Universal Crane Mats: Stand 500

Universal Crane Mats, the independent supplier of outrigger mats and spreader systems for cranes and other heavy equipment, will exhibit a wide range of load



UniMat by Universal Crane Mats

spread products including the UniMat Modular Aluminium System. The UniMat Wheel Levelling System incorporating its UniMat Aluminium Modules and Extreme High Density Foam Ramps. Aimed primarily at the platform market to promote level machine setup, the system also facilitates ease of access onto heavy-duty load spread mats for rubber tracked spider lifts and cranes.

Verope: Stand 501

See *Latch and Batchelor*

Vertikal Press: Marketplace

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

Vertikal Press

Welton Media: Marketplace

Welton Media uses videos and other material to promote companies within the construction and equipment markets. It aims to bring a company's personality to life, whether it is a whole rebrand or just a new look on some company documents and website. The company is offering a special deal for the show - any marketing booked in within 14 days of the event will receive a 20 percent discount, and is running a competition for a half price client testimonial video package.

Winlet: Stand 211/2

See *Hird Group*

PLATINUM

 **Trojan**
BATTERY COMPANY
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No Boundaries...

Whether you own Access Platform machines or manage an entire fleet, battery performance matters. And when it comes to deep-cycle batteries, no one goes to the extremes of performance like Trojan.

- No Minimum Order Quantity
- No Minimum Order Value
- Next Day, Own Fleet Delivery Service
- Nationwide Service
- Full Technical Support & Field Sales Support
- Comprehensive Product Range



We want your old batteries!

For more information, call us on 0845 063 9999

Alternatively contact: sales@platinuminternational.com or visit www.platinuminternational.com

Competitions, special deals & promotions

A S Joysticks: Stand 504

New exhibitor A S Joysticks will enter your details into a raffle for a five litre barrel of locally brewed real ale. All you need do is post your business card in the box on the stand to enter.



AmerParts: Stand 217a

New boy to the UK parts replacement business AmerParts will host a competition which all exhibitors can enter to win a few laps around the Silverstone Formula One track in the Ferrari F430, which you will see displayed on the stand. Simply drop by and fill in a competition form. The winner will be announced on the Thursday of the show.



APS: Stand 209

Celebrating its 30th birthday this year, APS will host a competition using two car simulators on which visitors to the stand can race each other to win prizes. There will also be a fastest lap competition for the more competitive ones amongst you.

Checkers Safety Group: Stand MP11

New exhibitor Checkers Safety will challenge you to guess the weight of the outrigger mat, the size of which will be confirmed at the show - so that you can't Google it first! The first prize is dinner with the CSG team. Perhaps more interestingly it will have a show special - a 400 x 400 x 40mm, 10 tonne capacity outrigger mat for just £19 plus VAT. The deal is only available at the show though so don't miss out.

Falcon Tower Crane Services: Stand 303

Falcon will be offering visitors to the stand a chance to win a luxury hamper from Fortnum & Mason. All you need do is drop your business card into a jar on the stand and one will be randomly selected on the Thursday of the show.



Hitec Lift Trucks: Stand 205a

Visitors to the Hitec stand who stop by and leave their business cards or contact details will be entered into a draw to be held after the show, where one lucky winner will win a trip to Italy, including flights and accommodation for two people for one night in Bologna, Italy. The trip will also include a visit to Cesab's production facility.



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

SKM Asset Finance: Stand 505

To celebrate the 20th anniversary of SKM Asset Finance, the company is running a business card draw with the lucky winner taking home a case of Vertik Ale which has been specially brewed and bottled by The Wincle Beer Company. The winner will also receive a free tour of the micro brewery with up to five guests, so drop your card in the box on the stand before 15:00 on Thursday to be in with a chance of winning.



SpanSet: Stand MP12

SpanSet will run a 'Get Your Kit On' competition on its stand, where you can race against time to correctly fit a harness. The winner will take away a Red 5 Hexagon T900 Bluetooth Speaker. The more competitive among you can then check your times against others. But remember its not all about speed - if the harness is not fitted correctly it does not count.



TVH: Stand 206

Replacement parts specialist TVH will host a competition on its stand to win a fantastic battery powered children's Mini. So if you have young children - or grandchildren - this is one to go for.



Unitex UK: Stand MP6

Visitors to the Unitex stand will be given the chance to get a discount code to get 10 percent off their first purchase on Chaser, the company's new lanyard range, when it is launched in June. So check out the latest in lanyard design and pick up a coupon.

Versalift: Stand 207

Visitors are invited to take the Landmark Challenge on the Versalift stand for a chance to win £150 of hotel vouchers.



Welton Media: Marketplace

Welton Media is offering a special deal for the show - any marketing booked within 14 days of the event will receive a 20 percent discount on the quotation. It is also running a competition for a half price client testimonial video package. If you want to step up your marketing efforts it will definitely be worth your while to check it out.

NEW HYBRID: A GAME CHANGER BE READY, BE GREENER



The 20 m (65 ft) Genie® Z™-60/37 FE fuel electric boom lift is a revolutionary new '2-in-1' concept that offers rental owners the choice of investing and managing their fleets differently. Combining the powerful 4WD rough terrain performance of traditional diesel booms with the quiet, emissions-free operation of all-electric machines, this 'true' hybrid offers more opportunities than ever provided by a single machine.

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Hi-tech aids performance and safety

It has been almost 50 years since man first walked on the moon - an amazing achievement at the time considering the technology of the day was analogue and the most basic of computers the size of a house. Since then technology has advanced beyond all recognition, with the arrival of the internet and smart phones and is millions of times more powerful than NASA's computers in the 1960's. The pace of development, far from levelling out is accelerating at a pace far faster than engineers can keep up with.

The lifting sector has seen more than its fair share of the changes, with new developments almost weekly offering better, more efficient ways to buy, rent, maintain, or operate equipment. The buzz word in recent years has been 'telematics' - a combination of wireless technologies and computational systems. The word itself is derived from the French word 'télématique' - a merger of 'telecommunications' and 'informatique' - coined in the late 1970s about the computerisation of society particularly the transfer of information using telecommunications. In the commercial market it now generally refers to vehicle telematics.

Development in all areas still continues apace but with other technologies now taking the limelight. If you thought Virtual Reality (VR) was the latest technology in the lift market, think again. Augmented Reality (AR) is now at the cutting edge with several access companies - such as Platform Basket and JLG - already working on integrating it into their product offerings - but it is still a little way off yet. The new technology sweeping in is aimed at providing easier, more cost-effective and efficient ways of carrying out everyday tasks. It is also no longer just about components but about how those components can connect with each other to create intelligent sub-systems that dynamically adapt



Remote controls with built-in screens can integrate camera feeds.



and respond to machine and user requirements.

Radio remote controls

One of the first popular uses of telecommunication technology in the lifting sector was the radio remote control of equipment such as loader cranes, self-erecting tower cranes and more recently aerial work platforms and spider cranes. On loader cranes take up for remotes now exceeds 60 percent and far higher on larger machines. While there are still users who prefer to keep equipment simple and supposedly more reliable and easier to fix, manufacturers know that the future is in the opposite direction and are driven to develop the very latest technology in order to keep themselves at the forefront of equipment design and production. Remote controls are of course an extension of the main controls that simply allow the operator to position himself in the best location to see the lift, and even move around the work area to gain a better perspective of the operation or keep a safe distance from the machine when necessary.

Manufacturers have strived to make the remote controller consoles as all-encompassing as the main controls on the cab, with ever more comprehensive and sophisticated graphic-displays. Those with built-in screens are also able to integrate camera feeds to display interchangeable live video footage from a number of cameras mounted on the equipment, eliminating blind spots and giving the operator an even better view of the work.

Italian company Autec has been at the forefront of such controls for self-erecting tower cranes for a number of years. Its AIR Series now include dual band radio frequencies - 433MHz and 915MHz - automatic frequency search at start up, this together with automatic frequency search at start-up means better reliability, faster response to commands and fast switching in case of interferences. The AIR also



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Autec has been at the forefront remote controls for self-erecting tower cranes for a number of years

includes a four light arrangement for system feedback, two or three-axis digital or analog joysticks, and a user identification function that allows the creation of individualised access avoiding unauthorised use and user tracking. The key holds the unique address of the radio control which is not reproducible and information that defines the operating mode. A tower crane for example typically has sensors that detect the weight lifted by the hook, the hook height, the position of the carriage on the jib, the load moment and the wind speed. Thanks to continual bi-directional communication, information on the status of the machine can easily be sent and displayed on the operator's remote control unit.

SiteZone personal safety monitors

Operator safety is currently one of the biggest drivers of new hi-tech products in the lifting sector. One of the latest to hit the market is SiteZone - a new telematics proximity warning system that uses sensors to alert site workers if they are straying too close to or in the vicinity of mobile cranes, telehandlers, aerial lifts and other vehicles or equipment. By combining it with Trakm8 telematics - which collects a huge amount of data used to score driver behaviour, monitor vehicle health and continuously improve the security and operational efficiencies of customers' vehicles - site managers can spot trends and eliminate

potential accident hot spots.

SiteZone uses RFID (Radio Frequency Identification) to produce a detection zone around the machine or even a restricted area. Using vibration as well as audio and visual alerts, it warns the machine operator whenever a pedestrian is within the vicinity as well as warning the wearer that their safety is compromised.

OverSite - which combines SiteZone's RFID technology with telematics and Big Data analysis from Trakm8 - goes one step further, by providing real-time alerts on zone breaches to site managers, as well as the analytics that contractors can use to identify and eliminate bad practice. Hosted in the Cloud, users can remotely access OverSite via a dedicated log-in. A dashboard provides key performance indicators such as the number of unauthorised breaches of a safety zone and the amount of time spent within it. The user-friendly system also enables managers to quickly generate reports that highlight key issues and trends. This helps companies effectively monitor the interaction on site between vehicles, equipment and personnel. Managers can then use the information take steps to change behaviour or provide re-training. Hot spots - where equipment and people are frequently required to work in close proximity - are easily identified and monitored more closely to help reduce the risk of further incidents.



SiteZone alerts site workers if they are straying too close to working equipment



A VR headset

Virtual Reality and Augmented Reality - VR and AR

Over the past few years an increasing number of companies have been developing Virtual Reality systems, primarily for training purposes. Most of the pioneers have been the large manufacturers such as Liebherr, Manitowoc and Hiab, although more recently there has been an explosion in the number of smaller software companies developing systems.

A prime example of how the technology is changing helping change the way we work is Hiab's HiVision, a VR remote control system which is now in production and deliveries underway. Developed for operators using its forestry cranes in very cold climates such as in Northern Scandinavia, the system allows the operator to remain in the warm cab and operate the crane from the passenger seat with his back to the crane and the cargo, avoiding the freezing conditions and risks such as slipping on ice when climbing to the elevated operator crane cab. And by doing away with the external cab the weight saved means more timber can be carried.

The system uses a camera with wide angle lens mounted on its own folding mast which sits about a metre above the slewing axis of the crane, giving the operator a 270 degree view of the both the crane and work area. The live image is seen by the operator using VR goggles sitting in the passenger seat with a set of joystick controls to operate the crane. A year after it had its first public showing, Hiab delivered its first crane equipped with the system to a customer in Sweden. The customer says that it only took a short time to become accustomed to the new system and that in addition to the stated advantages it has helped improve productivity, not only saving the time to reach the external cab, but also speeding cycle times, possibly

due to the improved view of the overall work.

VR training

The improvements in 3D graphics and software has provided developers with the ability to create life-like simulations, ideal for operator training of aerial work platforms and cranes etc... Now machine novices and the unexperienced can learn and experience real-life situations - some dangerous - in the safety of the training room environment. At Conexpo there were at least five companies offering VR training, some with compact light weight mobile units using a lap-top that can be used on any small table or desk with VR goggles, and others with full mock-ups of crane cabs or work platforms with motion seats or platform floors, both of which add a realistic feel to the audio visual output.

While the goggles are the best option in that no matter where the operator looks he remains in the virtual environment - this is particularly useful for crane operation when looking up to the boom nose and back down to the load is essential - some users can experience a sort of 'motion sickness' as the brain tries to



Rival managing director Norty Turner trying out JLG's VR training set-up

straddle the real and the virtual. To this end developers find keeping the virtual slightly unreal is best. Even some of the systems that use the large screens, can cause issues as movements in the motion seat reproduce the feel of large variables such as wind speed leading the 'operator' to feel quite queasy. However overall, all of the latest VR systems we have seen and briefly tested provide excellent training on a wide variety of machines, so the system chosen is likely to come down to the user requirements and budget.

AR versus VR?

Many companies are currently working on AR - Augmented Reality - but what is it and how does it differ with VR?

AR and VR are dissimilar but they have one thing in common - they have the capacity to alter our perception of the world. VR can transpose the user to another place through goggles, visor or screens, blocking out everything around. Augmented Reality takes the current reality and adds something extra.

One analogy may be comparing scuba diving to going to an aquarium. With VR you can swim with sharks, with AR you can watch a shark jump out of your desk.

Italian spider lift manufacturer Platform Basket - using a local software development company - is already demonstrating the first stages of an AR system which it plans to use to provide full information on each of its products. The long-term aim is to provide users with details about each machine such as workshop and parts manuals via a screen or Smart phone - all paperless.

Although still in the earlier stages it currently has all the performance information and a 3D scalable and rotatable image with features such as changing the colour schemes and adding or removing the various machine options, similar to an online car configurator. As the system advances it will include a breakdown of the machine with full parts diagrams and information on diagnostics and repairs.

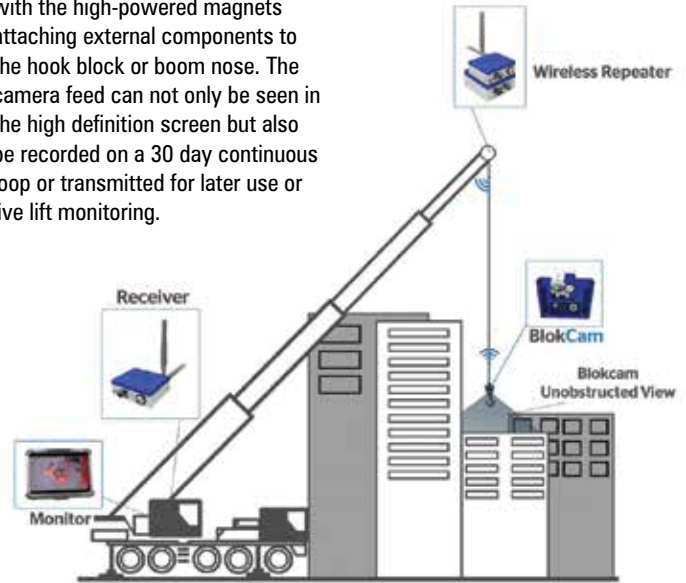
There are already a large number of systems that can collect an enormous amount of data from machines but what can we do with it? If there is a technical problem most machines can now generate a general fault code which can be transmitted remotely to the manufacturer or communicated by more traditional means. However, there are already products on the market, such as the Haulotte Activ Screen, that indicate exactly what and where the fault is with a full colour illustration and can even explain how to fix it! It is all about using the mass of data being generated in a user friendly interface.

Boom and hook cameras

While the original Orloco boom tip camera has been on the market for more than 15 years, lower costs and high definition cameras are making the technology more widely available and adoption of such systems is on the increase making lifts safer and more efficient by giving the operator a clear view of the load and surrounding area, even when it is out of direct view. This is such an obvious benefit that it must someday soon become standard equipment.

BlockCam is one of the more recent

wireless camera introductions, it can easily be installed to the hook block or boom tip of the crane with the live HD 1080p audio visual feed transmitted via an antenna system to a high definition screen in the cab. The information allows the operator not only to clearly see the load and surrounding area, but also hear what is going on and even receive instructions from the signaller/banksman without the need for a radio. A BlokCam system can be installed in about an hour with the high-powered magnets attaching external components to the hook block or boom nose. The camera feed can not only be seen in the high definition screen but also be recorded on a 30 day continuous loop or transmitted for later use or live lift monitoring.



Wireless camera systems such as from BlockCam can easily be installed giving the operator a clear view of the working area from the cab

Improvements in communication technology, computing power, higher resolution cameras and vastly improved batteries, together with highly accurate GPS is changing the way machines are designed, work and interrelate at a pace which manufacturers are only just beginning to understand. Those who grasp the potential at the right time will reap the rewards.





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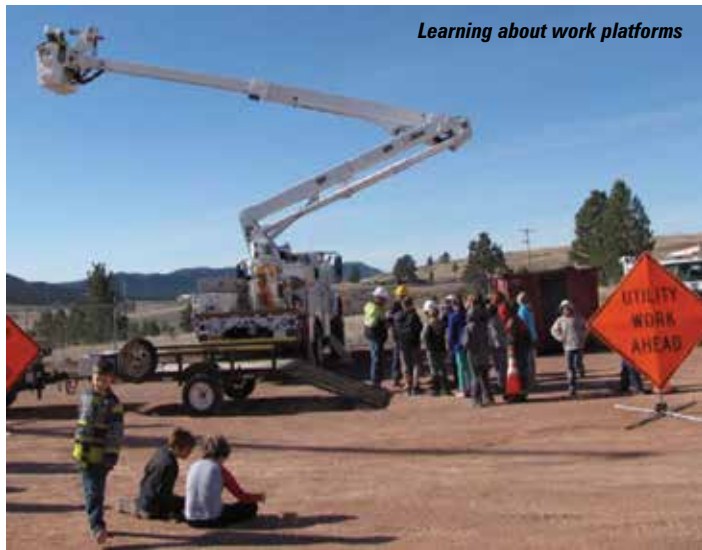
MEWP

All training centres above offer **IPAF/PASMA/CPCS** or other approved and audited training courses. European directives and most national regulations require that staff are properly trained in the safe use of the equipment they operate. If you wish to become a sponsor of the Training & Safety page opposite by advertising, contact us on info@vertikal.net

The dangers of overhead power lines

South Dakota-based Black Hills Energy and the Black Hills Electric Cooperative have joined forces to provide overhead power line educational sessions and demonstrations for school children.

The most recent event included a session for 60 pupils from the Hot Springs Elementary school at Black Hills' depot in Hot Springs, South Dakota. The company used its trailer mounted demonstration rig to show what happens when a person makes contact with an overhead power line. The children then went outside to learn about its aerial lifts and how they are used with some of receiving a hands-on demonstration. The sessions are aimed at educating youngsters on the dangers of electricity while perhaps interesting some of them in a career in the utility sector.



Learning about work platforms



demonstrating the power of electricity

Fall after leaving the platform costs £63,000

Kingmoor Park Properties of Cumbria in the UK, has been fined £55,000 plus costs of £8,599 after employee David Gill fell six metres through a skylight after stepping out of the platform of a boom lift while working on the roof of a building at Kingmoor Park, north of Carlisle.

Gill, in his fifties, landed on a conveyor and suffered a punctured lung and 17 bone fractures. The building was locked at the time and his son, who was working with him, was unable to get in to help him, in spite of trying to smash his way in with a hammer. Gill managed to drag himself to a fire door and escape in spite of his injuries.

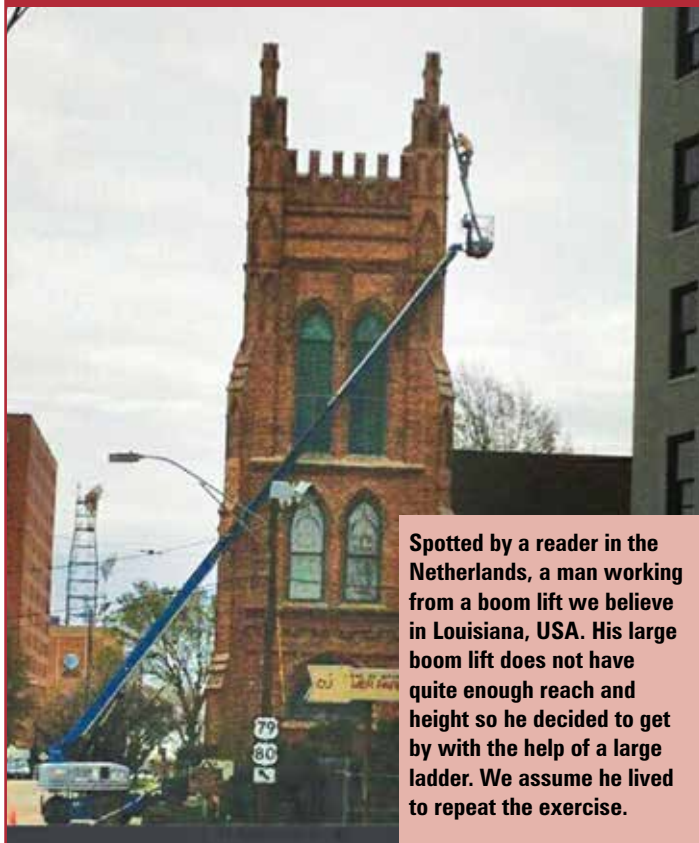
Their routine duties included unblocking gutters and non-specialist roof work such as fixing leaks - typically two or three times a month. If a roof repair was major, they would call in specialist contractors. The company's health and safety manual included a general risk assessment for the work platform the men used, but had not been brought to their attention, although they had attended a one-day training course in the safe use of the platform. In spite of this they were not harnessed in at the time.

On the day of the incident in April, 2014, Gill and his son used the boom lift to patch one roof and then looked at another roof job but decided to bring in a specialist. However Gill senior went back on the roof to retrieve some tools when the skylight gave way. He spent a week in hospital and was off work for three months. The prosecutor said: "It is accepted that there was no risk assessment and no safe system of work to address the risks of working at height. Neither Gill nor his son had been given training for roof work."

Kingmoor chief executive Ross Nicholson pleaded guilty on behalf of the company to a breach of health and safety law. Its lawyer said: "The firm is decent and reputable and had an unblemished record. Its response to the accident was exemplary, it had quickly settled a civil claim, compensating Gill, and given him full pay while he was off work and fully supported his son and wife. There were no systematic health and safety failings and the two maintenance men had used work at height equipment before. It is not as if they were not provided with personal protection equipment. They had all the equipment with them which would have allowed them to do this work safely. They were both aware that the roof lights were fragile. The firm also employs a health and safety contractor."

A statement said: "Kingmoor Park Properties deeply regrets the accident, which has been deeply felt by all in the company. Prior to the accident, the company had a good health and safety record and takes health and safety seriously and had no prior enforcement actions in 17 years of trading. The safety of employees has always been of paramount importance and it was not appreciated at the time that the documented work procedures were not sufficient."

Who trained them then?



Spotted by a reader in the Netherlands, a man working from a boom lift we believe in Louisiana, USA. His large boom lift does not have quite enough reach and height so he decided to get by with the help of a large ladder. We assume he lived to repeat the exercise.



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IPAF spans the globe

IPAF has posted another year of sustained growth, with a 6.6 percent increase in international membership and a 12 percent rise in annual revenues. 158,727 people completed an IPAF training course in 2016, almost 10 percent higher than in 2015, while the number of certified IPAF training centres increased to 680. Further new centres have joined in 2017, including Reachmaster in Houston, Texas and Boogart Technical in Kitwe, Zambia. In the UK and Ireland IPAF membership increased 3.5 percent to 466, while the most rapid membership growth came from Turkey - up 75 percent, China - 39 percent and the Middle East - 31 percent. IPAF issued a record 150,458 PAL Cards in 2016 - up 10 percent on 2015.

IPAF chief executive Tim Whiteman said: "With new powered access standards being introduced around the world and businesses concerned about how best to become compliant, IPAF training is still the global 'go-to' for operators and site managers alike. Our fantastic and hard-working network of trainers continues to expand, and it is their hard work and commitment that makes IPAF's voluntary training programme such an enduring success. The safe use of powered access machinery is the same wherever it is operated and IPAF aims to help operators and managers become compliant with the latest standards and to promote the safe and effective use of this equipment all around the world."



More information can be found in the IPAF Annual Report

IPAF white paper on new North American standards

IPAF has produced a white paper summarising the pending changes coming from the proposed new mobile elevating work platform design, safe-use and training standards. The white paper offers an overview of the new standards, highlights changes in general, in design and training for dealers/rental companies, and the impact for end users. It also offers advice on becoming compliant through IPAF training. It is anticipated that the new ANSI standards will be published this summer, with an effective date 12 months after publication. You can download the white paper from www.ipaf.org/en/resources/news/article/ipaf-issues-white-paper-on-new-north-american-mewp-standards



IPAF draft service technician guidance

Who is qualified to maintain Mobile Elevating Work Platforms is one of the questions that has vexed the powered access industry for some time. Now IPAF has taken the first steps towards developing internationally recognised qualifications for work platform technicians, by partnering with industry associations to develop new guidelines, outlining three different levels of service technician, and setting out expected skill-sets and competencies for those employed to inspect and service platforms. The first draft is now ready to be shared with the wider access industry, in order to develop the new framework and the terminology employed.

The draft guidance proposes three distinct levels of service engineer: Technician - a mechanic with mechanical training or experience but not necessarily aerial lift specific, a MEWP/Aerial

Technician, who is trained in the safety aspects of maintaining aerial work platforms and a MEWP/Aerial Master Technician, denoting specific qualifications for the appropriate machine and system, authorised to


perform all aerial lift maintenance, including non-standard procedures. The new framework also recognises an entry-level Apprentice Technician.

Tony Groat, IPAF's North America Manager said: "We initiated this more than a year ago as a by-product of discussion around standards development. We hope once the new framework is finalised it will help companies outline the expected competencies for each type of technician to their employees and ensure that inspection and maintenance tasks are being carried out by individuals with the appropriate level of knowledge and experience. We also hope it will allow the industry to identify skills and knowledge gaps and develop new training courses to assist technicians to skill up and to attain the next level of competency in the framework."

Chief executive Tim Whiteman added: "The industry long has struggled to define appropriate

language that may be adopted within industry standards to address service technician training and presently relies quite heavily on 'on the job' training. It was felt that there is a need for greater industry guidance towards standardisation, which prompted this project. We began with small group of members looking into it, which opted to begin with a short, concise document to increase industry buy-in and discussion. It is now time to expand the consultation and maximise the industry voices involved developing the draft, we hope that the industry as a whole will engage with the outline guidance and help take it forward into something that can provide a platform for industry recognised training and qualifications to be developed."





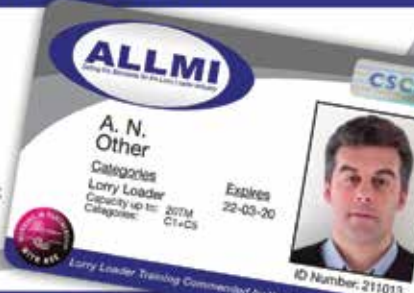

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Julian Elms of Palfinger importer, T H White, has joined the ALLMI instructor auditing team. As the lead instructor for T H White, and a member of the ALLMI Training Standards Committee, Elms has over 11 years' experience in the lorry loader industry and will be a valuable addition to the association's monitoring structure.



Speaking of his appointment he said: "ALLMI's auditing team is crucial to maintaining training standards and so I am very pleased to be a part of it. The Auditor Development Programme was extremely comprehensive, I now look forward to carrying out regular monitoring visits and providing instructors with any required support and guidance."

Julian Elms



Committee overview & updates

Early 2017 has been a busy period for ALLMI's committees and board, with each of them meeting throughout March and April.

ALLMI Training Standards Committee

Having the important role of developing and maintaining ALLMI's training standards, the committee met in March to discuss a forthcoming update to the association's operator course, as well as a Continuing Professional Development (CPD) facility which will soon be launched through the ALLMI website.

ALLMI Technical Standards Committee

As the consultative body for all technical and legislative aspects of the association's activities, the Technical Standards Committee met in April with the key task of reviewing new ALLMI Guidance Notes covering Thorough Examinations and Work at Height, both of which will soon be published. The committee also reviewed draft guidance for persons conducting Thorough Examinations on loader cranes mounted to waterborne vessels, a document which ALLMI is producing in conjunction with the Maritime and Coastguard Agency.

ALLMI Operators' Forum Executive Committee

The Executive Committee is elected by Operators' Forum members in order to represent their interests and progress matters on their behalf. Many of its activities feed into those of the Training and Technical Standards Committees, providing a fleet owner perspective. The committee's meeting in April focussed on a wide range of important issues, including the auditing of members, recruitment/retention, and also lone working, a subject for which ALLMI will develop a Guidance Note in 2017.

ALLMI Board

The board is elected by members to oversee all ALLMI activities and is responsible for managing the direction of the association. The board meeting in March included a discussion on ALLMI's current projects, as well as agreeing that a new area of the association's website would be developed in 2017, aimed specifically at promoting the lorry loader industry to young people and facilitating their contact with member companies. It was also confirmed that a new Guidance Note would be produced covering the subject of on-site risk assessments, procedures and behaviour, all in relation to service/repair work.

ALLMI chief executive Tom Wakefield said: "ALLMI's board and committee structure is fundamental to the running of the association. We are extremely fortunate that member companies, training providers and affiliated organisations, such as the HSE, are willing to commit valuable time to work on ALLMI matters, as their input facilitates the continual raising of standards for the betterment of the entire lorry loader industry."



ALLMI Membership Event 2017 – 11th October

ALLMI will build upon the success of its previous Membership Events with an industry wide get together at the Forest of Arden Marriott Hotel & Country Club in Meriden on 11th October this year. ALLMI chairman, Mark Rigby said: "Although we are still in the very early planning stages, we have already received a great deal of interest in what continues to be the largest gathering of lorry loader professionals in the industry's calendar." Chief executive Tom Wakefield, added "Our preparations will take shape over the next month or so and we look forward to keeping members, as well as the wider industry, informed of developments. In the meantime, we would ask all stakeholders to mark the date in their diaries and to contact us if they have any queries regarding the event."



EN 12999 update

The revision to EN 12999 is currently being finalised and should be published in the coming months. This European Standard specifies minimum requirements for design, calculation, examinations and tests of loader cranes, and their mountings on vehicles or static foundations. Look out for updates in future issues of Cranes & Access, including ALLMI's guide to the changes this will bring.



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

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Removal of annual MOT exemptions

The Department for Transport is proposing to remove certain vehicles from the list of exemptions from the annual Heavy Goods Vehicle MOT test. New legislation is planned to be released this month and if it is enacted, will come into force in May 2018. The vehicles affected will include mobile cranes on a lorry/commercial truck-based chassis, mobile concrete pumps, vacuum excavators and truck mounted aerial work platforms. This will effectively mean that these vehicles will be subject to the annual HGV MOT test from the proposed date of May 2018.

However, mobile cranes on bespoke chassis, which make up the majority of the UK fleet, will remain exempt from the annual MOT test, as they come under the STGO (Special Types General Order) regulations. To assist its members demonstrate the roadworthiness of their mobile cranes, the CPA, with the approval of the Department for Transport, is drawing up a voluntary roadworthiness inspection and testing scheme, based on the current HGV MOT. The aim is provide CPA members with a robust scheme, having the required degree of independence, to demonstrate to both customers and the public the effectiveness of their maintenance regimes. Further information will be released by the CPA as soon as it is available.

Additional guidance on mobile crane maintenance is also available via the CPA website. The CPA Best Practice Guide on Maintenance, Inspection and Through Examination of Mobile Cranes can be downloaded free of charge at www.cpa.uk.net/crane-interest-group-publications-guidance



CPA Plant Conference 2017

The CPA's Annual Plant Conference will take place on Tuesday 31st October and be held for the first time at an impressive new venue, the Heart of England Conference and Events Centre in Fillongley near Coventry. The conference will cover many key issues affecting the construction equipment and rental sectors. As in previous years, the event will have a display area to showcase the latest products and services.

Attendance is open to anyone who has an interest in, or influence over, supplying or procuring construction equipment and interested parties will soon be able to register interest online via the CPA website.



Research on telehandlers overturning

The Health & Safety Executive (HSE) has released a report entitled Exploring the Human and Physical Factors Associated with Telescopic Handler Overturning or RR1085 for short. The research was undertaken to identify human factor issues that may contribute to overturning incidents and to identify any operator knowledge gaps that may increase the probability of overturning.

The report noted that a combination of machine instability and human factors were important aspects of overturning incidents. A telehandler is more likely to overturn when the boom is raised or

extended whilst on soft or uneven ground. This causes lateral (side to side) instability and not longitudinal (front to back) instability. Some operators were not aware of the factors that cause lateral instability, and weaknesses in site management and supervision further increase the risk of overturning. The report concluded that the installation of lateral instability warning devices could help reduce overturns by warning operators before a critical threshold is reached.

The Strategic Forum Plant Safety Group, chaired by the CPA, has already produced comprehensive guidance on safety with telescopic handlers, including the handling of suspended loads and operator training requirements. The work undertaken by the group is noted in the HSE's research report and the group both welcomes the report and is satisfied following analysis of RR1085, that the factors noted around overturning issues are already contained with their guidance. The RR1085 report and the Strategic Forum Plant Safety Group guidance documents can be downloaded free of charge from www.hse.gov.uk and www.cpa.uk.net respectively.



Stars of the Future

The CPA hosts its annual awards scheme Stars of the Future in conjunction with the Plantworx exhibition on Tuesday 6th June in Hangar-42 Events Centre adjacent to the showground. The scheme is run in conjunction with all UK colleges offering plant mechanic apprentice training and is supported by CITB.

The awards are for plant mechanic apprentices who have been assessed throughout the academic year on their work in college and their work environment. This year's awards are being held in association with sponsor A-Plant which has more than 150 apprentices.



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PASMA training courses for Middle East



PASMA has introduced three training courses for end users in the Middle East region. They are available to book through local, approved training centres. The courses are:

- Low Level Access
- Combined Low Level Access and Towers for Users
- Work at Height Essentials

Low Level Access is a half-day course catering for users of low level access equipment such as podiums and pulpits which, if appropriate, can be combined with PASMA's flagship training course, Towers for Users.

Work at Height Essentials is also a half day course and focuses on the fundamentals of height safety - from ladders and mobile access towers to mobile elevating work platforms and scaffolding.



PASMA training is now available in the Middle East

PASMA's head of international development, Sarah Nunn said: "We work closely with government, safety organisations and industry across the region to promote safety and best practice. Professional training is an integral part of that process. These courses, delivered by expert local instructors trained specifically by PASMA, will equip users with the knowledge and skills they need to keep safe when working at height - still a major cause of deaths and injuries in the workplace."

"Every instructor has been carefully selected and trained to the highest standards based on the latest techniques, guidance and industry knowledge. Their experience and expertise will be invaluable to anyone working at height."

The association has recently launched the PASMA Safety at Height Advisory Panel to promote safety in the Middle East.

PASMA members' conference

Booking is now open for this year's PASMA Members' Conference which will take place at Coombe Abbey on Friday, 7th July. A highlight in the PASMA calendar, it provides a unique opportunity to review the association's recent achievements and to reflect on current developments - including the conversion of PAS 250 to BS 8620. More at www.pasma.co.uk



Technical officer required

The association is currently recruiting a permanent, full-time technical officer with the relevant knowledge, experience and qualifications to assist and support the PASMA technical director on a day-to-day basis both in the UK and overseas. A full job description is available on the PASMA website.

PASMA reaches out to small businesses

As part of the Access Industry Forum (AIF), PASMA has contributed to the first of a proposed series of 'Working Well at Height' events organised jointly by the Forum and members of the Health & Safety Executive's national Working Well Together campaign. Held in Plymouth, the free, half-day event attracted small to medium sized enterprises and the self-employed from all sectors of the roofing and construction industry, all of whom were keen to learn more about safe working at height.

The event included talks and practical demonstrations, and the AIF was represented by PASMA - together with EPF, FASET, IPAF, NASC and the Ladder Association - all of which provided best practice advice and guidance for builders when using towers, edge protection, safety nets, MEWPs, scaffolding and ladders respectively.

Every delegate received a copy of the latest AIF Pocket Card giving basic information about height safety, together with the contact details of all eleven member organisations of the Forum. The event generated considerable interest amongst those attending, in particular the opportunity to ask questions of the various experts representing the associations and federations taking part.



London Work at Height Seminar

PASMA will take part in the 2017 London Work at Height Seminar on Monday, 10 July, which will be held at the Guildhall in London.

The seminar, comprising technical presentations and equipment demonstrations, is supported by the City of London Corporation and is aimed at local government officers, health and safety professionals, and building and facilities managers involved in working at height in the City of London and beyond.

Home to the City of London Corporation, the Guildhall provides a unique backdrop to national events and celebrations and is the host venue for the annual Lord Mayor's Banquet. Registration is from 09.00 to 09.50.

More information at www.lwahs.co.uk



For details of PASMA standards, guidance and training, including free PocketCards and posters, visit: www.pasma.co.uk

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The scaffolding sector's leading guidance for tube and fitting scaffolding - NASC's TG20:13 - is now available at half price. The reduction came into force in March and since then more than 65 full suites and 1,550 User Guides have been distributed. The TG20:13 'Full Suite' of guidance is supported by CISRS, Build UK, HSE and CITB, and comprises four distinctive publications, including two comprehensive A4 books and innovative new software the TG20:13 e-Guide, together with a pocket-sized User Guide.



Managing director Robin James said: "Following a consultation exercise last year, an NASC working group was formed to review feedback and agree modifications and amendments to TG20:13. Suggested amendments included varying the number of boarded lifts, production of basic drawings and calculations, and increased leg load information. It was also suggested that modifications might be made to the TG20 compliance sheet, for example incorporation of postcode, unique scaffold number and seasonal information. These will be incorporated into a free software upgrade to existing users of TG20:13, with more substantive changes incorporated in due course."

For further details visit www.nasc.org.uk or email: enquiries@nasc.org.uk.

NASC & CISRS support AIF

NASC and CISRS took an active role in the recent Roof Work and Work at Height training event, organised by the Access Industry Forum as part of the Working Well Together campaign. The half day event was aimed at offering small construction companies and self-employed builders, support, advice and up to date industry guidance and was hosted by LTC Training Services in Plymouth.

The event included talks and demonstrations covering work at height, roof ladders, powered access, scaffold inspection, prevention of internal and external falls, and tower scaffolds. Attendees also had the opportunity to ask questions of the industry experts, including a number of HSE inspectors.



CISRS CPD pilot course

CISRS ran two fully-funded CPD refresher pilot courses during February and March, delivered by lead Instructor Tony Barry. Attendees ranged from one scaffolder who had gained his card via 'grandfather rights' and others who qualified over 20 years ago, while others completed their training in the past five years. The pilot courses were designed to road test and fine-tune the course content. Barry said: "I was a little uncertain as to how the course would go having both older more experienced Advanced Scaffolders mixed with younger scaffold card holders - but it worked well and created more discussion. Other than the inspection module which required us to split the group into Basic and Advanced inspection all other information passed on was relevant to both grades of cardholder."

Eligible delegates who took part in the pilot courses will receive their updated CISRS card with CPD, Inspection and Aluminium Tower module endorsements free of charge. CISRS is considering more funded pilot courses, prior to the scheme going live in July, after which all CISRS Scaffolder and Advanced cards can only be renewed by completing the CISRS two day Scaffolder Refresher Course.

A full list of approved CISRS training providers, further details on CISRS CPD, CISRS card courses, OSTs news, training changes following the introduction of SG4:15 and TG20:13, and more visit www.cisrs.org.uk or email enquiries@cisrs.org.uk.



New Oman CISRS training centre opens

A newly accredited CISRS Overseas Scaffolder Training Scheme facility has opened in Oman. The new centre situated in Nizwa represents a strategic base for scaffolding training - providing support to the major oil related industries in Oman. The project is being driven by UK CISRS provider Safety and Access and the established Oman-based service provider, Special Technical Services through its training arm Technical Training Institute. The new centre will run a wide range of CISRS scaffold related training - including scaffolder operative training, scaffold inspection and scaffolding supervisor courses.

Rick Statham of Safety & Access said: "The new centre represents a very important strategic location for us. We have been offering accredited training in the Gulf for over four years and can see the requirement for quality training growing. It is yet another major step forward for the clients in the region to affirm their strict requirements for high standards of safety and technical delivery with the requirement for independently accredited training in the high-risk area of scaffolding and work at height. STS' excellent centre here in Oman will greatly complement the expanding need for such support for clients and contractors across the region."



The new CISRS Scaffolder Training centre has opened in Oman



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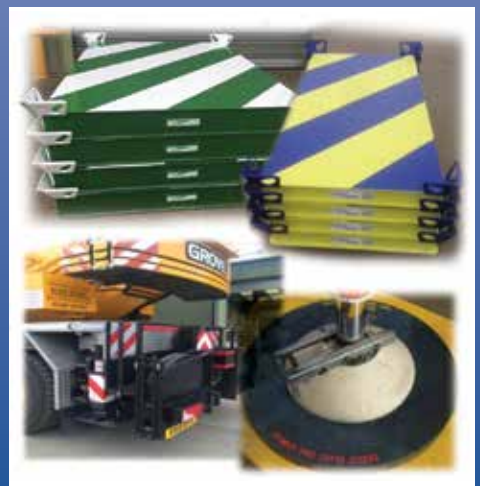


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Genie Z-60/37FE

The Genie Z-60/37FE is a 60ft articulated boom with a working height of just over 20 metres, and a maximum outreach of 11.2 metres. It comes in two versions - the FE version is a Fuel Electric hybrid, while the DC version is battery only. Both versions weigh under seven tonnes and the real units feature direct AC electric wheel drive motors. NZG Models has produced 1:32 scale replicas of both machines with the differences being the graphics and the colour of the tyres. The model reviewed here is the FE version.

There is no detail underneath the model, with the undercarriage hollow, and with a purely functional layout. It is metal and there are simple graphics at each end. The rubber tyres have a realistic tread pattern. The model rolls well and the steering axle also has some oscillation. The steering angle is very good.

The superstructure body has a heavy feel and a nice curved shape. The detailing though is limited to the indented Genie logo to replicate the cast counterweight on the real machine, and a control panel on one side which has the emergency stop button highlighted.

The dual riser and telescopic boom

sections are engineered in metal with fairly discrete connection rivets, and the hydraulic cylinder barrels are plastic with simple pipe detail, but there are no hoses shown on the model. The riser section of the boom works well and the cylinders are stiff enough to hold a pose.

The main boom lift cylinder also has reasonable stiffness. The telescope section extends smoothly and there are three locking positions.

The platform is mounted on a small metal articulated jib with a full range of movement, and the platform rotation works to a full 90 degrees in each direction. The guardrails are metal and there is a nice mesh floor, and a simple control console is modelled.

At full height this is a big model some 600mm tall, which is close enough in scale to the real machine, and it is stable at full reach too. NZG has produced a nicely engineered model of the Z-60 and it is typically heavy with a high metal content. The detail level is not high, but the model looks good on display. It costs £85 from the Genie web shop.

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

Maximum height



Cranes Etc Model Rating

Packaging (max 10)	7
Detail (max 30)	18
Features (max 20)	16
Quality (max 25)	20
Price (max 15)	11
Overall (max 100)	72%

The Z-60 waiting for transport



Control console on the side



Oscillating axle

Poses of the real machine can be replicated



Readers

Letters



The following open letter was sent to the CPA by contractor St James Group, regarding an incident in London with a telescopic crawler crane. The letter refers to a report that has now been published and fully details the cause of the incident. The report is an ideal document which provides lessons for rental companies, manufacturers and end users alike. Imagine how safety and development would progress if this was the response to every incident?

Mr Haydn Steele Crane Interest Group,
Construction Plant-Hire Association,
27/28 Newbury Street,
Barbican, London, EC1A 7HU
14th March 2017

Dear Mr Steele,

St James Crawler Crane Incident (9th January 2017)

On 9th January 2017, a serious incident occurred at a St James Group construction site that involved a Hitachi-Sumitomo SCX400T hydraulic crawled crane.

During the lifting of a compressor, the crane's boom began to rapidly descend toward the ground due to a mechanical system failure. The incident was reported to the Health and Safety Executive as a Dangerous Occurrence on the day of the incident (F2508 reference: 57D39D61 DF).

A joint investigation was undertaken with Eagle Crawler Crane Hire Ltd (the crane owner) and NRC Plant Ltd (UK distributor for Hitachi-Sumitomo Cranes).

All parties have agreed that the direct cause of the telescopic boom collapsing, was the fracturing of an adaptor that mounted a hydraulic gauge snubber and pressure transducer to the hydraulic actuator supporting the telescopic boom. The 'hole' left by the adaptor allowed hydraulic oil to leak out of the system and the boom to rapidly collapse to a horizontal position.

NRC Plant have confirmed that the mounting adaptor was fitted as original equipment to the crane by the Hitachi Cranes European importer/representative. An independent report by Penenden Engineering suggests that the likely cause of the adaptor fracturing was metal fatigue - Hitachi Sumitomo do not specify a service life for the failed part.

We draw this incident to your attention, as we believe there is a potential misperception within the construction industry, that hydraulic cranes are fitted with check valves that prevent hydraulic system failures resulting in such incidents.

St James Group deem it has a professional and moral duty to raise this potential design failure with the CPA Crane Interest Group. Could we ask that you please bring the matter to the attention of your members and in turn raise the matter with manufacturers.

We would be willing (subject to legal approvals) to share the CCTV footage and reports, if you so request it.

Yours Sincerely,

Brian Orminston

Head of Sustainability/Health & Safety
ST James Group

The report simply provides greater details of what it covers, along with good photographs from the scene and the failed components. This can be seen on line at www.vertikal.net/en/news/story/27858/

Staying on safety bulletins we received three letters/emails this month on a new protocol for the writing of Safety Alerts mainly because we were a little slow to publish it online. The fact is that a well-meaning contractor's health & safety officer may draft what might be intended as an internal alert to warn colleagues of an incident involving a machine, often standing down similar machines while an investigation continues. The problem is that those receiving the alert share it with friends at other companies and within a few hours it goes viral causing a major issue for a specific machine which may well not have been at fault in the first place.

Dear Leigh,

The Strategic Forum Plant Safety Group - MEWP Safety Group has published a Safety Alert Protocol following members' concerns of specific instances where safety alerts had either been issued with incorrect information, or without notification or consultation with parties identified in the bulletin or recirculated bulletins years after the original incident.

As you are aware, the circulation of factually incorrect, misleading or poorly written information contained in a safety alert can and does repeatedly cause unnecessary confusion within the industry. Once issued the author loses control of the document, as it is passed from company to company around the world, often being re-issued or rebranded with a different company letter head and frequently re-appearing years after it was first issued. In some cases, the misinformation has had the opposite effect to that intended by the author and negatively affects confidence with a specific machine or manufacturer, which may ultimately compromise safety in the workplace. It was specifically to address these concerns that the Safety Alert Protocol was drafted and approved by the group.

The document is now being presented to other industry groups such as CONIAC, CPA's Cranes Interest Group and BuildUK, for their consideration with the hope that it can be adopted, supported, promoted, by other organisations and for other types of plant, bringing uniformity and consistency to address an issue that goes beyond aerial work platforms and the UK market.

I have been watching the Vertikal website in the hope that you would publish a news item bringing the document to the attention of your wider readership, but as yet have not seen one. Is that for any specific reason? Did you receive any notification from CPA or IPAF? I would really appreciate it if you would consider publishing a news article bringing it to the attention of the industry. Or if you feel that is not possible I would love to understand and appreciate your reasoning.

Kind Regards

This letter was an amalgam of two of the letters we received and given that it mixes words we thought the right thing to do was not to publish the writers names. As to why we did not publish the announcement right away? No reason apart from pressure of too much work for our small staff with a spate of exhibitions and events in the first few months of the year. And it then got overlooked for a week or two. It is a subject close to our heart and we have published it in full and hosted the protocol in the Library section of our website www.vertikal.net/uploads/tx_filelinks/mewp-safety-alert-protocol_-2017-02-15.pdf



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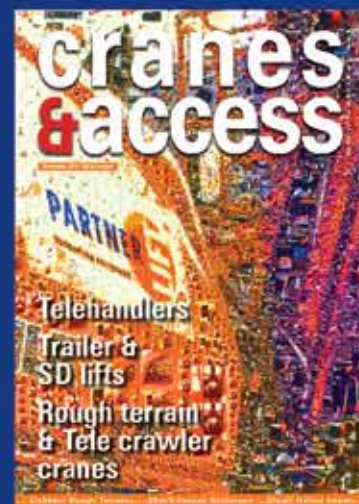
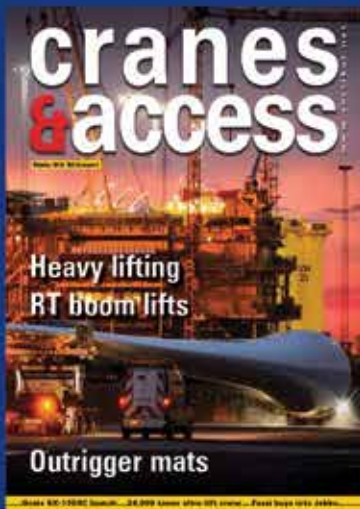
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Dear Leigh.

I hope you are well.

Please see attached some photos of our Grove GMK4100L crane that 'rolled over' last Thursday evening. We are all very quick to publish our 'good news' stories (eg, new crane arrivals, recent project awards, pictures of spectacular lifts and events we are involved in) but the reality is that events like this incident happen us all and if we all were to share our 'bad news' stories it might serve to:

1. Highlight the risks to some who may not know.
2. Maybe help avoid a similar event occurring to another company.
3. Detail the impact an event like this has on a) a small company like ours b) those involved in the recovery operation & c) the environment.
4. Discuss preventative measures.

The crane was being escorted along a route that was unfit to carry it and despite HEROIC efforts by the operator to save it - the road split and he hadn't a chance.

Our operators are told that, in the event of road subsidence - make every effort to extend the outriggers on the 'good side' and if the ground is good enough to carry the crane for such time that 1 x (or better with 2) excavators can be sourced to apply weight on the outriggers - this acts as a levering effect that will stabilise the crane and in many cases be sufficient to allow the crane to be removed using crab steer. (this is the best tip I can offer any crane user - it should be discussed with all operators as it DOES work).

So no, the crane wasn't driving with its outriggers extended as I have heard said, what a ridiculous, ill-informed comment.

The crane is upright again after 4 days of hard work by a fantastic team of lads, but it will be a further 3 - 4 days before the operation is complete to allow time to safely remove the recovery crane and winch vehicle, gather up all the equipment that was required, and to reinstate the surrounding area to leave it as it was prior to the incident.

I will issue a full report in the coming days, but I would like to take this opportunity to thank all those who helped with the recovery, the many offers of help and assistance, texts and e-mails of support etc and also to advise the 'haters' that you should not laugh at others misfortune because it is very true that this is indeed, 'out there waiting on us all'.

Thanks Leigh, and kind regards,

Cathal McNally

BOSSLIFT

We applaud Cathal McNally and his team, it is true that with the best will in the world an incident such as this can happen to the best in the business. By sharing the details we can all learn, while highlighting the risks of access to remote sites. Hopefully this and the letter from St James are signs that the industry is beginning to adopt a more mature and open attitude towards reporting on such incidents which will have a positive impact on long term safety.



Norman Kelsey

1941 - 2017

We received the news in mid-April, that Norman Kelsey, a former national service manager at Hewden Stuart Crane Hire passed away at 75.

Kelsey retired in 2007 after 37 years with the company, he was a popular and widely respected engineer who spent most of his working life in the crane industry and regularly participated in the development and improvement of industry from a technical and safety point of view. He is survived by his wife Pauline.

Comments from others included:

I was saddened this weekend to hear of Norman passing away. I worked with Norman for many years and he was one of those people you just relied on to perform because he always did. I can recall many occasions when big cranes were booked for critical jobs and standing at the side of a motorway in the middle of the night in snow and rain. Very often when all looked lost Norman would be under the troubled crane and one way or another it would be on its way again.

I send my sincere condolences to Pauline and family.

Rest in peace old lad!

Ray Ledger

Norman was one of the Greats in our Industry. He could rightly hammer you for any fault but then kindly offer a solution. His knowledge was vast and a credit to Hewden and well respected and valued by them. Many improvements in cranes were down to his understanding of what wouldn't break. It was an honour to have worked alongside him as a supplier and friend.

Barry Barnes

Sad news, Norman was one of the good guys, always up to his elbows in oil, with or without overalls. Not many of his ilk left now, God bless you mate

Anon

Whats on?

2017

Hire17

May 10-11, 2017
Australian Hire & Rental association annual convention and show Rosehill Gardens, Sydney, Australia
Tel: +61 (0)2 9998 2255
www.hireandrental.com.au



Crane Rental Association of Canada Annual Conference

June 7-10, 2017
The annual Canadian crane conference
St Andrews, BC, Canada
+1780.790.2722
www.crac-canada.com



GIS 2017

October 5-7, 2017
The Italian Cranes & Access Show
Piacenza, Italy
Tel: +39 010 5704948
www.gisexpo.it



IPAF Summit 2018

March 8th, 2018
Annual summit and awards dinner.
Miami USA.
Tel: +44 (0)15395 66700
www.ipaf.org



2019

Bauma 2019

World's largest construction equipment exhibition, April Munich, Germany
Tel: +49 (0) 89 51070
www.bauma.de



Vertikal Days 2017

UK/Ireland crane and access event.
May 24-25 Silverstone
Tel: +44 (0) 8448 155900
www.vertikaldays.net



Matexpo 2017

September 6-10, 2017
Belgian construction equipment show
Kortrijk, Belgium
Tel: +32 (0)56 21 08 32
www.matexpo.com



CICA Conference 2017

October 19-21, 2017
Australian crane industry conference
Adelaide, Australia
+61 (0)3-9501 0078
www.cica.com.au



Bauma Conexpo Africa

March 13-16 2018,
The construction equipment show for Africa
Johannesburg, South Africa
Tel: +49 89 949 20251
www.bcafrica.com



2020

Conexpo 2020

March 10-14, 2020
The leading US construction show.
Las Vegas, Nevada, USA
Tel: +1 414-298-4133
www.conexpoconagg.com

TABS

May 31st, 2017, Unimog Museum, Gaggenau, Germany
German language work at height safety conference
Tel: +49 761 8978660
www.tagung-tabs.eu



Platformers Days 2017

September 2017
German access equipment show
Hohenroda, Germany
Tel: 05033 981742
www.platformers-days.de



2018

The Rental Show 2018

Atlanta
February 18-21 2018
New Orleans, USA
Tel: +1 800 334 2177
www.therentalshow.com



Intermat 2018

April 23-28 2018,
International construction equipment show
Paris France
+ 33 (0)1 76 77 15 77
www.paris-en.intermatconstruction.com



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351 Liebherr LTM 1030-2.1	2006	4x4x4	30,00m + 15,00m
451 Faun ATF 45-3	2006	6x6x6	34,00m + 15,20m
551 Grove GMK 3055	2004	6x6x6	43,00m + 15,00m
601 Faun ATF 60-3	2004	6x6x6	40,20m + 16,00m
601 Faun ATF 60-4	2000	8x6x8	40,00m + 16,00m
751 Grove GMK 4075-1	2005	8x6x8	43,20m + 17,00m + Runner
801 Terex-Demag AC 80-2	2004	8x8x8	50,00m + 17,60m
801 Terex-Demag AC 80-2	2003	8x6x6	50,00m + 17,60m + Runner
801 Liebherr LTM 1080V1	1999	8x8x8	48,00m + 19,00m
901 Liebherr LTM 1090V2	2002	8x8x8	52,00m + 19,00m
1001 Grove GMK 5100	2001	10x8x10	51,00m + 18,00m
1001 Liebherr LTM 1100V2	2001	10x8x8	52,00m + 19,00m
1601 Tadano Faun ATF 160G-5	2009	10x8x8	60,00m + 37,00m
1601 Tadano Faun ATF 160G-5	2005	10x8x8	60,00m + 13,20m
2001 Liebherr LTM 1200-5.1	2009	10x8x10	72,00m + 22,00m
2501 Liebherr LTM 1250V1	2004	12x8x10	72,00m + 42,00m + 63,00m
4001 Liebherr LTM 1400-7.1	2007	14x8x12	60,00m + 56,00m + 84,00m

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Turner Access	www.turner-access.co.uk
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Versalift distributors (UK)	www.versalift.co.uk
Youngman	www.youngmangroup.com

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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

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Brogan Group	www.brogangroup.com
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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
Cotac Oy	www.crane.fi
Cranes4Cranes	www.cranes4cranes.com
Cranes UK	www.cranesuk.net
Crowland Cranes	www.crowlandcranes.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

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

Crane Hire

AB2000	www.ab2000.co.uk
ABBA	www.abblanthire.co.uk
Ainscough	www.ainscough.co.uk
Berry Cranes	www.berrycranes.co.uk
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Cork Crane Hire (Liverpool)	www.corkcranehire.com
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City Lifting	www.citylifting.co.uk
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McNally crane hire	www.cranehire-ireland.com
NRC	www.nrcplant.co.uk
Port Services Heavy Crane division	www.portservices.co.uk

Mini Crane Hire

Easy Reach Scotland	www.easyreachscotland.co.uk
Emerson Cranes	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
Tracked Access	www.trackedaccess.com

Self Erecting Tower Cranes

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

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Heavy Lift Management

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

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Ancillary Equipment

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

Ritchie Brothers	www.rbauction.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
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Control Systems

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

Generator Sales & Rental

Electrogen Int	www.electrogen.ie
JMS Plant Hire	www.jms-planthire.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
Eco power pads	www.outriggerpads.co.uk
GTP Europe	www.gtp-europe.com
Marwood	www.marwoodgroup.co.uk
Mat & Timber Services	www.sarumhardwood.co.uk
Nolim	www.nolim.nl
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

UE Components	www.ue-components.com
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IAPS	www.iapsgroup.com
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TVH - Group Thermote & Vanhalst	www.tvh.be
UE Components	www.ue-components.com
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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
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Replacement Filters

Plant Filters	www.plantfilters.co.uk
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Safety Equipment

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Heaton Scaffold Towers	www.heatonproducts.co.uk
Load Systems UK Ltd	www.loadsystems.com
Marwood	www.marwoodgroup.co.uk
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Software

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inspHire	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
Astra Access	www.astratraining.co.uk
Boss Training	www.bosstraining.co.uk
IAPS	www.iapsgroup.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 Training -Ca	www.approvedsafetytraining.com
Elevation	www.elevation.net
GT Access	www.gtaccess.co.uk
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
UTN	www.utntraining.co.uk
Warren	www.warrenacesstraining.co.uk/courses/
Access Training Workplatform	www.workplatformltd.co.uk/customer-support/operator-training

Safety Training

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

Training Services

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HCS	www.hydrauliccraneservices.co.uk
Hewden Training	www.hewden.co.uk/training
Hi-Reach	www.hi-reach.co.uk
Hiab	www.hiab.com
Horizon Platforms	www.ipaftrainingcourses.co.uk
JLG Training	www.jlgeurope.com
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TH White	www.thwhite.co.uk
Terex Atlas (UK) Ltd.	www.atlascranes.co.uk

Wire Rope & Cable

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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
OTR Wheel Engineering - OTR Europe	www.otrwheel.com

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Atlas Traffic Management	www.atlatstm.co.uk
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Make	Working Height	Year
Bronto S34MDT	34m	2001-2003
Bronto S46XDT	46m	2005
Bronto S52XDT	52m	2006-2008
Ascendant A12.5VM	12.5m	2011-2013
Ascendant A15VM	15m	2010
Ascendant A17-12T	17m	2009
Ascendant A22-17TJ	22m	2006-2012
GSR E290PX	29m	2008
GSR 160P	16m	2003-2013

Self Propelled Booms

Make	Working Height	Year
Haulotte H21TX	21m	2006
Haulotte H23TPX	23m	2006
Haulotte H25TPX	25m	2006-2008
Nifty HR12NDE	12.2m	2007-2012
Nifty HR15NDE	15m	2007-2012
Nifty HR17D 4x4	17.2m	2007-2008
Nifty HR17NDE	17m	2011
Nifty HR21D 4x4	20.8m	2007-2008
Skyjack SJ46AJ	16.1m	2012
Haulotte Star 10	10m	2012-2013

Scissor Lifts

Make	Working Height	Year
Skyjack SJ12	5.6m	2012
Skyjack SJ16	6.7m	2012
Skyjack SJ3219	7.6m	2011
Skyjack SJ3226	9.7m	2011-2012
Skyjack SJ4632	11.6m	2011-2012
Snorkel TM12	5.8m	2012

Trailer Mounted & Narrow Access

Make	Working Height	Year
Nifty 170HDET	17m	2012
Denka DL22N	22m	2003-2007
Falck Schmidt FS290	29m	2007

Spares & Repairs

Make	Working Height	Year
Aichi TZ12	14m	2001
Denkalift DL22N	22m	2001-2007
Genie Z30/20N	11.1m	1996
Genie Z45/22	15.8m	1996
Grove Toucan 1010	10.1m	2000
Haulotte H25TPX	25m	2008
Haulotte HA16	16m	2006
Haulotte Compact 10DX	10m	2007
Haulotte Quick Up 14	14m	2003-2008
Nifty HR12NDE	12.2m	2005-2008
JLG 15VP	15m	2001
Nifty 120	12m	2007
Skyjack SJ4632	11.6m	2011
Skyjack SJ9250 4x4	17.1m	2008
Falck Schmidt TS24	29m	1994
Haulotte Star 10	10m	2011
Nifty V100	10.8m	2001
Mantis 20/22	22m	1996

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Diesel, 4x4 Drive,
15.0m Working Height,
2005 | PHM-Id 08698

€12,900



GENIE - GS5390RT

Scissor lifts

Diesel, 4x4 Drive,
18.0m Working Height,
2002 | PHM-Id 08850

€17,500



GENIE - GS5390RT

Scissor lifts

Diesel, 4x4x2 Drive,
18.0m Working Height,
2002 | PHM-Id 08849

€17,500



HAULOTTE - HA16PXNT

Articulating boom lifts

Diesel, 4x4x2 Drive,
16.0m Working Height,
2005 | PHM-Id 08159

€13,500



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Articulating boom lifts

Diesel, 4x4 Drive,
17.0m Working Height,
2006 | PHM-Id 08809

€15,900



GENIE - S125

Boom lifts

Diesel, 4x4x4 Drive,
40.0m Working Height,
2006 | PHM-Id 07722

€52,000



GENIE - S105

Boom lifts

Diesel, 4x4x4 Drive,
34.0m Working Height,
2008 | PHM-Id 07725

€47,500



TEREX - A350-1

Rough Terrain Cranes

30t, 4x4x4,
28.0m Boom
2008 | PHM-Id 08854

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TEREX - DEMAG - AC55L

Telescopic Cranes

55t, 6x6x6, Intarder
44.0m Boom,
Double Jib 8.0m-15.0m
2007 | PHM-Id 08888

€197,500



DEMAG - AC80/2

Telescopic Cranes

80t, 8x6x6, Intarder
50.0m Boom,
Double Jib 9.2m-17.6m
2007 | PHM-Id 08853

€279,000



FAUN - ATF70G-4

Telescopic Cranes

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V20946 - Haulotte Optimum 8 - 2007
Electric - 7,76 Mtr. - 853 Hrs.
€ 4.250



V19791 - JLG 2030ES - 2007
Electric - 8,1 Mtr. - 326 Hrs.
€ 4.950



V20429 - Iteco IT10090 - 2008
Electric - 12,02 Mtr. - 568 Hrs.
€ 5.500



V20405 - Iteco IT12151 - 2007
Electric - 13,9 Mtr. - 673 Hrs.
€ 8.950



V17828 - Liftlux SL 125-18E - 2000
Electric - 14,5 Mtr. - 631 Hrs.
€ 4.500



V21487 - Haulotte C10DX - 2005
Diesel 4x4 - 10,2 Mtr. - 2329 Hrs.
€ 7.950



V21106 - Haulotte H125X - 2007
Diesel 4x4 - 12 Mtr. - 1132 Hrs.
€ 11.950



V17600 - Mec 4191RT - 2008
Diesel 4x4 - 14,5 Mtr. - 304 Hrs.
€ 14.950



V20878 - Skyjack SJ8841 - 2009
Diesel 4x4 - 14,5 Mtr. - 1376 Hrs.
€ 13.950



V21788 - Haulotte H155X - 2007
Diesel 4x4 - 15 Mtr. - 2778 Hrs.
€ 11.950



V21922 - Niftylift HR10E - 2001
Electric - 10 Mtr. - / Hrs.
€ 5.950



V22259 - Iteco IT925 - 2008
Electric - 11,2 Mtr. - 468 Hrs.
€ 9.950



V22265 - Haulotte HA12IP - 2007
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€ 14.950



V22238 - Genie Z45-25JBI - 2006
Bi-Energy - 15,92 Mtr. - 990 Hrs.
€ 15.950



V20816 - JLG M600JP - 2005
Bi-Energy - 20,39 Mtr. - 2340 Hrs.
€ 21.500



V18923 - JLG 450AJ - 2004
Diesel 4x4 - 15,72 Mtr. - 4397 Hrs.
€ 13.500



V21890 - Haulotte HA16PXNT - 2005
Diesel 4x4 - 16 Mtr. - 2528 Hrs.
€ 13.500



V19157 - JLG 600AJ - 2011
Diesel 4x4 - 20,29 Mtr. - 2343 Hrs.
€ 39.500



V21900 - Haulotte HA20PX - 2005
Diesel 4x4 - 20,65 Mtr. - 4580 Hrs.
€ 15.950



V22138 - Haulotte HA32PX - 2004
Diesel 4x4 - 32 Mtr. - 5677 Hrs.
€ 39.500



V18421 - Genie S45 - 2004
Diesel 4x4 - 15,7 Mtr. - 4674 Hrs.
€ 10.950



V19637 - JLG 460SJ - 2007
Diesel 4x4 - 16,02 Mtr. - 3359 Hrs.
€ 18.750



V18726 - Haulotte H23TPX - 2005
Diesel 4x4 - 22,6 Mtr. - 5278 Hrs.
€ 14.950



V19924 - JLG 1200SJ - 2007
Diesel 4x4 - 38,58 Mtr. - 3626 Hrs.
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4WD

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DIESEL

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2005



12.52
METRE
650
HOURS
6
UNITS
AVAILABLE

BATTERY

Genie Z-34/22N €11500

2006



20.22
METRE
3000
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

Genie Z-60/34 €26950

2007



12.50
METRE
1500
HOURS
20+
UNITS
AVAILABLE
4WD

D
DIESEL

Skyjack SJ-7135 RT €11500

2006



11.58
METRE
400
HOURS
8
UNITS
AVAILABLE

BATTERY

Genie GS-3246 €8500

2007



17.07
METRE
2000
HOURS
12
UNITS
AVAILABLE
4WD

D
DIESEL

Skyjack SJ-9250 RT €16500

2014



14.00
METRE
400
HOURS
6
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

Hinowa 14.70 III S €26950

2010



13.00
METRE
2000
HOURS
2
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

CTE Tracess 135 €21000

2006



21.80
METRE
5000
HOURS
2
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

Omme 2200 RBD €27500

2005



25.60
METRE
3000
HOURS
1
UNIT
AVAILABLE
4WD

D
DIESEL

Genie Z-80/60 €42500

2007



27.70
METRE
4000
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

Genie S-85 €49950

2008



21.97
METRE
3500
HOURS
5
UNITS
AVAILABLE
4WD

D
DIESEL

JLG 660 SJ €34000

2008



26.21
METRE
4500
HOURS
10+
UNITS
AVAILABLE
4WD

D
DIESEL

JLG 800 AJ €49000

2008



28.00
METRE
4000
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

JLG 860 SJ €53000

2008



40.00
METRE
4500
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

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