

cranes & access



February/March 2024 Vol.26 issue 1

www.verikal.net

BOOM LIFTS

**ROUGH TERRAIN
CRANES**

**ALTERNATIVE
LIFTING**

BATTERIES

ARA REVIEW



HYDRAULIC OIL FREE



Working Height

World's First Oil-Free & All-Electric AWP Series

ZHEJIANG DINGLI MACHINERY CO.,LTD.

ADD:188 Qihang Road, Leidian Town, Deqing, Zhejiang, P.R.C

TEL:+86-572-8681688

Phone:+86-13806523131 Susan Huang

E-Mail:export@cndingli.com

Https://en.cndingli.com





17



29



37



47



53

CONTENTS

COMMENT 5

NEWS 6

Haulotte's new 46ft 'E' boom, Tadano to rationalise German facilities, Teupen launches 27m spider lift, Manitou's new scissor lifts, Genie updates TraX boom lift, New Terex 150t/m flat top, Boels acquires Riwal, Another new Potain luffer, Jekko's smallest JF, New ToughLift material lift range, New Skyjack micro scissors, 65ft telescopic boom from JCB, New Mecaplus self-levelling scissor, New Faymonville wind tower transporter, Dica levelling mat, UK crane movement embargoes and financials round-up...

BOOM LIFTS 17

Perhaps the biggest change to the self-propelled boom lift market in recent years is the rapid increase in the number of manufacturers with a growing volume of lifts built in China. We review the latest developments as well as looking into boom lift safety and accident statistics - particularly overturns and being thrown from the platform.

ROUGH TERRAIN CRANES 29

Historically, the fortunes of the Rough Terrain crane market are said to follow the average price of a barrel of oil which may account for many of the new RT cranes being launched onto the market over the past year or so. We take a look at the latest products.

HEAVY AND ALTERNATIVE LIFTING 37

UK based Durham Lifting offers a wide range of lifting and testing services. Editor Mark Darwin interviews managing director Amanda Gardiner about its history, recent developments and plans for the future. We also highlight a range of big lift projects from around the world.

BATTERIES AND ENERGY STORAGE SYSTEMS 47

A battery is a container that stores energy until it is needed. We take a look at the latest developments from the traditional batteries to the growing market for large solar/hydrogen powered hybrid and full electric power packs capable of powering large construction sites.

ARA SHOW REVIEW 53

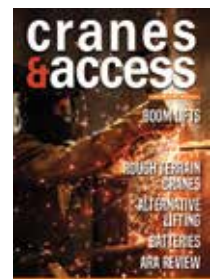
Publisher Leigh Sparrow attended last month's American Rental Association ARA Show in New Orleans. Here is his show review which includes a number of new products.

REGULARS

CPA FOCUS	61
IPAF FOCUS	63
ALLMI FOCUS	65
IN THE NEXT ISSUE	66
TRAINING	67
BOOKS & MODELS	69
LETTERS AND OBITUARIES	71
WHAT'S ON	75
ONLINE DIRECTORY	78

ON THE COVER

Work is progressing in the second reactor building at the UK's Hinkley Point C nuclear power station following the positioning of the 245 tonne, 47 metre diameter dome by Saren's 5,000 tonne capacity SGC-250 closing the roof of the first reactor.



IN THE NEXT ISSUE Scheduled for publication in May, the next issue of Cranes & Access will include features on Crawler cranes, Van and small truck mounted platforms, our annual equipment Source Guide, Transport trailers and a review of the Internat exhibition in Paris. If you have any contributions or suggestions to make or are interested in advertising in this issue, please contact our editorial or sales teams.



Promoting the safe and effective use of powered access

GET YOUR PAL CARD ON YOUR PHONE!

WITH IPAF'S NEW APP



ePAL

www.ipaf.org/ePAL

- Free to download
- For all PAL Card holders
- Digital wallet for IPAF licences & qualifications
- Digital logbook
- Show & share your credentials
- Convenient
- Best practice tips & advice

DOWNLOAD NOW

Scan here or search your app store for 'ePAL'





Editorial

Mark Darwin - Editor
Imogen Campion - Reporter
Leigh Sparrow

Associate editors

Rüdiger Kopf (Freiburg)
Alexander Ochs (Freiburg)

Feature editors

Nick Johnson
Saul Chernos

Sales & customer support

Clare Engelke
Pam Penny
Karlheinz Kopp

Production/Administration

Nicole Engesser

Editorial data specialist

Poppy Horne ph@vertikal.net

Subscriptions

Lee Sparrow

Publisher

Leigh Sparrow

Advertising sales

UK-based

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

Germany-based

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

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

Hofackerstr. 95
D-79110 Freiburg
Germany
Tel: +49 (0)761 897 8660
Fax: +49 (0)761 897 86614
E-mail: info@vertikal.net



COMMENT

POLICE STATE

Police forces across the developed world are going through a 'sticky patch' at the moment, as they struggle to balance the 'management of demonstrations' with free speech, while trying to deal with serious crime and growing levels of fraud, leaving crimes such as burglaries and robberies unsolved and often not even investigated. On top of this some face serious allegations of criminal misconduct and corruption.

The Police do, however, seem to have the resources to catch motorists exceeding the speed limit or infringing other driving rules. Perhaps the revenue generated is behind this priority? Whatever your opinion of the Police where you do business, we believe that they should know the law and how to apply it. However, feedback from readers in several countries over the past few months, suggests that this is not always the case.

Companies in markets across Europe are saying how hard it to move cranes freely on the roads as they go about their business. Companies in the UK are the latest to shout 'enough!' with many facing extreme difficulties with embargoes preventing travelling to and from site during the critical hours at the start and end of the working day, exasperated by arbitrary enforcement, compounded by a lack of knowledge and disinterest in learning more about the equipment involved. They often fail to differentiate between a 90 tonne All Terrain crane and a 4.5 metre wide, 250 tonne abnormal load. The UK National

Highways state that 'abnormal load' refers to any vehicle weighing more than 44 tonnes, or with an axle load of more than 10 tonnes (11.5 tonnes for a single driving axle) or overall width of over 2.9 metres.

In the English Midlands the situation has reached the point where crane companies have sent letters to Government ministers, Members of Parliament and Police commissioners. Such efforts can take months if not years to make any impact - if at all. Perhaps the issue needs a television drama?

Some areas have adopted a dispensation for mobile cranes in so far as the embargo and notifications apply only to cranes with five or more axles - so around 100 tonnes and above. Most modern cranes can also be configured with axle loads below 10 tonnes, although the UK permits up to 16.5 tonnes per axle.

What is needed is agreement of simple guidelines, such as removing cranes with an overall width of 2.5 metres or less from the abnormal load classification and for all police forces to enforce it consistently.

Crane rental companies already have to deal with enough paperwork and restrictions (movement, emissions, noise, road closures etc) just to carry out routine lift. And that is before they reach site!

Assuming such letters and petitions fall on deaf ears, perhaps it is time for crane rental companies to take a leaf out of the farmers protest play book?

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

HAULOTTE'S NEW 46FT 'E' BOOM

Haulotte has launched a 46ft all-electric articulated Rough Terrain boom lift, the HA16 E and the higher specification HA16 E Pro.

The new machines match or exceed the performance of the equivalent diesel powered models in terms of speeds and gradeability, thanks to direct wheel motor drive. Working height is 16 metres, while outreach is 7.9 metres at an up & over height of 7.88 metres, with the maximum/unrestricted platform capacity of 300kg. Overall width is 2.3 metres and total weight 7,120kg. The new boom is also available with Haulotte's Range Extender standalone generator pack, converting it to a hybrid machine. See *Boom lifts* page 17 for more details.



TADANO TO 'RATIONALISE' GERMAN PLANTS

Crane manufacturer Tadano is to close its plant in Wallerscheid, one of two facilities it operates in the Zweibrücken area, the other being Dinglerstraße. In total around 400 jobs are to go between now and mid 2025.

To put that in perspective the company has almost 1,300 employees in the region. The Wallerschied activity will be transferred to the Dinglerstraße facility, as well as the company's plant in Lauf, Bavaria, where it plans to invest in new production lines and recruit more staff.

Wallerscheid has 28,533 square metres under cover on a 45 acre site and was built by Demag as an assembly plant. Dinglerstraße has 44,000 square metres under cover on a slightly smaller site. The company has blamed the further restructuring on declining market shares, increasing competitive pressures and ongoing supply chain problems.



TEUPEN'S NEW 27M SPIDER LIFT

German manufacturer Teupen has launched the new 27 metre Leo 27GTplus spider lift. The new model replaces a prototype shown at Bauma 2022, which never made it to market. It features the classic dual telescopic boom format, with a three section riser/lower boom, topped by a three section upper boom and an all-new jib design with 160 degrees of articulation. All cables and hoses are routed internally within the boom.

The new model includes all existing Teupen outrigger set up configurations, plus the additional Narrow front/Wide rear allowing it to be positioned between rows of seats/pews when working in university lecture halls or churches etc.

Other features include standard radio remote controls, an improved full colour display screen and new 'Fuzzy V' controls, as well as wider and longer rubber tracks and 180 degrees platform rotation.



The new lift has a wide selection of set up positions and a high degree of levelling



MANITOU'S NEW SCISSOR LIFTS

Manitou will launch its new slab electric scissor lift range this spring. The concept machines were first seen on the company's stand at Exon 2023 in Bangalore/Bengaluru, India last December, but at that stage no details were available.



The initial line of 'SE' slab electric scissors - designed and built at the company's plant in India - will include three models, a 19ft compact, 26ft narrow and wider 32ft with working heights of 7.8, 10.0 and 11.8 metres. Platform capacities are 230kg on the narrow machines and 350kg on the wider model while all units use low maintenance, AC electric wheel motor drive and will include integrated diagnostics with a colour display screen, standard 900mm roll out deck extension and full height swing gate entrance.

The 19ft SE0808 has an overall width of 815mm, as does the 26ft SE1008, while the 32ft SE1212 is 1.17 metre wide. Overall lengths are 1.85, 2.42 and 2.43 metres respectively, while overall weights are 1,500kg, 2,200kg and 2,880kg.

The new 19ft SE 0808



WOLFFKRAN MIDDLE EAST MANUFACTURING JV

German tower crane manufacturer Wolffkran has announced plans for a joint venture tower crane manufacturing facility in the Middle East in partnership with the Zamil Group.

The initiative is to meet growing demand for Wolff tower cranes in the Middle East and North Africa. The company currently has two production facilities - Heilbronn and Luckau - both in Germany. Saudi Arabia based Zamil was established in 1920 and now claims to be one of the largest private sector companies in the Middle East.

BOELS ACQUIRES RIWAL

Dutch international general rental company Boels Rental has acquired Dutch international aerial lift and telehandler rental specialist Riwal from owner Pro-Delta.

The deal was announced on March 11th, but completion remains subject to certain conditions and in particular, approval from the relevant competition authorities. The Riwal/Manlift addition adds around €310 million in revenues to Boel's €1.5 billion, along with 65 branches and close to 1,200 employees. This also takes Boels' network to 830 locations across 27 countries.

The move takes the company into new markets and according to Boels expands the combined aerial lift and telehandler fleet to 55,000 units.

A statement from Boels said: "In European regions where presence overlaps, Boels and Riwal will leverage combined experience and resources. But the prospective acquisition also opens doors to new markets, like Spain and France. While Boels has a dense European network, Riwal has a more global footprint with branches as distant as India and Qatar. After integration Boels will be positioned for significant growth and profitability due to the increased geographical footprint and other factors."

See Vertikal.net for more details



Piere Boels (L) with Doron Livnat of Riwal owner Pro-delta

NEW TEREX FLAT TOP

Terex Tower Cranes has launched a new six tonne flat top tower crane, the 150 tonne/metre CTT 152-6. The crane offers jib lengths from 25 to 60 metres with a choice of tower and chassis configurations, offering free standing tower heights of up to 61.2 metres. Jib tip capacity on the 60 metre jib is 1.91 tonnes. The maximum capacity of six tonnes can be handled at up to 20 metres radius on a 60 metre jib. The new crane also introduces two new winch options - 18 or 22kW - providing speeds of up to 104 metres a minute.

The crane also incorporates Terex features such as Power Plus and T-Torque slewing with custom settings for precision and smooth movements, while the Terex Power Match (TPM) system is said to reduce power consumption, making it more environmentally friendly. Optional features include the company's T-Link Telematics Platform and the two person T-Lift Crane elevator with speeds up to 40 metres a minute.

Part of the company's City Class, the CTT 152-6 incorporates several design improvements, such as a pinned connections between the jib and slewing unit, along with the elimination of a counter jib ballast basket, allowing the entire jib assembly to be rigged at ground level along with the hoist and trolley ropes. Each jib section includes a pre-assembled and independent safety line.

Maintenance is eased with grated walkways, platforms and safety rails in the jib and counter jib along with a wide electrical cabinet with dedicated platform on the slewing unit. The entire upper part of the crane can be transported in three truckloads of four HC 40ft containers.



GENIE UPDATES TRAX

Genie has launched the next generation of its TraX four track system for boom lifts.

The system has been redesigned to simplify maintenance, while preserving all the current performance features. It is available as a factory installed option on four boom lifts - the regular 62ft Z-62/40, and 80ft S-80 J telescopic along with two 'Xtra Capacity' telescopics, the 45ft S-45 XC, and 65ft S-65 XC.

The four independent tracks avoid the break over issue of normal full length tracks on uneven ground, while maintaining the oscillating axles of wheeled machines, adding the ability to swivel up and down by 22 degrees, helping the tracks tackle obstacles on the most extreme terrain. See more in the Boom lift feature - page 17.



ANOTHER NEW POTAIN

The Potain has launched the 32 tonne MCR 625 heavy duty luffing jib tower crane. Built at the company's factory in Zhangjiagang, China the crane is aimed at markets in Asia, the Middle East, South and Central America as well as being offered in Australia, New Zealand and Africa.

The new crane - which includes features from the popular MR 618 - can handle its 32 tonne maximum capacity at a radius of up to 22 metres with a 40 metre jib, or 17.5 tonnes on a single line at a radius of 37 metres with a 50 metre jib. The maximum jib length is 65 metres with a jib tip capacity of 6.4 tonnes at 65 metres radius.

Mounted on 2.45 x 2.45 metre tower sections, the Potain MCR 625 can be configured with jib lengths from 30 metres up to the 65 metre maximum in five metre increments. The 60 tonnes (10 x 6.0 tonnes) of superstructure counterweight is adjustable for optimum load distribution and capacity with a maximum tailswing of 10 metres. Three hoist options can all have up to 603 metres of wire rope.



A SMALLER JEKKO JF

Jekko has started production of its smallest JF articulated spider crane - the 6.15 tonne JF235. The new addition - a development of the existing 15.5 tonne JF545 - takes the JF range to four models, from the new JF235 up to the 21 tonne JF990.

The new crane is rated at 2.6 metres and employs a five section boom for a maximum tip height of just over 15 metres, at which point it can handle 5.4 tonnes. The maximum radius with the boom horizontal is 12.7 metres with a capacity of 1,280kg.

A five section hydraulic luffing jib can be installed to take the maximum tip height to 25 metres with a capacity of 485kg, or a maximum radius of 22.7 metres with the boom and jib horizontal, at which point it has a capacity of 235kg. The jib can also be raised 10 degrees above the horizontal. A work platform attachment offers a 27.3 metre working height or outreach of 22.4 metres with 120kg, or 20 metres with the maximum platform capacity of 200kg.

The unit is relatively compact at 4.74 metres long by 1.6 metres wide with 406mm track pads, and stowed height of 2.6 metres. The overall weight is 9,470kg with the jib adding 770kg. The two stage beam and jack outriggers have a maximum footprint of 5.63 metres by 5.65 metres, with the outriggers set at 45 degrees. They can be set fully in, halfway or parallel with the chassis for a longer but narrower footprint.

New features include fully independent outriggers controlled from the remote with automatic levelling and load chart calculation. Power is Bi-energy with a Stage V diesel with an AC plug-in motor when needed. The crane can be used with a wide range of accessories including a 1.5 tonne winch, mechanical extensions, lattice jibs, a range of man baskets and manipulators, while hydraulic accessories include rotors, clamps, and chain saws.

NEW RANGE OF MATERIAL LIFTS

A brand new, four model range of mast type material lifts has been launched under the ToughLift brand. The four models include the 10ft/3.5 metre ML-10, the 15ft/5.0 metre ML-15, the 20ft/6.5 metre ML-20, and the 25ft/8.0 metre ML-25. All four units have an overall stowed width of 810mm and an overall length of 760mm although the ML-25 is marginally longer at 810mm. When the front legs are deployed for work, the overall length increases to 1.51 and 2.06 metres respectively.

The new machines include a fully anodised and abrasion resistant mast, while all the steel fabrications are e-coated and powder coated for maximum corrosion resistance. Load handling attachments include a Pipe Cradle, a Load Platform to fill the gap between the standard forks for smaller items, fork extensions that add an extra 161mm, 399mm, or 631mm to the length of the standard forks, a boom attachment converting the lift to a small crane, and a Rough Terrain Wheel Kit.

Manufactured in Shenzhen, China by Shenzhen Anhua, the two smaller lifts are already available from exclusive UK and Ireland distributor Access Platform Sales with the two larger models arriving later this spring.



GREEN EFFICIENT INNOVATIVE

2024
**INTER
MAT.**

BOOTH NO.
EXT.5-J001
24-27 APRIL 2024



LINGONG HEAVY MACHINERY CO., LTD.

Address: No. 2676, Kejia Road, Jinan, Shandong, China
Email: sales@lmgm.com.cn Tel: +86 531 6787 9283

LGMG Europe B.V.

Address: Donker Duyvisweg 301, 3316 BL Dordrecht, The Netherlands
Email: sales@lmgmeurope.com Tel: +31 850 642 777

www.lmgglifts.com



RELIABILITY IN ACTION

MECAPLUS SELF-LEVELLING SCISSOR

Spanish self-levelling platform manufacturer Mecaplus has delivered its first 34ft T12SL dynamic 4x4 self-levelling scissor lift, with a working height of 12.3 metres and a capacity of 400kg on the 2.39 by 1.6 metre platform.

A 1.3 metre roll out deck extends the platform length to 3.75 metres. The T12SL can be levelled by up to 12.3 degrees end-to-end with a ground differential of 454mm and by up to 20 degrees side-to-side for a 637mm differential - without the need for levelling jacks. Each of the rear wheels is mounted on a long, vertically telescoping box section which is hydraulically extended or retracted. This combines with an oscillating front axle with long throw levelling cylinders. The lift automatically levels itself as it drives, even at full height.

The overall stowed length is 2.75 metres including entrance steps, which can be removed. The overall width is 1.75 metres with a stowed height of 2.7 metres - 1.9 metres with guardrails folded. The overall weight is 3,900kg. The first unit is currently on test with rental company Alquilaplát in Chapineria near Madrid.



DICA LEVELLING MAT

US outrigger mat and ground protection specialist Dica has launched LevelRight, a solution for levelling up equipment with outriggers.

The LevelRight pad can change the overall angle from zero to 10 degrees and adjust two planes by up to five degrees. Measuring 610mm in diameter it will accept up to a 508mm square or 610mm outrigger float/foot with a capacity of 159 tonnes. It is constructed from 'safety tech' material with Dica's 'safety texturing' on both top and bottom surfaces. It also incorporates an integrated bubble level, to verify a level surface for the equipment's outriggers.



NEW WIND TOWER TRANSPORTER

Specialist trailer manufacturer Faymonville has launched a new set of trailer adapters with standard rotator for transporting wind turbine tower sections.

Comprising four and seven axle dolly trailers, the product fills a gap in the Faymonville range and is designed for moving tower sections up to 100 tonnes in weight, particularly on winding, challenging routes. The trailer is based on a four axle front dolly with air suspension, the seven axle self-steering rear dolly is equipped with hydraulic suspension, enabling one side or the other to be raised or lowered, to aid overall stability.



SKYJACK'S NEW MICROS

Skyjack has unveiled two new Canadian designed and built micro scissor lifts, the 13ft SJ3213 micro and 19ft SJ3219 micro - with working heights of 5.9 and 7.7 metres respectively. Both have an overall width of 810mm and overall length of 1.5 metres. Platform capacity on both is 227kg and a 500mm roll-out deck extension is standard equipment. The 13ft weighs 869kg while the 19ft is 1,214kg.

The SJ3213 micro replaces the Mantal-built SJ3013 in North America while the 14ft SJ3014 will remain available in Europe for the immediate future. Unlike the badged machines which had electric rear wheel drive, the new models feature AC electric front wheel drive motors and a variable speed brushless hydraulic pump drive motor. The new models have an overall height of 1.9 and 1.99 metres respectively with guardrails raised.

Options include ECOtray leak containment, full telematics and bio-degradable hydraulic oil - which can also be added at the first oil change. The new models are said to be 90 percent recyclable.



TADANO'S 70T HYBRID ON THE ROAD

A pre-production prototype of Tadano's 70 tonne AC 4.070-1 Hybrid All Terrain crane has been working in the Netherlands as part of a field test and evaluation programme with rental companies such as Saan and Kraanverhuur T. Pater.

While details are limited, the superstructure functions are powered by a large electric motor with a 70kW battery system, which can be topped up or operated while plugged in. A variable input prevents the crane from 'hogging' the site power supply. The crane is also equipped with an onboard generator that runs off the chassis engine which can top up or fully recharge the batteries. The crane's performance is said to be the same as the regular diesel model, with the batteries good for four to five hours of typical work.



Tadano AC 4.070-1 Hybrid

BIG ZOOMS ARRIVE IN N. AMERICA

The first two Zoomlion 215ft ZT68J/ZT215J telescopic boom lifts have landed in North America, the first unit going to Groupe ELG in Quebec, Canada and the second to Mateco subsidiary Segamac, in Mexico. Both companies are Zoomlion aerial lift distributors. The ZT68J was unveiled at Bauma China at the end of 2020, with most, if not all, delivered staying in China - until now.

The ZT68J features a five section boom plus two section articulating jib with 31 metres of outreach with the unrestricted 300kg platform capacity, while the maximum capacity of 454kg is available at just over 25 metres. Total weight is 36 tonnes.

The Mexican ZT68J on a visit to Louisiana for the ARA Show



674 TONNE JACKED GANTRY

US heavy lift and engineering specialist Engineered Rigging has taken delivery of the first 674 tonne Enerpac SBL600 Super Boom Lift hydraulic gantry system.

Unveiled in late 2022, the SBL600 features four stage rectangular booms/masts giving a 10.6 metre lifting height with a first lift stage capacity of 674 tonnes, 562 tonnes on the second and 416 tonnes at the third stage. The jacking units have a folded transport height of 2.25 metres, while each leg weighs nine tonnes allowing two gantry legs to be transported on a flatbed trailer.



Enerpac's SBL600 Super Boom Lift

UK CRANE MOVEMENT EMBARGOES

Abnormal Load EMBARGO

Crane rental companies in some parts of England are experiencing extreme difficulties with road embargoes, blocking cranes from travelling to site between certain hours of the day, with the risk they might be impounded.

Companies in the Midlands have sent letters to UK Government ministers, Members of Parliament and the Police protesting the issue. The challenges relate to poorly written rules and the attitude of some local Police forces to them.

The UK Road Haulage Association and Heavy Transport Association have been fighting cases of irrational and inconsistent application of the rules by some forces since last year and have called on chief constables to confirm if their forces are following College of Policing guidelines.

See Letters - page 71

DESIGNED FOR RENTAL

Skyjack's electrically powered DC scissor lifts offer a quiet, compact and versatile package with zero emissions.

- ✓ SKYCODED™
- ✓ Single Action E-Lowering
- ✓ Simplified Pothole Protection
- ✓ Tough Shrouded Control Box
- ✓ 0.91 m Extension Deck
- ✓ 25% Gradeability

IMMEDIATE DELIVERY



www.skyjack.com

SKYJACK
simply reliable

FINANCIALS ROUND-UP

Another record year for Palfinger

Palfinger's revenues for the 12 months to the end of December were €2.44 billion, almost 10 percent up on 2022. Pre-tax profits improved 30 percent to €173.4 million, while net debt at the end of the year was €668 million, nine percent higher than at the start of the year. Fourth quarter revenues were €640 million, while pre-tax profits jumped 44 percent to €32.8 million.



Profit drop for Ashtead

Ashtead - owner of Sunbelt Rentals in the USA, Canada and the UK - has published its results for the nine months to the end of January, with revenues increasing 14 percent to \$8.23 billion, while pre-tax profits were flat at €1.69 billion, this due to higher costs and a substantial jump in interest costs from \$259 to \$402 million.



Record year for Haulotte

Haulotte achieved record revenues of €767 million in 2023, up 26 percent on the year, driven largely by sales of new equipment, particularly during the first half as well as higher volumes and prices. Fourth quarter revenues improved 13 percent to €199 million. The company "expects stable sales levels" for 2024.

Genie on the up

Terex group has reported full year revenues to the end of 2023 up 16.5 percent to \$5.15 billion, with a pre-tax profit of \$579.7 million, an increase of 58 percent on 2022.

Genie's revenues for the 12 months improved almost 18 percent to \$2.92 billion, while operating profit almost doubled to \$371.3 million. In the fourth quarter Genie's revenues slipped almost two percent to \$659.9 million. Operating profit however improved 13 percent to \$61 million thanks to price increases coming through.

A better year for Manitowoc

Manitowoc crane, which also includes Grove, Potain and National crane, along with a growing sales, service and rental operation, saw full year revenues for 2023 rise almost 10 percent to \$2.23 billion. Pre-tax profits were transformed from a loss of \$120 million last year to a profit of \$39.2 million in 2023. Fourth quarter revenues slipped just over four percent to \$595.8 million, with a pre-tax loss of \$1.9 million. The full year order intake was roughly the same as last year at \$2.08 billion.



Strong year for JLG

Oshkosh's access division - largely made up of JLG and Hinowa - saw full year revenues for 2023 rise more than 25 percent to \$4.99 billion. Operating profit for the division more than doubled to \$738.8 million. The order book at the end of December was four percent higher at \$4.53 billion. The company is forecasting revenues of \$5.2 billion for 2024 with a margin of 15 percent - roughly the same as this year. Oshkosh recently invested in UK based, Eaton Technologies and its AI powered Battery Management Software.

Record year for United

US based United rentals posted record results for 2023, with revenues increasing more than 23 percent to \$14.33 billion, of which rentals were \$12.06 billion, a rise of just over 19 percent, while sales of new equipment jumped 63 percent to \$1.57 billion. Pre-tax profit for the year was \$3.21 billion, just under 14 percent up on last year reflecting the shift in revenues.

Capital expenditure for the full year was just over \$3.5 billion, while sales from the rental fleet totalled \$1.57 billion leaving a net capital expenditure of \$1.934 billion.



Major boost for Manitou

Manitou's total revenue for 2023 was €2.87 billion, an increase of 22 percent on 2022, at the same time pre-tax profits more than doubled to €210.2 million. The results show strong growth in all areas that the company operates in terms of new machine sales and spare parts and services as well as all four regions.

Solid year for Morris Leslie

UK sales and rental company Morris Leslie saw revenues for the 12 months to the end of April, increase almost 11 percent to £49.12 million, while pre-tax profits grew by just over nine percent to £11.5 million. Capital expenditure during the year was £75 million including the acquisition of Harborough Hire Centre in March 2023.



Record result for Hiab & Kalmar

Cargotec - owner of Hiab and Kalmar - reported record sales for 2023. Hiab's revenues grew 13 percent to €1.79 billion, with an operating profit of €252 million up 16 percent. Kalmar's revenues were €2.05 billion, a five percent improvement while profits jumped 86 percent to €264.2 million.

Transformational year for Alimak

Hoist, mastclimber, suspended platform and façade access group Alimak saw total revenues for the year to the end of December come in at SK7.01 billion (\$671.5 million) a rise of 57 percent, thanks to acquisitions - in particular the Tractel deal which completed at the end of 2022. Pre-tax profit was SK681 million (\$64.1 million), a 41 percent improvement on 2022.

Acquisitions:

French vehicle mounted aerial lift manufacturer **Klubb** has acquired its German distributor **Hematec**.

US based **United Rentals** is to acquire **Yak Access** from Platinum Equity for around \$1.1 billion in cash.



US based **Herc Rentals** has acquired Wisconsin's **Aerial Work Platforms - AWP** from Borgman Capital, as well as **Quality Equipment Rentals** of Inglewood, California, from Dennis and Diann Wells.



Italian rental company **Mollo Noleggio** has acquired aerial lift and general rental company **Tecnostrutture**



German access rental company **Hundrup** has acquired **Schürck Baumaschinen**



MAGNI WINS PATENT SUIT AGAINST MANITOU

Bologna's Court of First Instance has ruled that Manitou Italia infringed one of Magni Telescopic Handlers' patents on its Manitou MRT-X 2470 and MRT-X 3050 Privilege and Privilege plus models, which were launched in 2017.

The patent relates to the design of its retraction control sequence on its single stage box beam outriggers which use the entire chassis width yet enabling the outrigger feet to automatically stow vertically. Manitou's counterclaim to have the patent declared invalid, was dismissed and the court ruled in favour of Magni and fixed the penalty at €70,000 for each breach or noncompliance. Manitou will appeal the case to a higher court.



Magni and Manitou telehandlers

FIRST JCB TELESCOPIC BOOM

JCB has launched its first telescopic boom lift - the 65ft T65D diesel - with a working height of 21.9 metres, an outreach of 17.23 metres with 300kg and a maximum platform capacity of 454kg.

See Boom lifts page 17



TUNNEL LIFT FROM SAFI

Italian aerial lift and mastclimber manufacturer Safi has launched a 3.5 tonne truck mounted scissor lift for tunnel maintenance work.

The lift has an eight metre working height with a 400kg capacity on the 3.2 metre by 2.2 metre platform which is equipped with a traversing deck, providing up to 500mm of lateral extension on either side of the chassis. The unit can be used with or without the inboard levelling jacks and is powered by battery and/or chassis PTO drive.



1,600T MULTISEC BEAM

Lifting beam and rigging gear manufacturer Multisecc has launched a new 1,600 tonne monopile spreader beam. The distinctive bright pink beam offers lifting centres at 32 metres with a load capacity of 1,600 tonnes. The beam comprises two, two metre end units with drop links and a combination of three eight metre and one four metre strut, with a total weight of 31,463kg.



Step into the future

SPX328

Compact, powerful, and intuitive.

The mini crane that represents technological innovation designed for operators at any level. It provides a new experience of work that is intuitive, simple, and powerful, accessible to everyone. Designed for the future, #MadeForLiftingHeroes.

MAX LOAD
2800 kg

MAX HEIGHT
12,8 m

MAX RADIUS
10,4 m

POWER
Batteries



info@jekko.it
www.jekko-cranes.com



Comprehensive Upgrade 12 Benefits



PERFORMANCE+

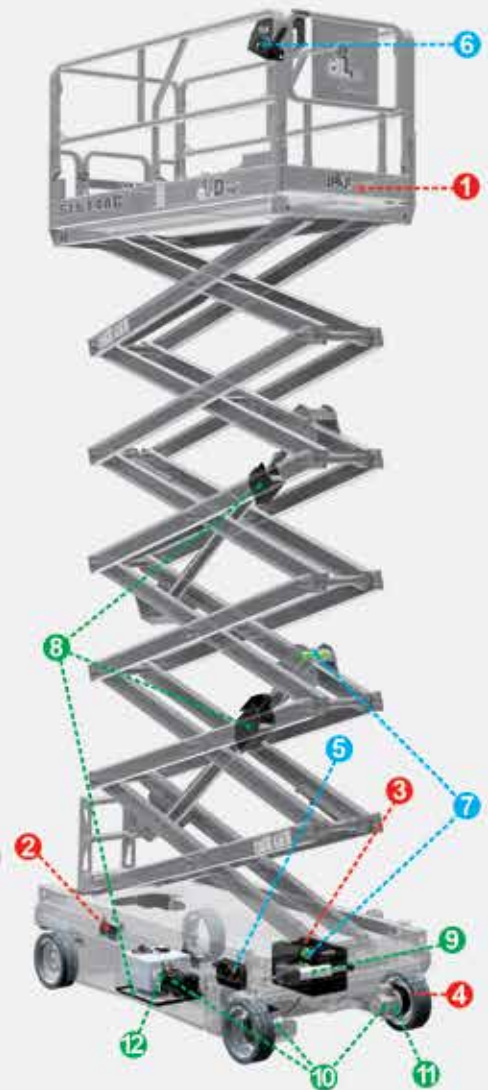
- 1 **Industry Leading Platform Capacity**
Significantly improved compared to the original model
- 2 **Side and Rear Forklift Pockets**
Multiple choices for transport efficiency
- 3 **Lithium-Ion Battery with Long Duty Cycle and Fast Recharging**
High-density battery pack with five-year warranty
- 4 **High Strength Damage Resistant Tyres Compound**
Double the life compared to conventional tyres

RELIABILITY+

- 5 **Integrated Four-in-One Motor Controller**
Significant reduction in connections and harnesses
- 6 **New Platform Control Box**
The durability of the touch pad is greatly improved, the new surface cleans easily, and the display is larger
- 7 **Reliable Load Sensing System**
Less affected by temperature and friction, scissor angle sensor reliability improvement

ENVIRONMENT+

- 8 **Hydraulic Oil Leak Containment**
For applications with zero leak tolerance
- 9 **Electric Actuator Steering System**
No hydraulic oil, faster steering speed and large reduction in energy consumption
- 10 **Gravity Down Energy Recovery System**
Battery charge regeneration during platform descent
- 11 **Highest Efficiency Electric Drive System**
Large decrease in energy consumption and higher power density
- 12 **Highest Efficiency Electric Lift Pump System**
Large decrease in energy consumption and higher power density



AC+

	250kg	408kg	250kg	450kg	350kg	350kg	350kg	350kg
Working Height	8m	8m	10m	10m	12m	14m	16m	16m
Overall Width	0.7m	0.8m	0.8m	1.2m	1.2m	1.2m	1.2m	1.4m

AC+ Series Scissor Aerial Work Platform

ZHEJIANG DINGLI MACHINERY CO.,LTD.
 ADD:188 Qihang Road, Leidian Town, Deqing, Zhejiang, P.R.C
 TEL:+86-572-8681688
 Phone:+86-13806523131 Susan Huang
 E-Mail:export@cndingli.com
 Https://en.cndingli.com



NEWS HIGHLIGHTS

- Austria's **Felbermayr** has promoted **Bernhard Strasser** to technical MD of **Felbermayr Bau**
- Scottish rental company **Morris Leslie** has ordered £68 million of JCB equipment
- **Reachmaster** has launched the **Almac Bibi 1090 Primo** self-levelling tracked scissor lift the USA
- The first **Sinoboom AB10ERJN** boom and **VM04E Mast** in the UK/Ireland have been delivered by **Lolex**
- Germany's **Agravis Ost** has taken a 19m **CMC S19N** spider lift for solar panel work
- Germany's **Scholpp** has taken its second 80t **Tadano AC 4.080-1**
- **Haulotte** has appointed **Rent/RTS** as a new dealer for Thailand
- UK based **Ardent Hire** has purchased 125 new **JCB** telehandlers
- Italian tower crane manufacturer **Raimondi** has appointed **Luigi Maggioni** as CEO
- Ireland's **O'Carroll Haulage and Crane Hire** has taken the country's first **Liccon3 Liebherr**,
- **Sinoboom** has appointed **Richard Butler** as CEO Europe
- **Mark Evans** has been appointed as MD of **Armorom**, trading as **Liebhertowercranes.ie**
- Germany's **Witrock and Ulferts** has purchased 50 **Liebherr** cranes
- Italian company **NMG Italia** has formed a partnership with **Manitex Valla**
- **TVH** has appointed **Carnelius Cruz** as VP sales for the Americas
- The owners of UK based **Pulse Hire** and **Peak Platforms** have acquired **Ultimate Access Hire**
- Scotland's **Forsyth of Denny** has taken two new **Liebherr** ATs, a 60t **LTM1060-3.1** and a 90t **LTM1090-4.2**
- UK's **HSS Hire** has ordered 130 **Sinoboom** slab electric scissors along with a few mast booms
- **Ashtead**, owner of **Sunbelt Rentals** in the USA, UK and Canada has appointed **Roy Twite** as a non-executive director
- Italian spider lift manufacturer **Palazzani** has appointed **CPL** as its UK distributor
- US based **Engineered Rigging** has promoted **Mike Beres** to vice president
- Germany's **Weiland Kran & Transport** has taken a new **Tadano AC 5.160-1** with special counterweight
- France's **Mediaco** has taken six **Liebherr MK88-4.1** mobile self erecting tower cranes
- Brazil's **Porto Chibatão** has taken the first four **Liebherr LBS 800** barge-slewing cranes
- **MyCrane** has appointed **Olga Dubinok** as director of business development for the USA
- France's **Gaussin** group has appointed **Steve Filipov** as deputy chief executive
- **Asko Holding** has appointed **Eric Liner** as CEO of **Custom Equipment/Hy-Brid Lifts**
- Germany's **Schmid Lifting** has taken an 18m **CMC S18F** spider lift.
- German manufacturer **Paus** is working with Australia's **Elquip** for its mining products
- UK's **McGovern Crane Hire** has taken a **Liebherr MK 140-5.1**
- Germany's **Hobrack** has taken a 30m **Easy Lift RA31** tracked spider lift
- Italy's **Axolift** has appointed **Multi AWP** as its distributor for Poland
- **Tata Projects** has taken five **Potain MCT 565A** flat top tower cranes for the New Delhi airport
- Sweden's **Kranpunkten** is opening a new branch in Luleå



Bernhard Strasser



Richard Butler



Carnelius Cruz



Roy Twite



Eric Liner

- **Sunbelt Rentals UK** has promoted **COO Phil Parker** to CEO replacing **Andy Wright** in May
- **TransWorld Manufacturing**, the US lift equipment/boom trailer manufacturer, is open sourcing its designs
- **Jekko** has appointed **Bagant Ecuatoriana** as its distributor for Ecuador
- Germany's **Mateco** has taken a 43m **Falcon 430** Vario spider lift
- US based **Nimble Crane** has installed an autism awareness wrap on a 150t **Grove**
- US based **Select Crane Sales** has ordered several 31.75t **Tadano GTC 350** telescopic crawler cranes
- Kuwait's **ILC** has taken 31 **Grove All Terrains**
- Ireland's **Crane Hire Ltd** has taken a 120t **Liebherr LTM 1120-4.1**
- **Hamblys** has been appointed **Bobcat** dealer for Cornwall and Devon
- The German town of Merzig has taken a 29m **Ruthmann TB290** truck mounted platform
- France's **AAYM** has taken a 150t **Grove GMK5150XL**
- **Alastair Evans** of **Hiab** has been appointed chairman of ALLMI
- Germany's **Küfner Arbeitsbühnen** has taken a 135ft **Genie SX-135XC** boom lift
- **CMC** has completed the acquisition of its US distributor **All Access Equipment**
- **LiftRoller** has appointed **Byko** as its distributor in Iceland
- **Axolift** has appointed Lithuania's **Jomasta** to distribute its products in the Baltic states and Denmark
- Canada's **Sterling Crane** has taken the country's first 450t **Tadano AC 7.450-1**
- Finland's **Kesla** has appointed **Pasi Nieminen** as CEO
- Australian contractor **Aland** has taken two 10t **Raimondi LRH174** hydraulic luffers
- Germany's **Kreutzberger** has taken a 28m **Cela DT28** truck mounted lift
- US based **W.O. Grubb** has taken a 400t **Grove GMK6400-1**
- **Wolffkran** has released 'Wolff Assist', a 'smart glasses' device for remote technical support
- Software supplier **MCS** has launched 'Resource Mobile'
- Former CEO of **Raimondi**, **Domenico Ciano** has died
- China's **Goman** has launched two new self-levelling tracked scissor lifts
- Italy's **Nolo Servizi 2000** has taken a 45m **Multitel MJ450** truck mounted platform
- Almac export sales manager **Jonathan Vioni** has left the company
- **inspHire** has incorporated 'What3words' into its rental software platform
- **Genie** has appointed **Thibaut Itzel** as sales director Southern Europe and **Markus Bandura** in Germany as **Christophe Rousseau** departs
- **LGH** has appointed **Russell Boswell-Munday** as European sales director
- UK's **Lawsons** has taken delivery of 13 **JCB Teletruk** telehandlers
- **Pop Up Products** has launched a new alloy access tower in the UK
- **Jekko** has switched its UK distribution from **JT Cranes to Foster Cranes**
- **Sinoboom Europe** general manager **José Miguel Peña** has left the company
- Dutch company **Wagenborg Nedlift** has purchased the first **XCMG** hybrid crane
- **Hoeflon** has left its UK dealer **Foster Cranes**
- **Mammoet** has appointed **Jonas Bartzschke** as manager in Leuna, Germany



Phil Parker



Andy Wright



Alastair Evans



Pasi Nieminen



Jonathan Vioni



Russell Boswell-Munday



Thibaut Itzel



Jonas Bartzschke

- **Manitou** has appointed **Céline Brard** as CFO and **Hervé Rochet** as chief transformation & governance officer
- UK's **DM Cranes** has taken a **Liebherr MK 140**
- **Richard Barnhart**, founder of **Barnhart Crane and Rigging Co** has died
- Ireland's **Dromad Hire** has taken two 20m **Hinowa LL20.10** spider lifts
- Germany's **BS Mietservice** has taken 40 **JCB** scissor lifts
- **Travis Perkins** has appointed **Adam Caulfield** as MD of its UK rental business
- **Bob Bradshaw** - former **Genie** regional VP - has died
- UK's **Mac's Truck Sales** has launched a new truck body for aerial lifts
- **Sinoboom** is transporting work platforms to Europe via the **China-Europe Railway Express**
- UK's **Bryn Thomas** has taken its fourth 150t **Grove GMK 5150XL**
- UK's **GT Access** has ordered 200 **JCB** scissor lifts
- **Gruas Y Maniobras del Bajío** has taken a 700t **Liebherr LTM 16050-8.1**
- **Boels** has secured a €100 million loan to add more electric machines to its fleet
- **Baloo Hire** in Ireland has taken two 80ft **Genie S-80 J TraX** tracked boom lifts
- UK's **National Lifting Solutions** has taken a 6t **Böcker AK46/6000**
- UK's **City Lifting** has taken a new 450t **Tadano AC 7.450-1**
- Germany's **Bruns** has taken a 70t **Liebherr LTM 1070-4.2**
- Saudi's **Arabian Consolidated Trading** has ordered 18 cranes from **Liebherr**
- **Investindustrial Group** has acquired a 70% stake in loader crane manufacturer **Fassi Gru**
- **Mammoet** and **Tiong Woon** have agreed to join forces in Thailand
- Germany's **Armo** has taken eight new **Palfinger** truck mounted lifts
- Germany's **Leitner** has purchased a **BG Lift M250** telescopic spider crane
- **Versalift UK** has promoted **Sophie Beeby** to customer service, sales administration manager
- Dutch rental company **Collé Rental & Sales** has opened a second location in Denmark
- Germany's **Stütze-Späth** has taken its first crane, a 110t **Liebherr LTM 1110-5.2**
- **Snorkel** has appointed **Callum French** as area sales manager and **David Roddy** as special projects leader
- Germany's **Gerken** has added 20 **Magni RTH 5.18** telehandlers to its fleet
- Italy's **Assistedile** has taken a **Raimondi T147** for work on the **Ferrari HQ**
- **Multitel** has appointed **Hybeko Group** as dealer in Sweden, Norway and Finland.
- **Dan Wolff** - a former engineer **National Crane** - has died
- **LGMG** has appointed **Aron Westby** as UK sales director, and **Tommy Härtig** as sales manager for Germany
- Italy's **ATI** has taken its first 20m **CTE Zed 20.4** HN truck mounted platform
- UK's **Bob Francis Crane Hire** has taken a **Liebherr LTM 1120-4.1**
- New Zealand crane rental company **Diack Bros** closed its doors at the end of 2023
- Germany's **I & H Kran Transport Montagservice** has taken five new **Liebherr** cranes
- **Snorkel** is starting production of the 13ft **S3013** mini scissor lift
- Chinese forklift manufacturer **Hangcha** has appointed **Alfred Müller** as aerial work platform country manager for Germany, Austria, Switzerland and Belgium
- **Emsley** has taken two **Liebherr**s - a 60t **LTM 1060-3.1** and 90t **LTM 1090-4.2**



Céline Brard



Hervé Rochet



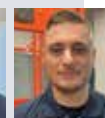
Adam Caulfield



Sophie Beeby



Dave Roddy



Callum French



Tommy Härtig

REWRITE THE STORY.

HA16 E - new electric rough terrain model

The best boom to reach Juliet
(according to Romeo)



And unlimited duty cycle
with the **interchangeable**
Range Extender



AS SAFE AS IT CAN BE?

Most people will agree that using an aerial work platform is one of the safest ways to work at height. And yet there are still far too many incidents - many of them fatal - involving platforms, and in particular boom lifts.

Looking back through Vertikal.net over the past year or so reveals a steady stream of news stories highlighting such incidents, most of which fall into three main categories: overturns, electrocution and being thrown from the platform, often due to a collision either from a passing vehicle or a falling load such as a tree limb or steel beam. For more details on incident and platform types, IPAF's Global Safety Report 2023 presents a comprehensive overview. We also know that neither Vertikal.net nor IPAF's statistics come close to presenting the full extent of the issue, it is almost certain that the majority of such incidents actually go unreported outside the immediate region.

What is worrying is that the type of incidents and causes are much the same as they were 10 years ago with little sign of change. The top five also include falls from the platform and entrapment. In an effort to reduce incidents, most companies have invested in more training, while IPAF and other associations have instigated numerous safety campaigns. Last year IPAF launched its 'High Voltage!' campaign aimed at reducing the number of electrocution incidents which are particularly prevalent in the United States, due to the greater number of overhead power lines in the country running alongside



Collisions with a passing vehicle are becoming more frequent

Contractors are becoming aware of the risks of moving 100ft plus boom lifts

buildings, trees and communication lines, rather than a lack of training.

As with all incidents - whether they result in a near miss or a fatality - they are rarely the fault of the equipment, 99 times out of 100 it is down to operator error. Training has of course made a huge difference to the overall safety of the industry with reported deaths declining slowly year on year, in spite of the growing numbers of aerial lifts in use. However, as has been said

many times before, training is not competency, and even very competent operators have been known to take a short cut, or ignore procedures and protocols - it is, after all, human nature.

OVERTURNS REDUCING

For many years outrigger mats and pads - inadequately sized or total lack of - were one of the main causes of incidents, particularly with cranes but also with truck and trailer mounted



The Fastn system



The Harness On installation

platforms - machines relying on outriggers for stability. Thankfully the number of incidents has fallen substantially as more users appreciate the need to spread the load.

But at the same time the number of larger self-propelled boom lifts in use has ballooned, along with the number of incidents of overturning, as users struggle to understand the high point loadings these machines apply and the impact that has on differing ground conditions. Contractors are though becoming aware of the risks of moving 100ft plus boom lifts around, or even just working with them was well as when loading and unloading.

BRILLIANT IDEAS

One company that has been spreading the message widely in the past couple of years is UK based Brilliant Ideas with its Alimats product line which includes standard trackway allowing aerial lifts and other heavy equipment to travel across soft ground to a place of work or new site set up.

According to Brilliant Ideas, one of the main challenges when developing a solution for a given project is obtaining the datasheet for the equipment in order to find information such as wheelbase, track width and contact area of

the wheel on the ground, as well as maximum load applied. Such information is critical to understand the impact on the ground and design an appropriate matting system. *See case study below.*

FALLS FROM PLATFORM

Falls from a platform are the main cause of reported incidents and fatalities when working at height. Over the years these figures have been reduced by increasing awareness through training and media campaigns of the need to wear a harnesses with a short lanyard attached.

Over the past year or so several systems have arrived on the market designed to ensure that harnesses are attached to harness points including Haulotte's 'Fastn' and Nationwide Platforms' 'Harness On' systems.

The latter system hit the news late last year when major UK contractor Willmott Dixon mandated its use on all boom lifts used on its sites. The 'Harness On' system employs a link between the platform anchor point and the lanyard which senses when a lanyard is attached - or not. It is wired into the platform's controls so that anyone planning to operate the platform must first attach their lanyard to the device thus

enabling the controls.

The company said: "Willmott Dixon has teamed up with Nationwide Platforms, which has developed a system called 'Harness On', which works by requiring anyone operating a '3b' boom lift to wear a harness with its lanyard connected to a specific intelligent anchor point within the platform's basket."

"'Harness On' is now mandatory, meaning that only 3b boom type lifts with the new system installed can operate on a Willmott Dixon project. This is to reduce to zero the chance that an operator using a platform could fall to the ground because they have not connected their harness correctly."

The fact that only a small percent of machines were equipped with the system at the time, seems to have escaped the contractor. There is also no mention of alternative systems, such as the more comprehensive 'Fastn' system from Haulotte, which also detects a stricken operator in the platform, and which does not need to be wired into the control box. And according to Haulotte it can be installed on any platform with a foot pedal in around 10 minutes. ■

CASE STUDY

LOAD SPREAD SOLUTION FOR FK GROUP

FK Group - working for main contractor Sir Robert McAlpine - needed a solution to spread the ground loadings of a 185ft JLG 1850SJ Ultra telescopic boom lift during finishing works. The boom had to work on recently constructed hard landscaping adjacent to a façade with twin elevations.

The 1850SJ - which weighs in at 27.4 tonnes - has a working height of 58.5 metres, and horizontal reach of 24.38 metres. The overall width and wheelbase change significantly from being stowed for transport when it is 2.49 metres wide - the outside edge of the tyres - to 5.04 metres when working, at the same time the wheelbase goes from 5.52 metres down to 4.59 metres. To allow the axles to swing out

into the working position a frictionless layer of two plastic mats were placed above the Alimat modules, a popular solution for this size and type of machine.

"With all mobile work platforms there are two load cases that need considering - tracking and operating. The latter imposes loads similar to mobile crane outriggers, but through the wheels. Both conditions were considered in our proposal and approved for use," says Brilliant Ideas.

When the machine arrived on site, it was driven between two immovable bollards (Load Case 1 - Tracking), then onto the platform with the plastic layers where the axles were extended/retracted (Load Case 2). The machine was then driven to its final position (Load Case 3 - Tracking/



Brilliant Ideas came up with the solution to spread the ground loadings of a 27.4 tonne 185ft JLG 1850SJ Ultra boom

Operating) where an additional layer of mats was used, which simulates a standard outrigger mat arrangement.

Ethafoam was also used below the mats to ensure they could work as intended by distributing the load evenly and protect the newly laid hardstanding.

**NEVER OUT
OF REACH**



Sole UK Distributor for XCMG Access Equipment

GÊNÊSIS
EQUIPMENT SALES

CALL OUR TEAM TODAY ON 01933 232 664
OR VISIT WWW.GENESISEQUIPMENTSALS.COM

SCAN HERE
TO FIND
OUT MORE





XCMG's 224ft, 70 metre working height XGS70K

A MAJOR SHIFT IN BUYING ATTITUDES

Perhaps the biggest change to the self-propelled boom lift market in recent years is how quickly rental companies in the well-established markets of Europe and North America have been prepared to drop their normal conservative buying attitudes and purchase large numbers of booms from new Chinese based manufacturers. Some rental companies have always been adventurous with small equipment purchases, such as micro scissor lifts, but when it comes to high ticket items like a boom lifts, telehandlers or big truck mounts they have always stuck with the big, largely American/European brands that are familiar to their customers, have known levels of reliability and predictable resale values. Until now...

Veterans at Skyjack, UpRight or even Haulotte will tell you just how difficult it is, or was, to break into the boom lift market - even when you are a market leading scissor lift supplier. Changing attitudes might be one thing, but certainly timing has also been a significant factor, as supply chains and pandemic shutdowns restricted volumes, while Chinese financiers were awash with cash and eager to invest in up and coming manufacturers and rental companies, to try and provide some diversification from the property market.

That allowed Chinese manufacturers to take risks that most publicly quoted (non-tech) western companies would never take, such as investing in large state of the art facilities, huge levels of research and development and perhaps most importantly large sales inventories. In a small way it bears parallels to the early days of JLG, Genie and perhaps Haulotte. As a result, when lead times from western manufacturers were long, the new arrivals have units in stock and are ready to deliver with an attractive price.

While taking the opportunity presented they also invested massively, developing all aspects of their business including new products, further manufacturing advances and capacity, overseas sales teams, product support and marketing - progressing from me-too products to something altogether more innovative.

The growth has also been stimulated by an explosion of demand in China's home market as minimum safety levels have been raised and rental entrepreneurs seized the moment and financiers' cash to build substantial businesses. In 10 years, the local market has grown from nothing to one of the largest in the world.

More than ever, boom lifts are becoming a global product, with major manufacturing facilities now found in China, India, Europe and North America. If there is one thing that the Chinese know how to do and do well, it is manufacturing on a large scale.

THE NEW MEGA BOOMS

One interesting recent development is the



The XGS70K has a five section telescopic boom, topped by a three section jib with 131 degrees of articulation

expansion at the top end of the boom lift market - over 150ft - with the number of suppliers more than doubling, while the number of products in this rarified sector has probably tripled. Zoomlion and XCMG are the new entrants, not only joining Genie and JLG but also introducing ever higher models as the two crane and construction equipment manufacturers do battle. Snorkel also dipped its toe in the market in 2020 with its 210ft platform height 2100SJ, however while units are out on site trials in the USA, the manufacturer does not quite seem to have fully committed itself to the market yet.

Last May we saw the first pictures of XCMG's 224ft, 70 metre working height telescopic boom lift and within a few months of the announcement, the first batch of export XGS70K lifts were

ACCESS WITH ZOOMLION GREEN

2024
**INTER
MAT.** VISIT US AT
BOOTH NO. EXT5 F032
24 ▶ 27 APRIL
PARIS-NORD VILLEPENTE



ZOOMLION

Zoomlion Intelligent Access Machinery Co., Ltd.

Add: 701 Xiangnan Lu, Xiangjiang New District, Changsha Hunan, China
E-mail: sev.france@zoomlion.com/EMEA.services@zoomlion.com

Tel: +33 613527588 / +33 6670580041





North American buyers put the ZT215J through its paces



In a yard in the Louisiana gulf region

shipped to the Europe with the first arriving in the UK. XCMG says that a further 24 units are scheduled for Europe by mid-year - with the majority already sold. Two further units have also been shipped to India.

The XGS70K has a five section telescopic boom, topped by a three section jib with 131 degrees of articulation, providing a working height of just under 70 metres and a maximum outreach of 32.5 metres with 230kg in the platform. The maximum platform capacity is 460kg at an outreach of 27 metres, while 300kg is possible at just under 30 metres. The machine has an overall retracted width of just under 2.5 metres, extending to 5.5 metres when working on site. Total weight is 35.4 tonnes and the overall stowed height is 3.1 metres, with a stowed transport length of 16 metres.

Zoomlion unveiled its 215ft ZT68J at the end of 2020. Most if not all the first production units were delivered to customers in China, where demand for these big machines has driven their development. This year the first two units have

arrived in North America where it becomes the ZT215J. The first unit was delivered to Groupe ELG in Quebec, Canada, while the second was shipped to Mexico where Segamac, the Mexican subsidiary of German international rental company Mateco is the Zoomlion access distributor, as is ELG in Canada.

While slightly smaller than XCMG's XGS70K it also has a five section boom but a two rather than a three section articulating jib giving 31 metres of outreach with the unrestricted 300kg platform capacity. Maximum platform capacity is 454kg available at an outreach of just over 25 metres. Overall stowed width is 2.5 metres, which increases to around 5.5 metres in work mode. Total weight is slightly more however at just under 36 tonnes.

The only other boom lift over 200ft is the 210ft Snorkel 2100SJ launched at Conexpo in 2020 - at the time a world record. The 2100SJ also features a five section boom, with a simplified telescope system, topped by a 9.1 metre two section telescopic articulated jib for a maximum



working height of 65.8 metres and up to 33.5 metres of outreach. The unrestricted platform capacity is 300kg, while the maximum capacity of 454kg can be achieved at almost 30 metres and a working height of 60.5 metres when the telescopic jib is retracted. Maximum drive height is 64 metres.

The major issue with such large booms is transporting them to and from site. 70 metre truck mounted lifts are relatively commonplace these days and dimensionally not so different to these Mega booms while having a potentially lighter load bearing footprint. Before the 200ft plus booms arrived, Genie and JLG had the market to themselves for several years. However, there is no indication that either will be rushing to introduce any larger boom lift models any time soon. The main issue is the amount of investment and sheer engineering time required for such large booms relative to the potential volumes and returns.

THE 46FT SECTOR

Over the past year, the majority of the new booms from Haulotte, JCB, Sunward, Sinoboom, Genie and LGMG have been articulated models in the highly popular 45/46ft mark - 15 metres working height - a market that originated in the 1980s with the Genie 45, although it was not the first to develop an articulated boom lift.

PULSE BOOM

Last month Haulotte announced a new 46ft all-electric articulated Rough Terrain boom lift - the HA16 E - along with the higher specification HA16 E Pro with the public unveiling at last month's ARA Show. The new boom lift has the same performance as the diesel model in terms of operating speeds and gradeability thanks to its direct AC wheel motor drive, but is equally at home working indoors or out. The new boom



Genie's biggest boom - the SX-180



Until XCMG and Zoomlion's 200ft plus booms arrived, JLG and Genie had the market to themselves



ALIMATS®

Load Spread Solutions for MEWPS and Scissor Lifts

- Nationwide hire service available
- Quotation provided with site specific drawing
- Free technical support
- Own dedicated delivery vans
- Supply and installation service



Interlocking modules are easier to set up and enables greater structural performance



All aluminium mat modules are handleable for two people to offload and position



System deals with varying load cases



Trusted by some of the biggest construction and crane hire companies in the UK

To view and download our specifications and drawings for cranes and MEWPS, please go to:

brilliantideasltd.co.uk/alimats



Request a free CPD seminar: 'Good practice when specifying outrigger mats'

Get in touch to find out more

T. 01335 345111 E. enquiries@brilliantideasltd.co.uk W. brilliantideasltd.co.uk



Haulotte's new HA16 E



The HA16 E is available with Haulotte's Range Extender

is available with Haulotte's Range Extender generator pack, effectively converting it to a hybrid machine. The unit shares features and systems with Haulotte's now well proven Pulseo Rough Terrain scissor lifts.

The design is similar to the diesel with dual riser, two section telescopic boom and articulating jib and a working height of 16 metres, although outreach is 400mm less at 7.9 metres, but it has more up & over reach at 7.88 metres and a higher maximum/unrestricted platform capacity of 300kg. Overall width is a compact 2.3 metres, but it is almost a tonne heavier than the diesel at 7,120kg.

Charging solutions include plugging into a normal AC mains socket or three phase outlet for faster charging, or the diesel Range Extender, which according to Haulotte, can be installed in around five minutes as long as you have a forklift handy, can recharge the battery pack from zero to 80 percent in around three hours.

The standard HA16 E has four wheel drive, two wheel steer and fixed axles while the Pro version also has four wheel steering and an oscillating front axle along with a higher standard specification.

SUNWARD'S ELECTRIC BOOM

Sunward has become more active in the aerial lift market over the past 12 months, mostly with scissor lifts, but has now added a 46ft electric articulated Rough Terrain boom lift - the SWA16JE. The new model features a classic dual sigma type riser, two section telescopic boom and articulated jib with maximum working height of 15.8 metres, and an outreach of around eight metres at an up & over height of 7.5 metres with a 230kg unrestricted platform capacity.

The standard specification includes four wheel drive, 360 degree continuous slew, 160 degrees

platform rotation and oscillating axle. The overall width is narrower than some at 1.75 metres, but that is reflected in the 230kg platform capacity and overall weight of 7,800kg. CE versions are said to be ready for delivery with bulk shipments on their way. The company also has a 60ft articulated boom and some mid-size telescopic which are not yet available in Europe.

SINOBOOM'S 46FT TELESCOPIC

Another new 46ft boom, this time a telescopic, is Sinoboom's TB14J Plus in Europe or TB460J Plus in North America. In many respects it is a classic 46ft telescopic boom lift with articulating jib, offering a maximum working height of 16.1 metres, and a maximum platform capacity of 454kg. Maximum outreach is 10.9 metres with the unrestricted capacity of 250kg, while 10 metres is possible with 340kg in the platform and 9.1 metres with the 450kg. Platform rotation is 160 degrees.

The new lift is unusual for a 46ft telescopic in that it features a three rather than two section boom resulting in a shorter stowed length of 7.99 metres with jib out or 5.88 metres with jib tucked under, although that raises the overall stowed height from 2.49 to 2.8 metres. Being shorter allows two units to fit into a 40ft shipping container or on a standard flatbed truck. Overall width is 2.3 metres, slew is 360 degrees continuous and overall weight 7,300kg. Power comes from a relatively small Kubota Stage V/ Tier 4 diesel, while a Yanmar is available for other markets.

The TB14J Plus features four wheel drive and oscillating axle providing a 40 percent gradeability. A seven inch display screen shows real time machine status, performance and usage data, along with rapid fault diagnosis. The first units are expected to ship before the end of this year.

GENIE UPDATES 'XTRA CAPACITY' AND TRAX BOOMS

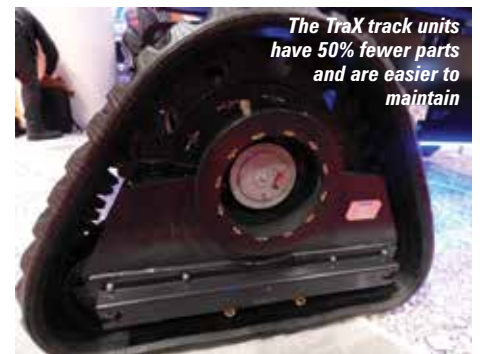
Genie has added two 'Xtra Capacity' booms - the 45ft S-45 XC and the 65ft S-65 XC - and launched the next generation of its TraX four track system for boom lifts. The TraX system has been redesigned and claims to simplify maintenance, with 50 percent fewer parts, more of which are unique to Genie, while maintaining the current performance features. The system is available as a factory installed option on four boom lifts - the regular 62ft Z-62/40 and 80ft S-80 J telescopic - along with the two 'Xtra Capacity' telescopic booms - the 45ft S-45 XC and 65ft S-65 XC. Genie plans to offer retrofit 'upgrade' kits for all new S-65 XC and Z-62/40 wheeled boom lift models.

The four independent tracks avoid the break over issue of normal full length tracks on uneven ground, while maintaining the oscillating axles of wheeled machines, adding the ability to swivel up and down by 22 degrees, helping the tracks tackle obstacles on the most extreme terrain. As with the existing product, the tracks can be swapped for tyres for flexibility in use, or resale, and as already mentioned the new TraX units will also fit on new wheeled booms shipped from this year onwards.

Shortly before the announcement of the upgraded TraX system Irish rental company Balloo Hire took delivery of two of the existing 80ft Genie S-80 J TraX models, the first to be delivered in the UK and Ireland.



The new TraX booms offer the ability to swap between tracks and wheels with commonality across the range



The TraX track units have 50% fewer parts and are easier to maintain



Sunward has become more active in the aerial lift market over the past 12 months, adding the 46ft electric SWA16JE

Sinoboom's TB14J Plus in Europe or TB460J Plus in North America features a three rather than two section boom resulting in a shorter stowed length



**DINGLI UPGRADES
D SERIES BOOMS**

Dingli has upgraded its D Series of articulated and telescopic boom lifts to provide unrestricted platform capacities of 320kg. Introduced last October, the D Series uses a modular build concept with four working heights of 16, 18, 20 and 22 metres and a choice of articulated or telescopic lift mechanisms. Each model is available with three power options Electric, Hybrid - Electric with a small generator - and pure Diesel resulting in a total of 24 variations.

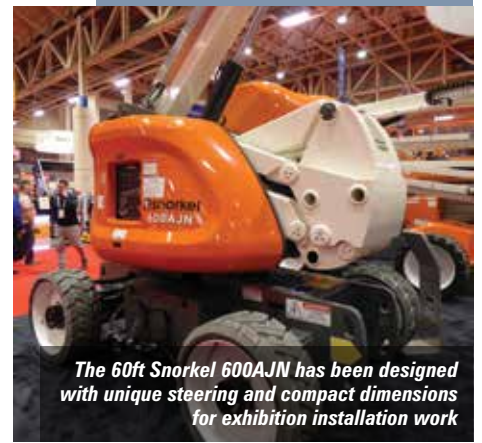


The 59ft Dingli BA20RT diesel version

All models feature four wheel drive as standard with oscillating front axles, 360 degree continuous slew, 180 degree platform rotation, secondary guarding against entrapment or crushing, articulated jibs and end mounted platforms. They also retain their drive at full height performance. Dingli has not yet confirmed all of the design changes required to achieve the additional capacity, but the specification sheets suggest a little more weight has been added and possibly a little less outreach.

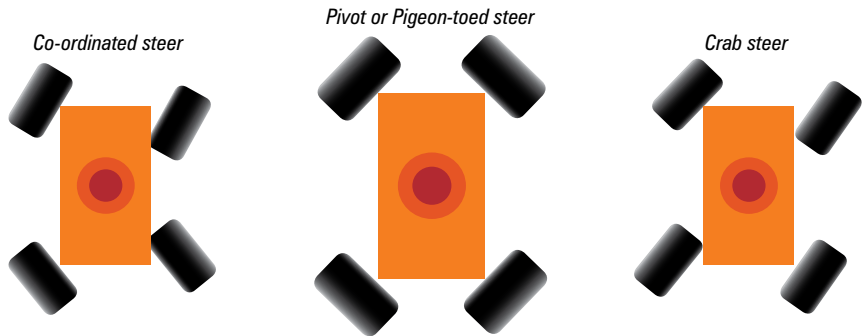
'PIGEON-TOED' SNORKEL

This year's ARA Show had several interesting boom launches including an all-new 60ft articulating model from Snorkel designed for major exhibition set up and teardowns - the 600AJN. The two standout features are the short stubby over centre two element riser which almost eliminates any riser tail swing even when fully lowered. The other is a new five mode steering system, the four wheels can all be steered independently allowing the machine to 'spin' around its central axis with wheels on the same axle turning in opposite directions, to offer what



The 60ft Snorkel 600AJN has been designed with unique steering and compact dimensions for exhibition installation work

it officially calls pivot steer - or 'pigeon-toed' steering - add these features to a 2.1 metre overall width and it's easy to see why it will appeal for work where space is limited. The lift has all manner of options including a special 'exhibition platform' complete with storage trays and a platform mounted carrier for large display screens and graphic displays. Maximum platform capacity is 272kg.



**The 50ft Nifty HR17 H₂
Hydrogen-Electric boom lift**



A lightweight G-20 hydrogen gas cylinder

NIFTYLIFT HYDROGEN ELECTRIC

While most manufacturers have been busy on all-electric boom lifts, Niftylift has been working in co-operation with UK rental company Speedy Hire to develop hydrogen power for its electric boom lifts, starting with the 50ft HR17 H₂. So far there are around 40 to 50 units working in the Speedy fleet.

The new model is a version of Niftylift's standard all-electric, two wheel drive boom lift with direct electric wheel motor drive and AGM maintenance free batteries, with a lithium-ion battery option. The Hydrogen models are equipped with a hydrogen fuel cell, fed by a standard G20 hydrogen gas cylinder which produces electricity to top up the battery pack when necessary, and can be set to provide a constant top up, or only when the state of charge drops to a pre-set level, thus preserving the hydrogen.

As straight electric machines, the HR17s are said to be capable of four to five days work between recharges in typical applications. However, for sites where no electric power is available, a single hydrogen cylinder should enable the machine to run for more than 12 working days of typical usage, before requiring a cylinder change. The system can also alert the operator and/or owners when the gas level in the cylinder falls below a pre-set point, so they are prepared. The cylinder/fuel cell concept looks like an ideal solution for mid-sized boom lifts as the machines

are clean, quiet and powerful as well as being low maintenance and capable of running for two or three weeks or more on a single small cylinder, which can be quickly and easily changed. It seems more practical than the hydrogen/internal combustion solution, although that might prove more suitable for larger equipment?

NEW JCB BOOMS

Last May, JCB launched electric and hybrid versions of its 45ft AJ48D articulated diesel boom lift sold in North America, and confirmed that all JCB aerial lifts will now be built at the company's facilities in India.

The A45E and A45EH are basically one and the same machine, with different power options. The maximum working height is almost 16 metres with a maximum outreach of 7.47 metres at an up & over height of 7.48 metres and an unrestricted platform capacity of 300kg. Features include secondary guarding, non-marking tyres and JCB's LiveLink real-time remote monitoring system.

The 48 Volt A45E is powered by eight, six Volt batteries, located on either side of the chassis for a low centre of gravity, powering four AC wheel drive motors. The A45EH uses a three cylinder Kohler diesel with generator to top up or recharge the batteries so you might call it a range extender, its 40 litre tank is said to have enough fuel for a week of typical use.

FIRST JCB TELESCOPIC BOOM

JCB also unveiled its first telescopic boom - the 65ft T65D - at the ARA Show last month which is available in North America and other non-European markets. The T65D has a Tier4 JCB diesel with all service points on one side for easy access. There are no plans at this stage for StageV or electric versions. The unit has a three section boom, topped by a 1.53 metre jib with 135 degrees of articulation. Outreach is 17.23 metres with 300kg while the maximum platform capacity of 454kg is available at up to 14.5 metres. The overall width is 2.4 metres, with an overall length of just over 10 metres while total weight is 12,655kg.

LGMG'S NEW 45FT

When LGMG opened its new facility in Dordrecht last April it also unveiled a new 45ft dual capacity articulated boom lift, the AR14J-H/ AR45J-H. The machine offers a maximum working height of 15.9 metres and an outreach of just over eight metres with the unrestricted platform capacity of 300kg, at an up & over height of 7.3 metres. The 450kg maximum capacity is available at 6.5 metres outreach. The unit has standard four wheel steer, with one touch wheel alignment, four wheel drive with oscillating axle, 45 percent gradeability and can work safely on a five degree slope. Power comes from a Kubota diesel, while the overall weight is 7,400kg.

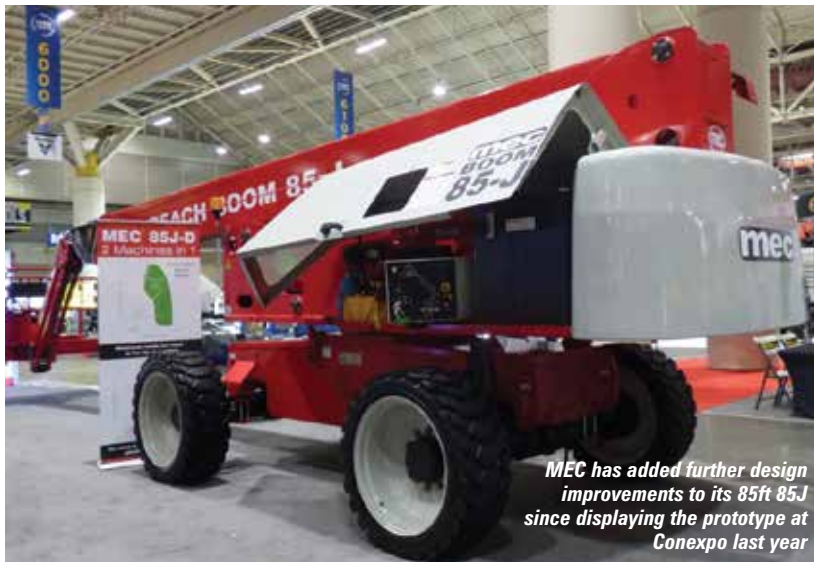
The 45ft dual capacity AR14J-H/ AR45J-H articulated boom lift



The JCB T16D is its first ever telescopic boom lift



JCB launched electric and hybrid versions of its 45ft AJ48D articulated diesel boom lift last year



MEC has added further design improvements to its 85ft 85J since displaying the prototype at Conexpo last year



The 40ft MEC boom 40AJ - one of two new booms at the ARA show

MEC'S NEW BOOMS

Around the same time last year, US aerial lift manufacturer MEC unveiled a prototype 85ft boom lift the 85-J - its largest model to date. Using the feedback it received it made a number of further developments. The boom features two modes of operation - as a telescopic boom or an articulated - with a simple switch on the lower controls converting from one format to the other. Electric and hybrid versions are scheduled to arrive later in the year.

The unit uses a heavy-duty over-centre single element riser, three section boom and jib with up to 135 degrees of articulation. The unrestricted platform capacity is 272kg with a maximum platform capacity of 408kg.

In telescopic mode the riser acts as a rising pivot point automatically working proportionally with the main boom on a single joystick action, in a similar format to those seen on the Genie S-85 J or similar to the S-80 XC and JLG 860SJ. Maximum outreach is 21.6 metres with 272kg or 19.5 metres with 408kg. In articulated mode the operator operates the riser independently of the boom elevation function, the maximum up & over height is 6.4 metres, with an outreach of 17.6 metres with 272kg and just under 16 metres with 408kg.

The new 85-J also has two oscillating axles providing up to seven degrees of automatic frame levelling. When the two axles are parallel - such as side-on to a ramp - the machine can travel

while elevated. Four wheel three mode steering is standard. Overall weight is just over 17 tonnes and width is a hefty 2.6 metres.

AN ARTICULATED 40FT

The other new MEC boom lift is the 40ft 40J based on the highly successful 34J compact telescopic, developed in co-operation with United Rentals and launched in 2020. A single section riser and 135 degree articulating jib have been added to gain the 1.8 metres or so of extra reach. Outreach is around nine metres at an up & over height of 4.3 metres with the 272kg unrestricted platform capacity. Overall stowed length is just over six metres, width is 2.44 metres and it weighs in at 5,170kg. Four wheel drive and oscillating axle are standard. ■

VERTIKAL DAYS
NEWARK SHOWGROUND
11th/12th SEPTEMBER
2024

STAND N° 117

B220TJ
COMFORT XEE

HEIGHT 22,0 m
MAX. OUTREACH 14,0 m
BASKET CAPACITY 250 kg



TEREX ROUGH TERRAIN VERSATILE PRODUCTIVITY



35

44

45

65

70

80

90

Max capacity (t)



30,1

31,1

32,4

34,0

37,4

42,1

43,5

47,0

Maximum main boom length (m)



TEREX® | **RT**

in f

www.terex.com/rough-terrain-cranes



T-LINK
Telematics platform



TEOS
Operating System

*A Link-Belt RTC-80130
SeriesII working in Antarctica*



ARE ROUGH TERRAIN CRANES 'OVER A BARREL'?

Historically, the fortunes of the Rough Terrain crane market are said to follow the average price of a barrel of oil, with a price of around \$60 appearing to be the make or break point. The average price today is around \$76, down from a high of \$94.53 in 2022 and \$77.64 last year.

With a product development period of about two to three years or so, the significant price increase since the low \$40 in 2020 to \$116 in May 2022, may account for many of the new RT cranes being launched onto the market over the past year or two. The main market for RTs is North America followed by the Middle East, with a high proportion of units going into the oil related market sector. Perhaps the fact that for many producers the Rough Terrain crane is their most profitable model may also be a factor.

A strong day to day crane rental sector in most parts of Europe meant that truck cranes and laterly All Terrains were the crane of choice, rather than Rough Terrains. One exception was Italy due to contractors buying their own machines rather than renting them. There are some signs that the European market might be shifting a little towards Rough Terrains, possibly

*Liebherr's new 130 tonne
LRT 1130-2.1 is possibly
a sign of a move towards
larger RTs?*



due to stricter road regulations and a trend in certain sectors towards keeping cranes on site for longer periods. But also, as a result of improvements in the 'transportability' of the latest models on the market, not to mention improved technology and longer booms.

The major developments over the past 12

months have included the introduction of the first all electric RT from Tadano, and a move towards larger models such as Liebherr's 130 tonne LRT 1130-2.1 - even though the volume market falls between 60 and 80 tonnes - a far cry from the 1970s and 1980s when the vast majority of RT sales were between 15 and 25 tonnes.

ALL ELECTRIC TADANO

Tadano has been working on its battery electric RT concept for several years and was finally confident enough to launch its first model, the 90 tonne GR-1000XLL EVolt at Conexpo last March.

The new crane will initially only be available in North America, Tadano's largest and most profitable export market. In essence it uses the same superstructure as the standard GR-1000XLL Rough Terrain, with a five section 46 metre main boom topped by a 10.1 to 17.7 metre bi-fold swingaway extension, providing a maximum tip height of 66.6 metres. However, it is mounted in a very different chassis with an all-new driveline powered by a lithium ion battery pack, said to be capable of a typical nine hour shift.

The battery pack feeds an electric motor which drives the hydraulic pumps mainly for the superstructure, while two large inboard electric motors are employed for the drive function - one for the front and one for the rear axle. This format was chosen to simplify the drivetrain and reduce the number of shafts required while creating more space within the chassis.

The battery can, according to the company, be fully recharged in seven hours with the standard onboard system, or two hours using a Tesla fast charger. The crane can also be operated while plugged in - a simple selection switch allows for 30, 50, 75 or 100 Amp inputs - as long as an AC outlet is available on site, of course.

Tadano claims the crane can travel an average of 12.5 miles on a single charge, although with regenerative braking this may be extended. Top speed is 11mph (18kph) which is the same as the diesel model.



The battery charging input station

The crane performance - in terms of function speeds and line pulls etc - is said to be exactly the same as the standard diesel unit, and while emissions are important the company says that one of the main driving forces behind the crane's development was noise, confirmed by customer input. The EVolt is almost silent with most of the residual noise emanating from the hydraulics, or the axle whine when travelling.

Finalisation of the production version always takes time, and the crane is scheduled for delivery sometime this year. However, at the end of last year Tadano introduced a smaller capacity battery electric model in Japan - the 25 tonne GR-250N EVolt. Again, it is the same as the equivalent diesel version but using electric power.

A 25 TONNE ELECTRIC

The GR-250N EVolt can reach a top speed of 49kph and can work a typical 11 hour shift or travel 25 miles (40km) and still have enough



Tadano launched its first battery electric RT - the 90 tonne GR-1000XLL EVolt at Conexpo

Tadano introduced a smaller capacity battery electric model in Japan - the 25 tonne GR-250N EVolt



energy for a typical five hour shift. The integrated regenerative braking system also helps boost travel and operating times. A rapid recharge from empty to full takes around eight hours on a standard outlet or two and a half hours on a fast charger. Tadano says that additional EVolt models are in the pipeline.

Tadano, of course, has an extensive lineup of 'North America Rough Terrains' ranging from the 31.8 tonne GR-350XL up to the three axle 145 tonne GR-1600XL. Given price differentials and the conservative nature of the market, most companies will stay with the existing diesel models, but there will be some market sectors that will find the new concept very attractive - it now needs a few 'product champions'.

Quebec based rental company Guay ordered 19 Tadano RTs last summer, ranging from the 50 tonne GR-550XL to the 145 tonne GR-1600XL, all diesel powered, although Guay made the point that the order was all about updating its RT fleet with the latest technology.

Guay executive vice president Guillaume Gagnon said: "We wanted to renew our RT rental fleet with better technology, like Tadano's Smart Chart, we also appreciate the reliability of Tadano RTs and the fact that they all have the same operational pattern and a lot of spare parts and components in common."

LARGER LIEBHERR RT

Liebherr unveiled its largest Rough Terrain crane so far at Bauma in October 2022, in the form of the long-boomed 130 tonne, two axle LRT 1130-2.1. It tops a three model line-up, adding to the 90 tonne LRT 1090-2.1 and the 100 tonne LRT 1100-2.1 which were launched in 2016 when the company returned to the RT market after abandoning it in the early 1990s, having failed to gain a foothold after around 10 years of trying. This time it has done considerably better and with steady progress it looks set to carve out a share of the market for itself.

THE LRT 1130-2.1.

The new 130 tonner features a seven section 60 metre main boom which it claims is the longest on a two axle Rough Terrain. It is topped by a 10.8 metre to 19 metre bi-fold swingaway extension with offsets of up to 40 degrees and can be extended with a seven metre insert for a maximum tip height of around 88 metres. A 2.9 metre assembly jib can also be stowed on the left side of the boom and a side folding auxiliary boom nose/rooster sheave is also available.



The new LRT 1130-2.1

The unit is 3.4 metres wide with an overall height of 3.85 metres, while the chassis length is 9.4 metres and transport weight 48 tonnes with swingaway and hook block, but not including the 20 tonne counterweight. Other features include tilting cab, Variobase variable outrigger set up and one touch AutoBallast installation function.

Zero emissions, full power

The climate change demands power concepts which reduce CO₂ emissions. That is why our LTC 1050-3.1E features an additional electric motor. The crane operations can be powered by electricity so that it can satisfy the requirements of "zero emissions" construction sites. The power for crane operations can be supplied from the site or a battery pack. The crane operates with full power as long as the electrical power supply is sufficient or by powering the machine using its internal combustion engine.

www.liebherr.com

LIEBHERR

LTC 1050-3.1E



Full electric

Innovation,
performance,
technology

100% ELECTRIC TELEHANDLERS



2.6t | 6m
Battery life
up to 11 hours



4-4.5t | 14-17m
Battery life
up to 8 hours

-80%

Maintenance
costs

High savings and
sustainability

Maximum power,
low noise levels

Fast charging
times



faresin.com

MAT & TIMBER SERVICES



CRANE MATS

OUTRIGGER MATS

**TEMPORARY
ACCESS ROADS**

RAMPS

**For all types of
cranes under any
application -
Nationwide and
Overseas**



TEL: +44 (0) 1264 811005
FAX: +44 (0) 1264 810600

e-mail: mats@sarumhardwood.co.uk web site: www.sarumhardwood.co.uk

The crane is also HVO fuel ready, lowering CO2 emissions by up to 90 percent. The first five units are in the process of being shipped to the US based All Crane group. US crane sales and rental company Bigge is also adding the new crane to its fleet.

Liebherr USA's general sales manager Brian Peretin said: "Larger Rough Terrains have become a phenomenon in the past 10 to 15 years. They offer many of the same features of All Terrains, but with a smaller footprint, pick & carry capabilities and a smaller cash outlay."

100 TONNE GROVE

Other Rough Terrains unveiled at Bauma 2022 included the 100 tonne Grove GRT8100-1, an upgraded version of its GRT8100, with a new chassis and componentry, taken from the larger 120 tonne GRT8120. The new 100 tonner also has an updated engine and transmission pack and new wider cab, with the option of the manufacturer's MAXbase variable outrigger setup and monitoring. However, it retains the overall dimensions, counterweight and five section, 47 metre full power boom of the unit it replaces.

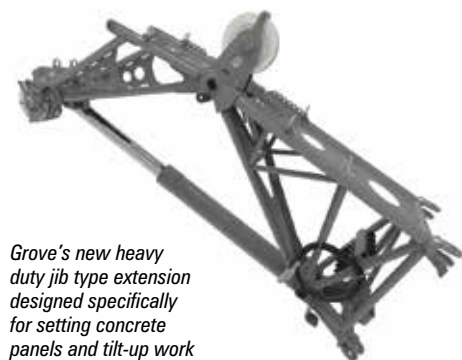
Late last year the first GRT800-1 to arrive in the UK was delivered to Scotland's port services group PSG Marine and Logistics, which took the full boom and extensions package. The company ordered the new crane at Vertikal Days last year and will use it to support dockside logistical operations, supporting the marine, offshore oil, gas and wind energy sectors in the Scottish Highlands.

Steve Clark of PSG said: "We have run a Grove RT600E Rough Terrain crane for many years and it has delivered reliable and productive service. In particular, it offers great time savings with its pick & carry capabilities."

Grove, a pioneer of the swing cab Rough Terrain crane in the late 1960s, dominated the market in the 1980s and into the 1990s, but now has to share the market with more players than at any time in the Rough Terrain's history. It now offers a range of 12 GRT Rough Terrain models ranging from 30 to 150 tonnes.

HEAVY DUTY LUFFING EXTENSION

Grove launched its first three axle RT - the 150 tonne GRT9165 - in 2018, aiming to go head to head with the 145 tonne Tadano GR-1600XL-2 and Link-Belt's RTC-80160 Series II cranes. The model has all the key features of the other cranes, with a slightly higher nominal capacity, a slightly longer main boom and, significantly longer boom extensions all in the same dimensional package.



Grove's new heavy duty jib type extension designed specifically for setting concrete panels and tilt-up work



Miron took the first heavy duty jib on its GRT9165 to set panels for a new high school in western Wisconsin

In late 2022 however, it introduced a new heavy duty jib type extension for the crane, designed specifically for setting concrete panels and tilt-up work. It was designed in collaboration with Wisconsin based contractor Miron Construction and local distributor American State Equipment. Miron had a backlog of this type of tilt-up work in the healthcare, warehousing, manufacturing and higher education sectors and has seen the size of concrete panels grow as demand has increased. Many panels now have an average overall width of 3.7 metres, while being 7.3 metres high with an all-up weight of up to 27 tonnes. The extension is also available as a retrofit for existing GRT9165s, as well as on new models.

The 3.8 metre long extension connects to the standard boom nose lugs and offers a maximum capacity of 31 tonnes. It offsets/luffs hydraulically from zero to 50 degrees and has a two sheave jib tip for reeving with up to four parts of line. It is designed to work with an auxiliary hoist in conjunction with the main boom to turn or tilt panels or other loads.

Miron took the first production unit on an existing GRT9165, using it to set panels for a new high school in western Wisconsin. The GRT9165 was configured with its full 27.8 tonnes of counterweight and working at a maximum tip height of 38 metres with a 15 metre radius and zero degree jib offset.

TEREX ADDS TO TRT RANGE

When Terex sold its Demag crane business to Tadano in 2019, it surprised many crane people by continuing to build Rough Terrains at its plant in Italy. Last year it launched the new 65 tonne TRT 65, the fourth model in its TRT/RT line which has capacities ranging from 35 to 90 tonnes. The crane features a 43.5 metre five section synchronised boom, an eight to 15 metre bi-fold swingaway extension with up to 40 degrees of offset, and a maximum tip height of 61 metres. Rated at 2.5 metres it can handle 60 tonnes at three metres. Capacity on the fully extended main boom is 10.1 tonnes, and it can lift 400kg



Terex's 65 tonne TRT 65

at the maximum radius of 38 metres. An 'extra wide' tilting cab features a large, glazed area and improved comfort for the operator.

Power comes from a Cummins Stage V/Tier 4F diesel, driving a Powershift transmission with two function modes - manual with three forward and three reverse speeds or automatic with six speeds forward and three in reverse.

Stefania D'Apoli, senior sales support manager for RT cranes said: "This new crane is an ideal example of our TRT cranes, since it features the new generation of the Terex Operating System (TEOS), which displays its information on a 10 inch full colour touch screen display with an intuitive interface. New features include the possibility to have a camera embedded in the screen, enabling the operator to watch directly from the TEOS display."

The first TRT 65 was delivered to oil & gas, petrochemical and energy industries company Welding Duebi, which is based in Fiesso Umbertino, Italy, for work in a refinery.

Welding Duebi chief executive Nicola Barotti said: "Within our refinery, from which we have contracted out maintenance activities, it is necessary to have at least one crane capable of carrying out all required tasks reliably and efficiently, available 365 days a year. While we have more than 20 Terex cranes in our fleet, the TRT 65 is an ideal solution for our refinery, since



The Terex TRT 65's tilting cab

it can work in the most congested spaces and areas with a restricted environment."

The crane's operator Gabriele Colonna added: "The TRT 65 is ideal for our work, thanks to its four steering modes and tilting cab, I also like the 'anti-stall' control which allows us to precisely manage the power and speed of the crane and the EcoMode function, which uses the automatic engine throttle to optimise power during crane operation and even the 'stand-by' function which reduces noise and cuts fuel consumption."

FIRST 55 TONNE XCMG

While the market for RTs in China is small, several Chinese companies have had some success in the developing world such as Sany, XCMG and Zoomlion. Sany has an extensive range of models from the 30 tonne SRC300T to the 120 tonne SRC1200. XCMG unveiled its new 55 tonne XCMG XCR 55L5_E at Bauma 2022. The first unit to arrive in Italy was delivered to international oil and gas drilling company Bonassisa Drilling of Foggia in Southern Italy, joining Bonassisa's four existing Rough Terrain cranes.

The XCR features a five section 43.6 metre main boom and can handle its rated capacity at a three metre radius and manage 11.1 tonnes on the full boom at a radius of nine metres. A 16 metre bi-fold swingaway extension - which offsets at 15 or 30 degrees - takes the maximum tip height to 62 metres. The overall width is three metres, transport length is 13.76 metres and overall weight 41.8 tonnes, split 50/50 between the two axles.

XCMG says the crane can be driven and operated equally with the boom over the front or rear and claims that it has the smallest turning circle for its capacity. The maximum travel speed is 40kph and maximum gradeability 70 percent. Features include a hydraulic torque driveline which XCMG says can reduce fuel consumption by 20 percent when driving at high speeds. An Eco energy saving mode also reduces fuel consumption by between five and nine percent during lifting operations.



The first XCMG XCR 55L5_E was delivered to Bonassisa Drilling (L-R) Rafael Romão and Jingwen Liang of XCMG, Angela Staniscia of TCT, Monica Bonassisa of Bonassisa Drilling, with Hu Yuan of XCMG and Gianluigi Ciarallo of TCM



Zoomlion launched its 50 tonne RTC500 which is built in Italy

NEW ZOOMLION 50 TONNER

Zoomlion has been adding to its already extensive crane and access product lines, including its Rough Terrain crane line-up.

The company has also been on the acquisition trail, taking concrete pump manufacturer CIFA in 2008, Jost flat top tower cranes in 2011, Raxtar hoists in 2014 and Wilbert tower cranes in 2018. In the same year Zoomlion Europe based its Italian headquarters near Milan and in 2021 opened a 10,000 square metre production facility in Castiglione delle Stiviere, between Brescia and Verona in Northern Italy, specifically for local assembly, customisation, PDI and distribution of Zoomlion lifting products including All Terrain and Rough Terrain cranes.

At Bauma it launched the new 50 tonne RTC500 with a 37.1 metre, four section main boom. All major components are sourced from European manufacturers, including Hydreco cylinders, Stage V Cummins engines and ZF transmission, as well as the winches and cooling system.

Features of the RTC500 include a 20 degree tilting cab with large glazed area, a touchscreen display for crane and chassis functions, a screen for

winch and rear view cameras, a load sensing system which helps reduce fuel consumption, four slew speeds from slow to fast controlled from the joystick, and a road speed of up to 30kph.

With outriggers fully extended and 5.5 tonnes of counterweight the RTC500 can lift its maximum 50 tonnes at 2.5 metre radius or 13.5 tonnes at 19.8 metre radius and 3.3 tonnes on the fully extended main boom at 17 metre radius.

A fleet management system tracks location, performance, fuel consumption, service and error logging and is available on customisable dashboards and reports. Overall weight is 31 tonnes, overall length 11.32 metres, overall width is 2.52 metres and overall height 3.45 metres.

LINK-BELT THREE AXLE RTS

Link-Belt has a seven model Rough Terrain range including two, three axle models - the 120 tonne RTC-80130 Series II and the 145 tonne RTC-80160 Series II - which are the largest in the range. The smaller two axle RTs range from the 60 tonne RTC-8065 Series II to the 110 tonne 120IRT.

There are currently a couple of Link-Belt RTs working in Antarctica - including a three axle RTC-80130 - as part of United States Antarctic Program, run by the National Science Foundation's Office of Polar Programs with the aim to help improve communications. Because of its remoteness there are significant challenges, including the sole reliance on satellite communications. Currently, internet support at NSF's McMurdo Station is about the same as that of a rural single family home but shared among anywhere from 100 to 1,000 people. The RTs are on hand for general lifting duties. ■



A Link-Belt RTC-80160



Sany has an extensive range of models from the 30 tonne SRC300T to the 120 tonne SRC1200



For ideas that tower above the rest

Our HC-L series luffing jib cranes enable quick, safe and reliable operation almost anywhere. Maximum lifting capacities of up to 64 tonnes, hook heights of more than 1,000 metres and a small slewing radius ensure efficient construction site work, even in the tightest spaces and under extreme conditions.

Contact your dealer at
www.liebherr.com/tc-partner

LIEBHERR

Tower Cranes

IN GREAT CHALLENGES, GREAT DETAILS MAKE THE DIFFERENCE



We combine technological innovation with craftsmanship to produce lifting solutions that rewrite the industry standards.

Our telescopic handlers are designed to overcome any challenge, thanks to unrivalled performance, best-in-class visibility and groundbreaking technological innovations.

RTH models are versatile solutions, genuine 3-in-1 machines as they can be used as telescopic handlers, off-road cranes and platforms.

We aim to enable you to work easily in a safe, comfortable environment, so you can be sure of performing at your best every day.



CABIN



PERFORMANCE



LIVE LOAD DIAGRAM



DOMES LIFT AT HINKLEY POINT C

At the end of last year Saren's 5,000 tonne SGC-250 - affectionately named Big Carl after the company's technical director Carl Sarens - successfully lifted the 245 tonne, 47 metre diameter, 14 metre high dome onto Hinkley Point C's first reactor building.

The major milestone closes the roof on the site's first, 44 metre high reactor building, allowing the nuclear reactor to be installed later this year. The power station's two nuclear reactors will provide consistent low-carbon electricity for six million homes, for around 60 years, while boosting Britain's energy security.

Starting at 07:20 in the morning the lift was planned to take advantage of a 'weather window' that ensured the 90 minute lift could be completed in low wind conditions.

The dome is the top part of the building's inner containment - a steel cylinder encased in concrete. At 47 metres diameter, it is wider than the dome of St Peter's Basilica in Rome - only 42 metres - and the one on the Panthéon in Paris - 44 metres. It is made up of 38 prefabricated panels which were shipped to Hinkley Point C and welded together onsite. Prefabrication and modular construction are key features of Hinkley Point C's construction.

Earlier in December, the 'Polar Crane' was lifted into place on top of the building's third and final steel liner ring. This internal overhead crane will rotate 360 degrees above the reactor and be used for refuelling and installing equipment. This was the last item that needed to be lifted into position

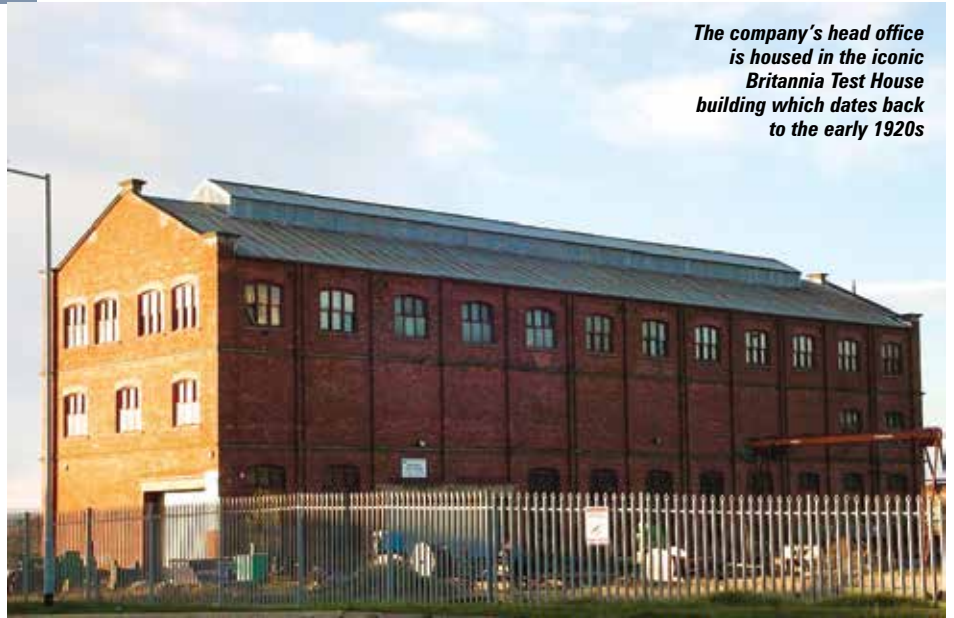


before installing the dome.

Nuclear Island area director Simon Parsons said: "Building the UK's first nuclear power station in a generation is a challenging job. Installing the dome allows us to get on with the fitting of equipment, pipes and cables, including the first reactor which is on site and ready to be installed."

Big Carl was shipped to the Hinkley C site almost four years ago on more than 400 trucks. It was

then rigged with 118 metres of main boom and a 52.3 metre luffing jib. In this configuration the crane can handle 4,250 tonnes at a radius of 40 metres and take a staggering 883 tonnes out to its maximum 170 metre radius. In terms of counterweight, the crane uses its 52 specially reinforced shipping containers which are filled with 'locally sourced ballast material' such as sand, to provide 100 tonnes of counterweight each - up to 5,200 tonnes in total. ■



The company's head office is housed in the iconic Britannia Test House building which dates back to the early 1920s

TESTING, TESTING....

UK based Durham Lifting offers a comprehensive range of lifting services including inhouse design and fabrication of modular beams and heavy lifting equipment, a number of testing facilities including a 3,000 tonne test bed and a sales and rental department. Editor Mark Darwin spoke with managing director Amanda Gardiner about its history, recent developments and plans for the future.

Durham Lifting was established in 1996 by Frank Pickersgill, a pioneer of the modular spreader beam concept. The company has revenues of £6 million, of which sales and rental account for about 30 percent with the rest split equally between fabrication, testing and service.



Amanda Gardiner

"Durham Lifting excels in providing comprehensive heavy lifting solutions, guiding our clients from concept to completion," said Gardiner. "With years of expertise dealing with large capacities, we offer various testing facilities capable of handling up to 3,000 tonnes. Our integrated design and fabrication facilities ensure we are the ideal partner for our client's needs."

The family-run business has recently undergone a change of ownership. The reins and 100 percent ownership now belong to Frank's daughter, Amanda - who has been managing director of the company for more than 25 years - and son-in-law Paul, a qualified design engineer and highly experienced proof load tester who has been instrumental in the development of the company's new product range. The third generation - in the form of his grandchildren Samuel and Olivia - are also involved in the business.

Durham Lifting is based in Middlesbrough in the

North East of England, with a branch in Newton Aycliffe. Expansion of the company has seen the launch of the branded product Multisecc, easily recognisable by its distinctive pink modular spreader beams and frame systems. Two years ago, Multisecc began expansion overseas with distributors in Europe and East Asia and these will be added to in the future.

SO HOW DID YOU GET INTO THE INDUSTRY?

"My father was a crane engineer at British steel and Kone Cranes, then partnered up with a company called Ken Elder Engineering," said Gardiner. "At 13 I needed something to do during the summer holidays and ended up answering the phone and running errands etc... When he became a director of Ken Elder Lifting, I became more involved and began working full time. I was running the hire department at 19 - dealing with some very big equipment even then - and became a managing director in 1996 at the age of 23. Growing the business has been challenging and has included lots of learning and great fun. I love being surrounded by a great team who share the passion for everything we do."

HISTORIC BUILDING

The company's head office is housed in the iconic Britannia Test House building which was purchased in 1991. It dates back to the early 1920's, when it served Teesside's rapidly growing industrial base which included shipbuilding and railways to satisfy demand for accurate testing and certification of materials.



The massive Avery test machine in the Test House that is still going strong today was commissioned to test girder beams up to 1,250 tonnes Sydney Harbour Bridge

The Test House initially focussed on assessing the mechanical properties - tensile strength, hardness, and resilience - of materials such as iron and steel. However, it soon evolved into a hub of innovation, collaborating with engineers, metallurgists and scientists to refine testing methodologies. This led to the establishment

Boom Length

Best in-class reach

Smart Chart

Expands the customary circular work area to take advantage of the maximum available lifting capacity

AML-E

Advanced control system with enhanced features

Unrivaled Reliability

Unique Quality

Reduced Fuel Consumption

- Fuel Monitoring
- Eco Mode System
- Automatic Pump Disconnect

Take a closer look at Tadano.

Discover how Tadano RT cranes deliver maximum lifting performance with unrivaled reliability.

Tadano RT cranes give your business the next-generation features you need to work safer, faster and more effectively than ever. Tadano View gives your operators a birds-eye view of the crane's surroundings on a large, multi-function display inside the cab. Reduce fuel consumption with Fuel Monitoring, Eco Mode and Automatic Pump Disconnect. And expand the working area to get the best crane performance in any outrigger extension setup with Smart Chart.

Take a closer look at what Tadano can do for your business.
Learn which models are available in your region at tadanoeurope.com.



The Avery test machine today

of industry benchmarks for material quality and performance as well as influencing local, national and international standards resulting in Britannia Test House's reputation as a pioneer in precision testing.

The current three storey brick building is the sole surviving remnant of the Britannia Steelworks, once owned by the revered company Dorman Long which in 1967 merged with South Durham Steel Iron Co, Stewarts and Lloyds to create British Steel and Tube just before the steel industry was nationalised becoming the British Steel Corporation.

Dorman Long constructed many of the most iconic bridges of the twentieth century including Sydney Harbour Bridge, the New Tyne Bridge, and the Tees Newport Bridge in Middlesbrough as well as the Forth Road Bridge in 1964, the Severn Bridge in 1966 and the Humber Bridge in 1981.

The massive Avery test machine in the Test House that is still going strong today at Durham Lifting was commissioned to test girder beams up to 1,250 tonnes for the 134 metre high Sydney Harbour Bridge construction of which opened in 1932.

TESTING

"The need for testing has never been higher, proving equipment before it is put into use is a vital requirement to prevent future failures or accidents," said Gardiner. "Testing proves the concept and Durham Lifting always ensures it knows how the equipment is used to ensure



Having the engineering skills inhouse means Durham Lifting can adapt to any test situation

testing simulates working conditions. We take great care and pride in our work to ensure accuracy. A 'factor of safety' is applied to all products manufactured inhouse, and testing the equipment as used provides a safe approach to prove calculations."

"Having the engineering skills inhouse means we can adapt to any situation," she said. "No day is ever the same - we may carry out a jack/hydraulic test off pulling heads on the shop floor, a mobile crane in the yard, on the 1,250 tonne Avery bed, or off an A frame. If we are site testing, we might do a bollard test, winch test, or use waterbags - there are so many variations to what we do, and our engineering support strengthens our offering. We have an adaptable approach to all that we do, to test the new 1,600 tonne Multisec Monopile beam we had to extend the 3,000 tonne test bed to test 32 metres."

MULTISEC

Multisec produces a wide range of products including modular spreader beams, lifting frames and associated components. The standard beam range - available 'off the shelf' - ranges from the 13 tonne Multi13 to the 250 tonne Multi250. Each beam is made up of two end units and two drop links with interchangeable struts bolted in between to shorten or lengthen the beam. The Multi 250, for example, has a maximum load of 250 tonnes for a span of 16 metres reducing to 135 tonnes on a 22 metre span. All equipment is manufactured inhouse by its EN1090 accredited fabrication facility.

Multisec also designs and manufactures bespoke equipment. A recent example of this is the delivery of the 1,600 tonne capacity Monopile beam for an offshore wind project in Taiwan, its largest in terms of length and capacity. It was



Sydney Harbour Bridge



The Multisec 1,600 tonne capacity Monopile beam for an offshore wind project in Taiwan

designed and produced in less than two months. Weighing almost 30 tonnes, the beam has 32 metre lifting centres and comprises two metre end units with drop links and a combination of three eight metre, and one four metre struts.

HIRE

Heavy investment into Multisec spreader beams has enabled Durham Lifting to offer a large hire fleet from 10 to 800 tonnes available off the shelf, as well as Dyneema type slings, shackles and wire ropes to support the local growth in offshore wind, infrastructure, hydrogen and mining.

EXPANDING COVERAGE

Over the past five years the company has adopted a strategic approach to grow the areas of the business where its strengths lie. This includes creating the Multisec brand and appointing more distributors to reach international markets.

"Last October we announced a new strategic partnership for the Multisec spreader beam products with Mercia - a partnership which will see the two businesses collaborate on crane and supply projects, working closely together to develop product ranges and create a solid base for research and development," said Gardiner.

Durham Lifting has invested heavily into its testing capabilities meaning its facility can accommodate testing up to 3000 tonnes making it one of the largest test houses in Europe. This investment has seen not only the testing capacity grow but also the company's fabrication offerings allowing Durham Lifting and Multisec to fabricate higher capacity beams.



The Multisec spreader beam system

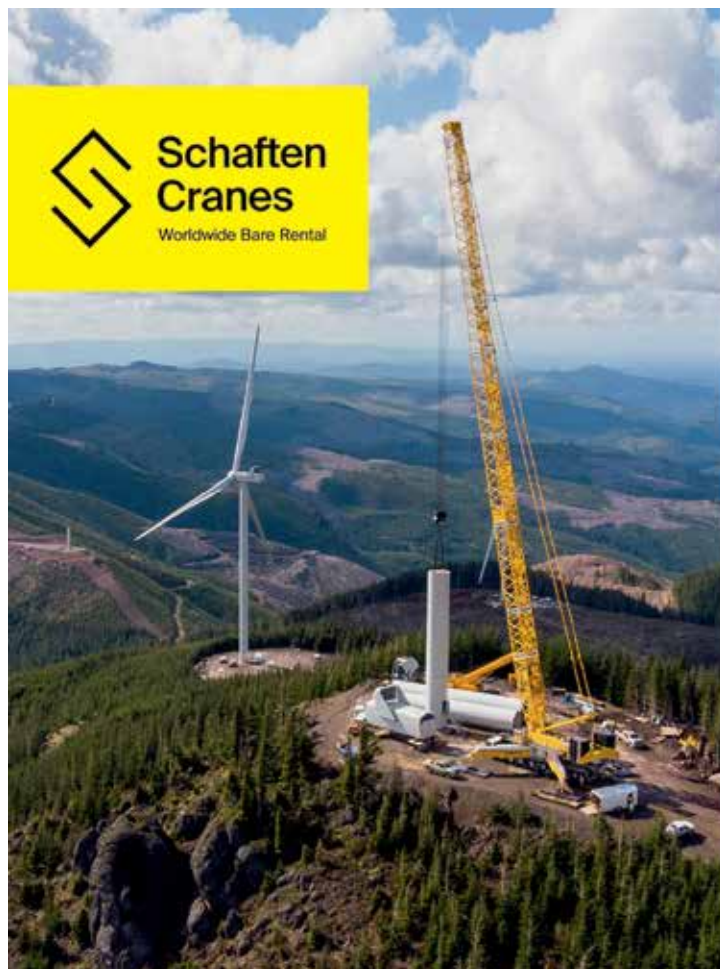
"We have recently completed our journey for F40R fit with ORE catapult and have recently been awarded this accreditation," she said, "which is a great achievement for the team."

THE FUTURE?

"We are a family run business that has developed and grown in many sectors. We have developed a brand and are proud of the quality service we provide to our clients, old and new. The aim is to grow what we have, continue to train and develop our team and grow overseas trade."

"Currently, we are engaged in works for the Dogger Bank wind farm project, focusing on innovative winching solutions for blade lifters. Additionally, we have embarked on exciting new projects from Norway including tests on equipment capable of handling up to 2,000 tonnes, designing lifting frames for subsea

applications, creating Multisec beams and refurbishing cranes that have been dormant for 30 years. We are witnessing growth across all departments, with our team demonstrating exceptional engineering skills and work ethic. I am immensely proud of their achievements and the progress we are making." ■



**Schaften
Cranes**

Worldwide Bare Rental

Pushing the limits together

Limits are easier to overcome when we join forces. Our combined expert knowledge is key. And when your challenges become our challenges and our solutions become your solutions, results are propelled to a whole other level. A level of excellence. We master your gravity challenges.

schaftencranes.com

LOCK GATE REFURBISHMENT

An extremely limited working area, with minimal space between the cranes and lock basin, made the installation of a 94 tonne barrier gate at the Gamsbheim Rhine lock near Strasbourg, France, a serious challenge for German crane rental company MSG Krandienst of Kehl.

Built in 1974 the Gamsbheim lock is the largest on France's inland waterways. Its two huge chambers are 270 metres long by 24 metres wide, holding around 70,000 cubic metres of water. Around 100 boats, including large barges and long pushed convoys, use the lock on the Upper Rhine every day to rise the 10 or so metres of elevation on the Rhine Canal.

After 50 years of use, the two 24 metre wide, eight metres high lock gates weighing about 85 tonnes need to be removed, refurbished and reinstalled one at a time. 10 months after it was removed, the first refurbished gate was ready to be reinstalled. MSG used two eight axle Liebherr cranes working in tandem, a 650 tonne LTM 1650-8.1 and 450 tonne LTM 1450-8.1.

The limited space meant that the two cranes had to be set up so close together that it was not possible to slew the lock gate between them due to the minimum radius of the LTM 1650-8.1. The gate was therefore first lifted by two smaller cranes, with the two large cranes then taking over. The LTM 1650-8.1 was rigged with 42 metres of luffing jib, initially working over the top of the 450 tonner slewing the load in a wide arc around the LTM 1450-8.1 and to a point above the installation position. When the gate was lowered and fixed into the chamber there was just 200mm clearance between the gate and the roof of the control tower.

The project will continue until 2026, with the second gate due to be removed once the basin has been fully overhauled and tested.



Panoramic 120.10

Don't settle for second best

TONNES	hp	m
LIFT CAPACITY	ENGINE	LIFT HEIGHT
12	170	9.8

This heavy duty model has been developed to offer greater lifting capacity while maintaining complete safety. The axles with epicyclic reducers are equipped with oil immersed brakes. The cab is on a higher position in order to ensure that the operator has better visibility. Visit merlo.co.uk to find out more.

MERLO



merlo.co.uk



BIGGER IS BETTER ON POWERHOUSE PARRAMATTA

The new 30,000 square metre Powerhouse Parramatta museum in Sydney is one of the largest and most significant structural engineering and architecturally complex projects under construction in Australia. The steel trusses are now being lifted into position with heavy lift tower cranes.

The arts & science building is the largest single investment in cultural infrastructure since the Sydney Opera House, and the first major cultural institution in western Sydney and is due to be completed by the end of the year. The largest museum in New South Wales it will feature more than 18,000 square metres of exhibition and public space, including Australia's largest column free exhibition space. Designed so that its exterior superstructure is an architectural feature, the museum's two buildings feature three types of steel lattice structures creating an exoskeleton.

Lendlease Construction is leading the work with Marr Contracting providing the heavy lift luffing tower cranes. The heavy trusses provide the structural support required to achieve the column free exhibition space below. However installing the trusses - each weighing up to 120 tonnes - created some serious challenges. Marr Contracting proposed a solution that used three of its Heavy Lift Luffing (HLL) tower cranes including a 330 tonne Favelle Favco M2480D - claimed to be the world's largest tower crane - along with a 150 tonne M1280D and 96 tonne M860D.

By designing larger heavier elements for the exoskeleton, including the steel trusses which were delivered outside of normal hours, the

number of lifts was substantially reduced along with disruption and congestion in and around the site. More than 70 percent of the exoskeleton has now been installed.

Marr's design & engineering manager Andrew Coffin said: "In working closely with Lendlease we managed to streamline the construction methodology and adopt a crane solution that reduced complexity and significantly improved efficiency. The key was understanding the desired approach to building the project and designing the crane solution around that idea."

Managing director Simon Marr added: "This is an incredibly exciting project to be part of. Its construction will be testimony to the impact that technology, innovation, design and engineering have on our world. It took vision, innovation and collaboration to design a crane solution for this amazing project. Lendlease also had the vision to see the benefits of our proposal. It's a great example of achieving a better solution by asking 'how do you want to build the project?' and designing the lifting solution around this, rather than being driven by the limitations of the crane."

The museum will be Parramatta's first 6 Star Green Star Building, and one of the first projects in Australia to use 100 percent renewable diesel (HVO100) in the equipment on site, including the cranes. ■



The project is using Favelle Favco Heavy Lift Luffing tower cranes



How the museum will look when finished



INNOVATIVE SOLUTION FOR SYMBOLIC RAILWAY BRIDGE

When it came to installing a new Oder railway bridge between Germany and Poland, Dutch international crane and heavy lift company Mammoet encountered some unusual challenges, forcing it to find an innovative solution which also reduced construction time and minimised disruption to the rail network.

The new rail crossing is part of the pan-European rail network and a central element of the Berlin-Kostrzyn-Gorzów railway modernisation programme. The crossing revives the once famous Berlin-Königsberg-Eydtkuhnen rail line, breathing new life to an important pre-Cold War trade corridor. The 266 metre long crossing replaces a derelict, pre-War single track bridge with a distinctive 130 metre network arch spanning the river Oder - Poland's second longest river. The steel structure, with its crown positioned above the demarcation line of the border, is a landmark that highlights the importance of the location between the two countries.

Most river bridge replacements are floated into place using a combination of Self Propelled Modular Transporters (SPMTs), launching plates and a pontoon. However, the shallow and changing water levels of the river made the pontoon method impractical, if not impossible. The size of the bridge was also a factor being 180 metres long and weighing 2,100 tonnes, ruling out a big crane solution. After due consideration Mammoet managed to avoid cranes and pontoons with a solution that was more flexible, safer and more efficient.

CONSTRUCTION TECHNIQUE

The new bridge is a network arch bridge with carbon hangers and will help to increase line capacity and shorten travel times by allowing a maximum permissible train speed of 120kph.

The bridge was assembled on the German side of the Oder and moved as a whole structure across the river to its final installation position. First the bridge was jacked up to two metres, allowing the SPMTs to be positioned underneath, it was then transported to the riverbank and positioned over the first of five temporary supports. The bridge was then launched using a combination of custom designed launching plates and strand jacks that pulled the structure horizontally until it reached the next temporary support. This process continued until the bridge reached the opposite side of the river.

The SPMTs supporting the rear of the bridge were then removed and skid shoes were installed to slide the bridge into its final position. At this point, the bridge was taken over by climbing jacks, which allowed the temporary supports to be removed and the bridge to be lowered down onto its final resting pillars.

The whole process required around 45 truckloads of specialist heavy equipment including 96 axle lines of SPMTs, 26 launching plates, 10 climbing jacks and two strand jacks.

PLATE SPINNING

One of the key considerations with any bridge launch is the risk of structure deformation during the launch process. To solve this, temporary supports with hydraulic cylinders were used at the quay edges and in the water, as well as modified launching plates. The plates were equipped with spherical bearings allowing them to be moved in any direction. During the launch the weight on each tower and cylinder was controlled to ensure a smooth and safe operation.

Jack van der Vloet, Mammoet's lead engineer said: "It is a big bridge and wind loads had to be considered. It has a large deflection, so the launching plates had to be modified. Typically, they swivel in two directions, however, in this case they had to swivel 360 degrees. This always gave us full control of the operation. This method of bridge installation using modified launching plates can be adapted for other bridge projects, where using a crane or pontoon is not possible or is inefficient." ■



NEW CORDLESS HYDRAULIC PUMP

Dutch heavy lift jacking and lifting gear manufacturer Enerpac has introduced a new SC-Series compact cordless battery powered hydraulic pump. Aimed at larger jobs in difficult to access and remote sites it can be used with the 'Enerpac Connect' app, to access job specific data and information.

Weighing just 9.2kg including oil and battery, the pump eliminates extension cables, noise and generators. With an operating pressure of up to 700 bar/10,000psi, the pump's 54volt, 4Ah lithium-ion battery powers a highly efficient AC brushless motor which provides sufficient runtime for a typical high cycle speed, high-pressure applications before needing to be recharged. The unit comes with two batteries allowing one to be recharged while the other is in use, much like a cordless drill.



*Enerpac
SC Pump*



*Enerpac SC-Series
operating a lifting wedge*

LIGHTER TRUNNION SPREADER BEAM

UK based modular spreader beam manufacturer Modulift has redesigned its line of Trunnion spreader beams, making them both lighter and less expensive.

The new Trunnion beam does not require shackles or drop links and is available in various sizes. Compatible with the existing range, the Trunnion End Unit is interchangeable with struts from the existing MOD 110 up to the MOD 600/1000 product lines.



*Trunnion EU
with tigger
points*



Trunnion SB



Kranlyft
Group

KLAAS ALUMINIUM CRANES FLEXIBLE FOR ANY CHALLENGE



K2300

Exceptional performance

Hook load (stand./opt.) – 4.5 /9.0 t

Hook height – 48.0 m

Total weight – ≥ 26 t

K350 E

High driving comfort

Capacity: 1,600 kg

Max. hook height: 31.0 m

Max. extension length: 32.8m

Machine weight: 3,500 kg



kranlyft.com | +44 117 982 6661 | info@kranlyft.co.uk

BATTERIES THAT
POWER
PRODUCTIVITY.



Maintenance-free Trojan AES Battery has a compelling **3-year warranty** and is guaranteed to **reduce equipment downtime** because it:



**PERFORMS IN
HARSH CONDITIONS**

Trojan AES performs well in bitter cold or blistering heat, operating effectively from -40°F to 160°F (-40°C to 71°C).



**DELIVERS
HARMLESS PS_{OC}**

Need a quick charge during shift change? Unlike other AGM batteries, Trojan AES is unharmed by partial charging.



**LASTS
LONGER**

Trojan AES delivers up to 3X greater life than typical AGM batteries. On the backend, that's a huge savings and less year-over-year maintenance.



Visit trojanbattery.info/ca to learn more about Trojan AES. Or use your mobile device's camera to conveniently scan the QR code.





PACKED WITH POWER

In its simplest form, a battery is a container that stores energy until it is needed. In this article we take a look at the latest developments from the traditional batteries to the growing market for large solar/hydrogen powered hybrid and full electric power packs capable of powering large construction sites.

Most of us have grown up with the small dry cell batteries that were or were 'not included' with children's toys, the built-in battery packs in mobile phones which always run low when you need them most, and starter batteries in cars that struggled on a cold winter's day. Those in the aerial lift rental business have been familiar with the lead acid wet batteries that power scissor lifts and booms, that in the early days struggled to complete a full days work, especially if it involved a bit of driving.

However, the growth of mobile phones and Electric Vehicles has led to massive developments in battery and electric drive technology changing the way we look batteries. On top of this most countries now acknowledge the urgent need to limit global warming, all of which is seeing a seismic shift in attitude of users and manufacturers towards electric power.

In spite of this the internal combustion engine will be with us for many years to come, increasingly using alternative fuels such as HVO diesel and hydrogen etc... This is particularly true given the current range and recharging times of mobile battery packs. The reality and science is that if you want more power, you need a bigger battery which causes issues with machine size and weight.

Having said all that technology advances are changing things rapidly. We already have all electric platforms, cranes and trucks, however as they become more widely used, the charging problem is passed on to already overstretched national electricity grids, which simply cannot cope.

One of the major trends at the moment is the growing use of large battery or hybrid power packs replacing diesel generators in major cities. These can be charged by off peak electric from the mains aided by solar panels, small wind turbines, or hybrid units with engine driven generators fuelled by HVO diesel or even hydrogen, a version of which has just been released and is available for rent or buy. (See below).

One example of an alternative to a diesel generator is the battery 'generator' - such as the AMPD Entertainer - which is an advanced, compact and connected battery energy storage system. The Entertainer uses more than 30,000 automotive grade battery cells designed into fire and explosion proof battery modules.

At the end of last year (C&A Vol 25 issue 6) we reported on the first phase of Sheffield's £300 million West Bar project in the UK, being managed by contractor Bowmer + Kirkland which is using

Sheffield's £300 million West Bar project in the UK is using three shipping container size AMPD battery packs to power the entire site



three shipping container size AMPD battery packs to power the entire site which included four hoists, 40 mastclimbers and two tower cranes. The site only needs a low amperage electricity feed from the grid to trickle charge the batteries overnight. This means that full mains power need not be installed on the site until after all the buildings have been completed. If the initial results are indicative of the savings, this method of powering job sites could prove to be one of the biggest game changers in construction in modern times.

CRANES AND ACCESS EQUIPMENT

When it comes to battery powered cranes and especially aerial work platforms - primarily small scissor lifts and industrial pick & carry cranes - they have been around for many years with the batteries powering a motor which drives the hydraulic pumps. The advent of lithium ion batteries, motor controls and AC drive wheel



ACCESS PLATFORM

DEEP CYCLE & STARTER BATTERIES



**MAINTENANCE
FREE BATTERIES**

REDUCTION IN DOWNTIME AND COSTS

**INCREASED CYCLIC
CAPACITY**

**REDUCING WHOLE LIFE
COST OF THE BATTERY**

FULL RANGE

**INCLUDING
DEEP CYCLE FLOODED
& AGM CARBON LEAD
TECHNOLOGY**

**MARKET LEADING
SPECIFICATIONS**

PREFERRED CHOICE FOR OEM MANUFACTURERS

For more information contact our
customer services team on: 0161 971 5000

FPS
an Alliance Automotive Group Company

The first battery powered production platform was the Hinowa Goldlift 14.70 spider lift in 2009



motors has led to vast improvements in 'battery' performance leading to the adoption of larger and larger battery powered machines. More recently all-electric - no hydraulics - machines using electric actuators in place of hydraulic cylinders eliminate pumps, hydraulic hoses and the risk of leaks.

LITHIUM ION CHANGED EVERYTHING

The drive to miniaturise everyday products such as the mobile phone and portable music players in the late 1980s and early 90s resulted in the biggest battery breakthrough yet - Lithium Ion. The power output for its size and weight was incredible and it first made an appearance in a small hand held Sony video camera in 1991. There were several attempts at using Lithium Ion batteries for the chassis of van mounted aerial platforms around 2007 or 2008, but it was not until 2009 that Lithium Ion batteries were used in the first production platform, the battery powered Hinowa Goldlift 14.70 spider lift. The machine was fitted with a 2,000W, 48V AC motor and Lithium Ion battery pack. At the time Lithium Ion batteries were very expensive compared to traditional lead acid or gel batteries, however the benefits included a 60 percent plus reduction in battery weight, three times the battery life and half the charging time, not to mention longer battery life and less maintenance. And despite a few issues very early on with batteries exploding, Lithium Ion is increasingly becoming the battery of choice 15 years on. Several manufacturers have produced calculations that show that, while maintenance free AGM or Lithium ion batteries are more expensive up front, they can actually prove to be a cost saver over time, given how long they last while eliminating most of the maintenance costs associated with wet batteries.

Commercial Fuel Solutions CEO Robin Futcher



HYDROGEN POWER GENERATOR

However, battery/engine development continues on many fronts including the use of hydrogen. Early February saw the first commercially available hydrogen internal combustion powered generator in the UK - the 45 kVA e-power E45 - made by Belgian generator specialists e-power, available for sale or hire from Southampton, UK based Commercial Fuel Solutions which specialises in the design, development and distribution of fuel storage and transfer systems.

The E45 is 'ground breaking' in that it is designed to operate on any grade of hydrogen. According to chief executive Robin Futcher: "Using a hydrogen combustion engine offers a cost effective, eco-friendly solution for power generation. With its lower capital expenditure, ability to withstand fuel impurities and lower fuel expenses, it is the clear choice for businesses committed to investing in the future of hydrogen energy and making substantial strides in reducing their carbon footprint."

In an effort to alleviate user concerns the company offers a comprehensive turnkey package, conducting thorough site safety risk assessments to ensure suitability, with risk assessments, zoning diagrams and compliance checks. Specially trained technicians manage the installation and commissioning of the generator while providing necessary training, permits and safe operation oversight. It can also supply the hydrogen required, with remote fuel consumption monitoring.

"The H2ICE generator utilises hydrogen combustion to produce dependable electrical power, and an emissions free alternative to fossil fuel generators," says Futcher. "This method not only ensures minimal emissions but also capitalises on the cost efficiencies of hydrogen. And unlike fuel cell based hydrogen the H2ICE generator is less vulnerable to impurities in the hydrogen supply."

THE MARKET IS TURNING

If you needed any confirmation of the change, the UK's Executive Hire Show saw a raft of exhibitors showing 'environmental' power packs/generators, most of which would not have been seen just a year or two ago.

One company showing off a new battery power system was American company Powr2. Formed in 2018 the company has three main products -



Numerous companies were showing environmental power packs/generators at the Executive Hire Show



the Probank Pro and XPro and the Probank Max. Despite being all battery powered, they can, depending on the required demand, be used with a diesel generator to create a hybrid power system.

In one application an environmentally conscious contractor in the USA used a Powr2 hybrid power system - an HES-30.60 Powerbank Energy Storage System - alongside an existing 56kW diesel generator. By installing the Powerbank, the client was able to monitor its energy usage via the Powr2 online energy management portal

Powr2 has three main battery products - the Probank Pro and XPro and the Probank





Canadian battery manufacturer Discover Battery has launched a new, free, Total Cost of Ownership calculator to determine the operational costs of a particular battery type over its lifetime

and saw the actual load pulled by the offices varied between 3kW and 6kW meaning the generator was grossly oversized for the job. Using load sensing technology, the Powerbank onboard Energy Control Module was able to automatically turn the generator off and run the office trailer on battery power for 20.7 hours out of the 24 hour period. This reduced refuelling from every two days to every seven days as well as reducing generator service intervals which went from every 10 days to every 60 days. Another benefit was the battery's stored energy allowed the maintenance on the generator to take place without the office losing power. By implementing the hybrid power system, the contractor reduced generator run time by 86 percent, emissions were reduced by 74 percent and fuel usage was reduced by 74 percent. The contractor also saved significantly on down time and maintenance costs.

EASY SAVINGS OF UP TO 40%

In addition, the mass market lead acid/AGM/Lithium batteries are also constantly improving. In previous C&A features we have highlighted the benefits of the various type of new batteries that are entering the market looking to replace the traditional flooded lead acid batteries.

But how much might a user save by switching to a different type of battery? Canadian battery manufacturer Discover Battery has launched a new, free, Total Cost of Ownership calculator allowing users to understand and determine the operational costs of a particular battery type over its lifetime.

The calculator helps buyers make an informed decision by inputting specific data such as battery specification/type, battery cost, labour expenses and battery service frequency to determine the total operational costs over its lifetime. By selecting the best battery for the application, savings of up to 40 percent are said to easily be possible.

The long term financial benefit, particularly for rental businesses - which may run hundreds or even thousands of battery powered machines - is huge. In a price sensitive and competitive market, being able to compare the Total Cost of Ownership for various battery types, rather than the initial purchase cost is essential for calculating the overall profitability of each item of equipment.

According to Discover Battery, there are

substantial cost savings when using Dry Cell AGM batteries, compared to traditional flooded lead acid batteries. Alexander Marotz said: "While the initial cost of Dry Cell AGM batteries is higher, their lifetime savings can range between 20 to 40 percent when compared to lead acid batteries. Every customer who has made the switch to AGM batteries will agree that the initial decision to change is difficult, however once they have used AGM batteries for any length of time, they love the benefits and do not want to go back to the old, flooded batteries."

"Regular lead acid batteries are often seen as the most affordable solution however many users overlook the costs of maintaining this type of battery correctly which adds significantly to the total costs over their lifespan. Many hidden expenses contribute to the total cost of ownership apart from the obvious benefits of not having to regularly top up the water," adds technical sales director Stefano Giuliani. "These include fewer equipment repairs caused by corrosion damage from acid spills, off gassing, and reduced machine downtime due to improper battery maintenance in the field."



Discover Dry Cell batteries

Using the Total Cost of Ownership calculator:

Example 1. A single electric scissor lift

Using the calculator to calculate the real life cost savings the following assumptions have been made:

- Using 4 x 6Volt 190Ah batteries
- Dry Cell AGM 20% higher initial cost than premium flooded batteries
- 3 years battery life expectancy

Data for a typical user is input into the calculator such as the initial purchase price and monthly maintenance schedule per scissor lift. The calculator then gives the relative cost of the AGM

battery compared to the flooded lead acid battery. In this example, the total lifetime cost of the AGM battery pack was 24 percent lower than a premium lead acid battery pack. And this calculation does not include the time spent on battery equalisation during charging, which would further impact the total ownership cost for flooded batteries.

Example 2: A fleet of 200 electric scissor lifts

Scaling up the above example for a fleet of 200 electric scissor lifts... For simplicity, unexpected call-outs due to watering or unforeseen repairs due to acid spills with flooded batteries are not included. However, the impact of these can be simulated in detail with the calculator. Based on this scenario, the lifespan cost savings for the fleet would exceed €63,000 over the three years of operation.

SAFETY AND RELIABILITY

UK based battery distributor Ecobat Battery raises the point that batteries used on aerial work platforms and similar equipment, need to be able to cope with current surges from drive and lift motors and cope with frequent deep discharges - in excess of 80 percent. It is also not uncommon for machines to be placed back in service before they are fully recharged, meaning they are often going out in a partial state of charge and are even more likely to go beyond the 80 percent discharge point, potentially reducing their lifespan.

As a result, choosing the correct replacement battery for a machine is more important than many realise. Ideally they need be able to accept 'opportunity charging', which can be a frequent occurrence on site, possibly of short duration, which also has ramifications for the charging system. An inappropriate system can, for example, fail to change its charge mode when the battery is fully charged and subsequently overcharge it, reducing its operational life.

Although Lithium batteries might at first appear to be the ideal solution when swapping out a battery pack, it is important that the equipment is fitted with a suitable battery charging and management system that can cope with the energy feedback when the motor is stopped. In addition, the battery pack is part of the machine's ballast and Lithium batteries are considerably lighter than traditional lead acid batteries, so its not a simple swap out.



According to Ecobat, choosing the correct replacement battery for a machine is more important than many realise

NEW TECHNOLOGY

UAE based Eternity Technologies has launched a new addition to its lead acid Quasar product line - the Carbon Nano Flooded Deep Cycle Bloc battery. The new battery features Carbon Nanotube Technology - CNT - which claims to enhance the fast charge capability of the negative plate. Forming a network of individual nanotubes, they facilitate electron flow with minimal resistance while reinforcing the plates. Carbon Nanotubes are said to be 10 times smaller in diameter than a human hair and contribute to faster and less resistive electron movement during both charge and discharge cycles.

According to Eternity, the technology delivers "numerous advantages including increased energy storage capacity, prolonged battery life, improved charge acceptance, increased cycle times and tolerance of partial state of charge operation."

The Quasar positive plate consists of 24 thin tubes - compared to 18 in conventional lead acid

tubular positive plates - which results in better high rate discharge performance and greater energy density which equates to increased power and longer running times and double the charging speed. The battery also uses phenolic resin separators, different to traditional battery separator materials, which help cope with heavy duty operating demands.

The new Quasar Flooded range will be available in 6, 8 and 12 Volt options for a wide range of applications including aerial work platforms and are suitable for extreme temperature variations. Eternity Technologies has operations in the United Arab Emirates, Germany, Spain, USA, Chile and South Africa and claims to be one of the fastest growing industrial battery companies. ■



The MHM Trime T-Zero Pro solar hybrid generator



A scissor lift battery tray



The new Quasar CNT Flooded range will be available in 6, 8 and 12 Volt options



An Eternity QSR200FT Gel Carbon Nano battery

ecobat
BATTERY

Any Battery. Anywhere.

Experts in batteries, chargers, inverters, solar and accessories.

Ecobat Battery, 36a Vanguard Way, Battlefield Enterprise Park, Shrewsbury, SY1 3TG, UK
+44 (0)1743 218500 | is.info@ecobat.com



VISIT US AT ECOBATBATTERY.COM





socageworld.com





TRIDENT
INTERNATIONAL PVT. LTD.

Comprehensive Tyre Solutions for
Boom Lifts | Rough Terrain Scissors | Telehandlers | Scissor Lifts

Ex Stock availability of Tyres, Wheels & Assemblies for all makes and models

- Ready to Fit Solid Tyres & Wheel Assemblies
 - Ready to Fit Foam Filled Assemblies
 - Non-marking Wheels for Scissor Lifts
- Consolidated Shipments
- Wheel Exchange Program



TRAXTER
MEWP Tyres by Trident

US Patent D813793

INDIA: Survey No. 70/A, Rashmi Industrial Estate, Wanawadi, Pune - 411 040 India Phone: +91 20 40092355, Email: salesteam@trident-intl.com | www.trident-intl.com



LITHIUM BATTERIES



DRY CELL BATTERIES



GEL CELL BATTERIES



Make the Step Up...

- Reduced Service Calls
- Increased Total Cost of Ownership
- Improved Return on Investment

WWW.BBLBATTERIES.CO.UK



Discover
Innovative Battery Solutions

0808 1680635



NEW PRODUCTS ABOUT AT ARA

The American Rental Association held its annual convention and ARA Show in New Orleans this year. The well attended exhibition was notable for the number of new products and announcements, at least when it came to aerial work platforms.

All the major manufacturers were in attendance with the exception of JLG/Hinowa and unusually Platform Basket. The standout new products this year included:

MEC had more new products on display than most, including the production version of its 10ft Nano10-XD all electric - no hydraulics - scissor lift, along with new 13 and 20ft Micro scissors and the first public display of the 32ft 3232SE and 45ft 4545AE, both of which can drive at full height.

All the new Micro scissors can drive through standard doorways without folding the guardrails. The Nano10-XD is unusual in that the two side chests are not interconnected as the scissor stack folds down into the chassis. Even the steer wheels are independently operated via electric actuators. The unit is available with the Xtra Deck ceiling tile extension which increases the working height by almost half a metre, taking it to 3.5 metres.

The new Micro 2032 is essentially a 19ft scissor with a 20ft platform height, providing an eight metre working height with 363kg platform capacity. Overall length is 1.88 metres or 1.73 metres with the ladder removed. AC electric drive is standard, while dual material trays are optional. The unit has an outdoor rating, but the working height is reduced to 6.6 metres. The 32ft 3232SE announced a few months ago is selling well, it seems the market was waiting for a unit of this size that can drive at full height.

On the boom front there were two new models - the production version of the 85-J as

shown at Conexpo last year as a prototype, but much has changed including the adoption of a telehandler type axle drivetrain. The unit uses electronics to work either as an articulated boom where the operator controls the riser and boom independently, or in telescope mode where the controller operates the riser in sequence with the boom elevation. Available now as a diesel, electric and hybrid versions will come later this year. The other new boom - the 40-AJ - is based on the company's 34ft telescopic 34-J, but with a riser converting it into an articulated model and adding 1.8 metres more working height as well as some up & over reach.

JCB used the show for the global launch of its first telescopic boom lift, the 65ft T65D, which was appropriate given that it will not be available, at least yet, in markets that require the latest engine emissions - beyond Tier 4 Final - ruling out the European market and some others. Outreach is 17.23 metres with 300kg while the 450kg maximum capacity is available at up to 14.5 metres. As with the company's other platforms, the new machine is built in India. The company also displayed its new 19ft electric drive S1932E scissor lift.

Haulotte made an interesting move using the ARA for the global launch of its new HA16E electric Rough Terrain articulated boom lift, the HA46E in the USA. It was displayed with the diesel Range Extender option. The company - which announced record results in North America - is making inroads into larger US rental companies and becoming a more significant player.



MEC 85-J



MEC Nano 10-XD



JCB T65D



Haulotte HA16E

Skyjack made a lot of noise with the debut of its new 13 and 19ft Micro scissors - the 13ft SJ3213 micro and 19ft SJ3219 micro - with front wheel electric motor drive and other Skyjack features. Manufactured in Canada they replace previous units made by Mantall in China. Look out for some new boom lift launches as we move into the summer.

Snorkel showed a 60ft compact articulating boom lift - the 600AJN - designed for exhibition installation applications with a novel pivot steer 'pigeon toe' function in addition to the usual four wheel steer modes. Three new scissor lifts include two new all electric - no hydraulics - scissor lifts with lithium batteries, the S3013 Mini and S23220 Mini with a 272kg platform capacity, overall length of 1.44 and 1.39 metres weighing 952kg and 1,111kg respectively. The third new model is the 19ft S3219 Plus - 1.83 metres long and weighing 953kg with hydraulic lift, but all electric chassis.

Teupen displayed its new 27 metre Leo 27AJplus spider lift, dubbed the Leo 82AJplus in North America. A key feature is its new jib with 160 degrees of articulation.

Almac/AlmaCrawler used the show for the US launch of its new tracked T-Crane, the 990kg capacity T-1060LTH.

Custom Equipment, now with the same owners as aerial lift manufacturer ELS and telehandler manufacturer MTS, launched several existing products from the two companies under a new brand name AXCS which will be used for all product lines from Turkey, and may eventually replace the Hy-Brid branding? As far as new products, there was the 16ft Hy-Brid ZT1630 which has been redesigned to take the company's LeakGuard system which involved increasing height of the chassis, but it can still pass through a door without lowering the guardrails.

Dinolift launched its 18 metre 180XTII in North America as the 52XTII. The product line has been distributed by RBG of Raymond, New Hampshire since 2018 and is now really taking off.

Local dealer UpEquip displayed the latest **Hoeflon C10** tracked crane, rigged with its long, three section luffing jib, alongside the **Easy Lift RA31** which his rebranded as the 101-48RJ.

For those looking for something completely different the **Equipter** stand was a 'must see' showing a very well finished prototype of what is essentially a trailer mounted telescopic forklift. Dubbed the Tow-A-Lift the unit travels behind a car or pick up and when unhooked becomes a three wheel self-propelled telehandler with a 2.4 metre lift height and maximum capacity of 1,587kg.

Genie had plenty to see, including the new TraX quad track system for its four model range of tracked boom lifts from 40 to 80ft. At first glance it looks much the same as its predecessor, however the system is entirely new, with 50 percent fewer parts while being easier to maintain. However, the main advantage is that it is now easy to convert any new lift from wheels to tracks or tracks back to wheels.



Skyjack SJ3213 Micro



Snorkel 600 AJN



Teupen 82AJplus



The Hy-Brid ZT1630



Easy Lift 101-48J



Dinolift stand



Genie stand

NEW

TOUGHLIFT®



SERIOUS ABOUT LIFTING MATERIALS

**The next generation of push
around material lifts and
accessories has arrived.**

ToughLift® is an innovative new manufacturer of high-quality material lifts, suitable for use indoors and outdoors. The range includes models with maximum lift heights from 3.49m to 7.94m with load capacities up to 454kg.

KEY FEATURES

- Low maintenance
- Anodised aluminium telescoping mast
- Hard-wearing aluminium mast pulley wheels
- Cable guard with main operational and safety decal
- Foot-operated straight-line lock on castors
- Hoisting and winching anchor
- Heavy-duty waterproof document holder
- Spirit level

ACCESSORIES



Load platform



Boom



Pipe Cradle



Extension Forks



Rough Terrain Kit

Call us on **01480 891 251** or email sales@accessplatforms.co.uk

Access Platform Sales Ltd - Leewood Business Park, Upton, Huntingdon, Cambridgeshire, PE28 5YQ

APS is the exclusive ToughLift® distributor for the UK & Ireland.



The company also showed a new decal and nomenclature regime that will reduce the number of decals it carries by at least 50 percent, while bringing a logical systematic system across the entire product range. The new decals also leave more space for rental company signage.

Chinese company **Goman** showed its new 28ft S08C self-levelling tracked scissor lift with a 10.5 metre working height. Several units have already been delivered in Canada. Italy's Almac made a point highlighting its patent infringement claim against Goman by distributing leaflets stating that it has a US patent.

Sinoboom showed a new all-electric - no hydraulics - 19ft scissor lift, the 1932ME All, one of two units at the show with exactly the same configuration as a regular 19ft scissor, but with electric actuators for steering and platform elevation. As with all these no hydraulic models these units carry a substantial premium over the regular models, ranging from 30 to 50%, or in one case considerably more. Also on show was the new 32ft AB320ERJN industrial boom lift with rotating jib.

Zoomlion was another company with a 19ft scissor lift converted to an all-electric, no hydraulics version - the ZS1930E. The company also displayed its 22ft ZS2242C tracked scissor lift. It also had its first 215ft ZT68J telescopic boom lift in the USA on hand nearby and took interested customers to the site.

LGMG launched the 20ft M2030SE self-propelled mast lift with rollout deck extension, offering a working height of eight metres and a platform capacity of 160kg. Overall weight is 1,150kg.

Manitou unveiled the North American version of the six metre/2,500kg MT625 compact

telehandler, dubbed the MTA519. The key differences are new US style joystick controller and a skid steer fork carriage, that allows it to work with a wide range of skid steer attachments. The company also plans to launch new boom lifts and says it is making good progress with its hydrogen power test programme, with 2026 likely for the full-blown launch.

Other items of note include:

The North American launch of the **EuropeLift** trailer lift range from Hungary, which was picked up by the Lawrenceville, Georgia based distributor National Equipment Wholesale in September. Both companies have been surprised at how well sales have gone in the first five months.

The arrival of Dutch telescopic crawler mounted boom lift manufacturer **Hyrax** which made its US debut and attracted a good deal of attention. The company has already had considerable success in Canada with Alberta based contractor and rental company Westco Construction, which helped man the ARA stand.

As already mentioned, Turkish aerial lift manufacturer **ELS** and telehandler company **MTS** made their North American debuts under the **AXCS** brand alongside sister company Customer Equipment/Hy-Brid.

Sales and rental company **LizzyLift** stand had a full range of **PB** mega scissors, including the 100ft/32 metre working height S320-14ES demonstration showing how these big, heavy duty scissor lifts are beginning to make an impact in the US.

Reachmaster with Ruthmann, Bluelift and AlmaCrawler. The company - part of the Versalift group - has seen a substantial rise in demand for its Ruthmann truck mounted lifts from several market sectors.



Goman self levelling scissor lift



Sinoboom 1932ME



Zoomlion ZS2242C



ELS booms, scissor lifts and MTS telehandlers branded as AXCS



LGMG M2030SE



Manitou compact telehandler



Reachmaster stand

PLATFORM GÜNLERİ 2024

Keep Rising!



THE COUNTDOWN STARTS FOR MEWP INDUSTRY'S SUMMIT IN TURKIYE!

Manufacturers, distributors, leasing companies, financial institutions, support product and service providers, and end users will come together at Autodrom Istanbul, Istanbul's prestigious venue for events.

**19-21
SEPT.
2024
ISTANBUL**

Owner



Event Organiser



International Official
Cooperation With



National and International Media Sponsors

forummakina **PLATFORMDERGI** **cranes access** **KRAN&BÜYÜME** **Vertikal**

Event Location



Mescit Mah. Demokrasi Cad. No:19
Tuzla / İSTANBUL

for more information

info@platformgunleri.org

www.platformgunleri.org

PLATFORM BASKET

VISIT US:



RELIABILITY, STRENGTH
AND HIGH TECHNOLOGY

RAISING THE STANDARDS

Platform Basket offers an unrivalled range of aerial working platforms, globally recognized for their versatility, ease of use and reliability.



PLATFORM BASKET

Via Montessori, 1 - 42028 Poviglio (RE) Italy
Ph. +39 0522 967666 - Fax +39 0522 967667
E-mail: info@platformbasket.com

platformbasket.com

MADE IN ITALY

Other exhibitors included:

Niftylift continues to expand in the US, as interest grows in its hybrid machines.

CMC made its first appearance since completing the acquisition of its US distributor All Access.

Magni has been extending its distribution coverage in the country and is now introducing its fixed frame models.

Crane companies **Shuttlelift/Grove** and **Broderson** showing carry deck cranes which found a greater interest among visitors than in previous years.

Other access companies included **Bravi, Imer Access, Leguan, Jekko, Noblilift, XCMG** - with a single scissor lift - and **Sany** with its 17 metre US style telehandler, as well as all the ancillary suppliers such as software supplier **Point of Rental, Trackunit, Trojan Battery, TVH** as well as material lift producers such as **Sumner** and **Liftsmart**.

IN SUMMARY

This was an excellent show in relation to visitor traffic, with most exhibitor stands busy all day. However, several companies stated that compared to last year orders were slow in coming. The show also lacked the 'buzz' of last year's event. A couple of exhibitors added that with the big national rental companies making almost daily acquisitions, the number of small independent buyers - the mainstay of the ARA Show in recent years - was shrinking. A couple of companies were even bold enough to say that in light of this and that next year's show is scheduled earlier in the month in Las Vegas on the tail of the World of Concrete, they would be skipping it. Hopefully this is not the beginning of a period of decline for what is always a great and highly important event in the aerial lift industry. ■



LizzyLift stand with PB scissors



Haulotte stand



Hyrax stand



Skyjack president Charlie Patterson with the SJ3213 micro



EuropeLift with CEO and owner Adrian Fekete



Magni stand



Niftylift stand



Equipter Tow-A-Lift



Jekko stand



GOUWEEUW

The power of perfection



www.gouweleeuw.com/en

No project too big or too heavy!

Gouweleeuw: The paint shop for vertical transport!

About Gouweleeuw

Specialized in painting:

- Mobile cranes
- Crawler cranes
- Tower cranes
- Excavators
- Aerial platforms
- Other heavy equipment

We work daily on assignments for leading manufacturers such as:

- Tadano
- Liebherr
- Sany
- Manitowoc
- Kobelco
- Spierings

But of course we also work for importers, dealers and end users (both new and used equipment) such as:

- Global Crane Services
- Allelys Installations Ltd.
- DM Cranes Ltd.
- G. O'Brien Crane Hire Ltd.
- Kavanagh Crane Hire Ltd.
- Osprey Marine Ltd.

Transport service

Have you bought a crane in Europe? First have the crane sprayed in your corporate colours at Gouweleeuw!



If desired, we can take care of the transport of the crane. We arrange international transport as well as transport from the port to Gouweleeuw and back.

Recent project



Phone number
+31 (0) 527 252 307
+31 (0) 6128 436 37



Email address
info@gouweleeuw.com



Visiting address
Ondernemersweg 14
8304 BH Emmeloord

The specialist advisory for buyers and sellers
of hire businesses

Had a good run... Time to cash in?



You've worked hard for years. There's been ups and downs but it's all gone well. You've built the business, taken some risks, looked after your team and your customers and your family. So well done.

But maybe you're thinking "what about me"? What about the future, financial security, more time with the family, travel, leisure and yes, less stress?

Maybe it's time to sell?

We can help. The Hire Exchange is the only specialist business sale advisory for the hire sector. We understand the market, we know the people and the right buyers for your business so we can optimise its value.

**If you want know more about selling your business call
Chris Harvey on 03303 230643, in strict confidence or visit
www.thehireexchange.co.uk or email:
info@thehireexchange.co.uk.**



The Hire Exchange

The specialist advisory for selling hire businesses

ILLAPG LOAD HANDLING SAFETY MESSAGING



The Industry Lifting Lead AP Group (ILLAPG), managed by CPA, has produced a presentation set of slides as part of its campaign on safe lifting, following several incidents. This was further reinforced following an industry-wide survey carried out by the group last Summer following a fatality at Gatwick.

The presentation outlines its new national approach with the title of 'Hands off - Step Away - Safe Space', produced by the ILLAPG working group it can be downloaded for free at: <https://www.cpa.uk.net/safety-and-technical-publications/illapg-publications>

The group has also produced a poster while other campaign material such as safety training videos will be available shortly.



LONDON BOROUGHS LOW EMISSION ZONES - GENERATORS UPDATE

As outlined in the last issue of *Cranes & Access*, a presentation was made at the last Tower Crane Interest Group Open Meeting by Luis Bassett, project coordinator, air quality projects for most London Boroughs, providing delegates with an update on the requirements for London's Low Emission Zones. The information below provides more in-depth details on the new changes and exemptions.

Although there are emission 'stages' for Non-Road Mobile Machinery Stages IIIB and IV, constant speed engines including generators went directly from Stage IIIA to Stage V. However, limited availability of Stage V generators led to Stage IIIA generators being granted exemptions, but this has now changed.

From the Jan 1st, all generators need to be Stage V compliant. Any Stage IIIA exemptions granted last year will be upheld, but any requests for a new exemption will be individually reviewed and only approved in exceptional circumstances. The applicant must have asked for a Stage V generator, from a supplier with a substantial Stage V fleet - that typically supplies over 50% of Stage V requests - and only if they confirm that one is not available will the exemption be considered. Additionally, the company applying for the exemption must prove that it has considered other technical solutions such as battery and Flybrid equipment.

Some of the approaches that sites have adopted so far have included:

- The use of battery and/or flywheel technology to make the loading compatible with a smaller Stage V generator.
- Battery technologies which can be trickle charged overnight and power the site and any cranes during the working day if there is a restricted grid supply.
- The same battery technology is charged by a Stage V generator within a few hours.
- Stage V generators which can be chained together, or supported by Stage IIIA backups, but only as a last resort.

If you have any questions, contact Luis at: luis.bassett@merton.gov.uk



Luis Bassett



APPRENTICESHIP DEVELOPMENTS

The Lifting Technician apprenticeship, launched in 2017 by Laing O'Rourke and the CPA, is being reviewed. It offers three options - crawler, tower, or mobile crane operation - and is run over a two year period.

Originally designed to fast-track apprentices into lift supervisor and planner roles, current feedback suggests that some struggle with the curriculum's depth and the difficulty of the end point assessments. Consequently, the focus is shifting towards producing skilled crane operators with less of an emphasis on the academic aspects of the current programme. Additionally, there is a push to include overhead/gantry cranes.

Meanwhile, a new apprenticeship entitled 'Planning and Managing Lifts Professional', led by BAE Systems, is in development. It aims for level 5 certification over three to four years, catering to those aspiring to be appointed persons in the construction lifting sector, with input from industry stakeholders including the CPA.

CRANE OPERATIONS ALONGSIDE RAILWAYS

The CPA is currently updating two documents - CPA1402 and CPA1801 - concerning crane operations alongside railways. This aligns with Network Rail's revision of its document CIV0063 on operations near railways.

The guides consolidate information and integrate various requirements, making them more accessible. A working group is collaborating with Network Rail to influence revisions for better alignment and reflection of lifting sector needs. Changes include clarifying notification requirements, terminology, and defining oversailing and collapse radius levels. These updates will coincide with the release of the revised CIV0063 in June, with all documents available for free download from the CPA website.





TELESCOPIC AND ARTICULATED SPIDER LIFTS FROM 13 TO 52 METRES

Spider lifts at a higher level for 40 years



falconlifts.com

IN STOCK NOW

INDOORS

BI-ENERGY

OUTDOORS

HINOWA®

LIGHTLIFT 18.80
PERFORMANCE IIIS

- WORKING HEIGHT: 18.55m
- WORKING OUTREACH: 7.8m
- POWER OPTIONS:
Diesel & Lithium Bi-energy
- TOWABLE ON 3.5T TRAILER

Call us on **01480 891 251** or email sales@accessplatforms.co.uk

Access Platform Sales Ltd - Leewood Business Park, Upton, Huntingdon, Cambridgeshire. PE28 5YQ



IPAF ELEVATION FOR GERMANY AND AUSTRIA

The inaugural two-day IPAF Elevation Deutschland und Österreich event was held on January 31st at the Motorworld venue in Munich.

In total 160 people attended the event over the two days, starting with a welcome address from Janina Hintermayer, the new regional manager for Germany and Austria, followed by chief executive Peter Douglas discussing IPAF's regional growth along with head of safety, Brian Parker. Kai Schliephake of Partner Lift - the association of independent regional rental companies - then spoke on the opportunities and pitfalls of the digital era, followed by Clemens Kube's on individual responsibility in safety protocols.

On day two, presentations included floor loading capacities by IPAF's Roger Schaffner, while IPAF auditor Katrin Blau provided updates on audit procedures and developments. Janina Hintermayer spoke about the new IPAF operator course, while Kathrin Stocker provided insights into the new TRBS 1116 guidelines. For a change of pace Ruthmann engineer Nico Krekeler spoke on the opportunities and challenges of electric power for truck mounted lifts and Frank Hotz



spoke of common misconceptions surrounding occupational health and safety. Reinhard Willenbrock looked back on two decades of developing IPAF's presence in the German speaking market with Romina Vanzi wrapping up with an overview of ongoing developments and initiatives.

Janina Hintermayer said: "We are thrilled by the turnout for the event and range of speakers. As I take over from Reinhard Willenbrock, I look forward to continuing driving innovation and growth in the region."

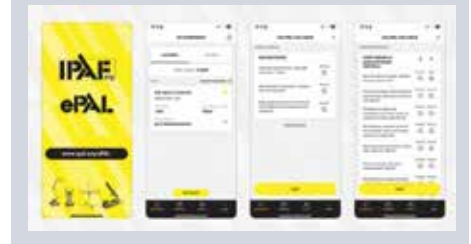
UPDATES TO EPAL APP

The ePAL app has been updated to introduce the ability to conduct, record and share pre-use checks for aerial work platforms.

Features of the ePAL app:

- Guided and non-guided pre checks: Digital versions for assessments in adherence to manufacturer guidelines.
- Exportable pre-use checks: Operators can export and maintain records of checks.
- Visual warning for failed checks: Alerts if a machine fails the pre-use check.
- Digital logbook: An overview of operating experience on various machines.
- Machine familiarisation record: Keep a record of machine familiarisation, enhancing operator proficiency. Share machine work logs using device sharing tools.
- Safety guides access: Operator and site safety guides are available.
- Digital training records: A digital wallet to store IPAF licences and qualifications, including the PAL Card.
- Reporting accidents and near misses: Quick and anonymous reports can be made.

Peter Douglas said: "We believe these enhancements will empower operators, ensuring they have the latest safety information available, while simplifying crucial processes in their daily operations."



Electroelsa - ELSA P46
Maber Hoist - Lift Shaft Hoist

Scissor lifts & vertical masts:

Almac - Bibi 1090 Primo
Dingli - JCPT1612PA
Faraone - Elevah 6
Platform Basket - Heron 10

Self-propelled booms and atrium lifts:

Dingli - BT44ERT
Niftylift - HR15 H2E
Palazzani - TTZJ 58
Platform Basket - Spider 54
Teupen - LE027GTplus

Vehicle/trailer mounted:

Palfinger - P 280 CK Edrive
Ruthmann - Steiger T 1000 HF
Socage - forSte 16A Speed
Versalift Denmark - V-200

IPAF/Access international lifetime achievement award:

Two awards were made:

Davide Palazzani of Italian spider lift manufacturer Palazzani

Ken McDougall formerly of Skyjack and Linamar

For more information about the awards and the IPAF Summit, along with associated events, visit the www.ipa-ia-summit.info website.

INTERNATIONAL AWARDS FOR POWERED ACCESS 2024

The shortlist for this year's International Awards for Powered Access (IAPAs) have been announced, with the winners revealed on 14th March in Copenhagen, Denmark, following the annual IPAF Summit and Annual General Meeting.

The shortlisted companies and winners in red are:

Access rental company of the year:

AFI-Uplift - UK
Dayim Equipment Rentals - Saudi Arabia
Kiloutou - France
Mills - Brazil

Contribution to safe working at height:

Electroelsa - Parachute device
Gravity Joe - Pneumatic balancer
Haulotte - Fastn
Sunbelt Rentals - Projects & initiatives

The sustainability award:

CTE - MP 20 Ev
Dingli - 'Future Factory'
Niftylift - Hydrogen-Electric (H2E)
Trackunit - Emissions Reporting

Digital development award:

Cramo - Equipment Pool
JCB - LiveLink
Kiloutou - YOUSE
Transgrua - QR/NFC equipment check

Equality diversity & inclusion:

Dayim Equipment Rental - Saudi Arabia



Dinolift - Finland
Mills - Brazil
Terex - International

IAPA innovative technology prize:

Dingli - BT44ERT
France Elevateur - Live line truck mount
Trackunit - Access Management System
Trojan Battery Company - AES batteries

IPAF member only categories:

IPAF training centre of the year:

HSS Training - UK
Mills - Brazil
Nationwide Platforms - UK
Speedy Support Services - UK


IPAF training instructor of the year:

Brian Sneddon - Nationwide Platforms
Jose Ramon Etxebarria Urrutia - Plataformas Daryat
Peter Hazell - AFI
Wagner Silva dos Santos de Andrade - Mills

Product of the year categories:

Mastclimbers/hoists:

Alimak - Vectio 650



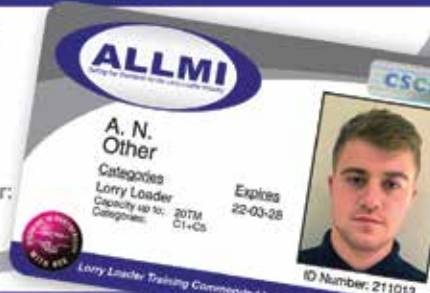

LORRY LOADER OPERATOR TRAINING
Approved by CSCS

Other courses approved by CSCS:

- Slinger / Signaller
- Crane Supervisor
- Appointed Person
- Thorough Examiner

Courses also available for:

- Instructors
- Managers

BUILD UK
Trade Association Member

The Trade Association for the Lorry Loader Industry
Tel: 0344 858 4334 • Email: enquiries@allmi.com
www.allmi.com

cranes & access

GET THE WHOLE STORY...



Follow us on



Vertikal.net

ALLMI *Setting the Standards for the Lorry Loader Industry*

ALLMI accredited Lorry Loader Operator Training Providers

Nationwide

PALFINGER UK

Contact: Sunny Patel
t: 01380 722381 m: 07483 039588
Email: sunny.patel@thwhite.co.uk
www.palfinger.co.uk
Devides, Bradford, Falkirk and Leicester

Nationwide



LorryLoader Training Ltd

24, Mayfair Drive, Crewe, Cheshire, CW15BB
Tel: 01270 505 824 Mob: 07970061171
Web: www.lorryloader.co.uk

Nationwide

ATLAS CRANES UK LTD

Wharfedale Road, Euro Way Ind. Est. Bradford. BD4 6SL
Tel: 08444 996688
Neale Martin: 07836 238281
Web: www.atlas-cranes.co.uk

Nationwide



Hiab Ltd

Cargotec Industrial Park, Ellesmere, Shropshire, SY12 9JW
Tel: 07792 831869
e-mail: wayne.ctsl@gmail.com • Web: www.hiab.com

Are your Lorry Loader Operators properly trained? Call an accredited ALLMI training provider and insist on the ALLMI card.

The training accreditation service for the lorry loader industry
ALLMI, Unit 7b, Cavalier Court, Bumpers Farm, Chippenham, Wiltshire. SN14 6LH.
tel: 0344 858 4334 email: enquiries@allmi.com web: www.allmi.com

NEW CHAIRMAN

Alastair Evans, product technical and engineering manager at Hiab UK, has been appointed as ALLMI's new chairman. With over 35 years' experience in the lorry loader industry, Evans is a long-standing member of the association's Technical Committee and the board of directors. He also plays a role in representing the UK on European Standards Committee, TC 147/WG 18.

Evans said: "It is a privilege to serve as ALLMI chairman. On behalf of ALLMI, we look forward to making further progress on important industry issues and ensuring that good practice remains at the forefront of the lorry loader sector."

Evans' appointment follows Alan Johnson stepping down as chairman, after having retired as managing director of Palfinger UK. Johnson has been involved with ALLMI for 30 years, including two terms as chairman and seven years as technical director, whilst also being a member of the ALLMI board since its inception in 2005. He will continue to work with ALLMI on a consultancy basis.

Alastair Evans



Alan Johnson



RHA PARTNERSHIP

ALLMI has agreed a mutual exchange of membership with the Road Haulage Association (RHA).

ALLMI's Tom Wakefield said: "Working collaboratively with related industry associations is an important part of ALLMI's activities. We have enjoyed an excellent relationship with the RHA for some time, and formalising this affiliation was a natural step."

RHA membership director, Phil Snowden added: "The RHA is renowned for supporting businesses and individuals in the road transport industry, as well as promoting and facilitating improvements in safety and the raising of standards. These are objectives that we share with ALLMI. We look forward to strengthening our ties for the good of our respective memberships."



ELECTION TIME

Alastair Evans' appointment as chairman was part of a wider election process for positions on both the ALLMI board and Operators' Forum executive committee. For the board, the majority of incumbent directors retained their positions - the only new addition was Andy Woodward, aftersales director of Palfinger UK.

Woodward said: "Over the last 21 years I have carried out a range of industry roles, primarily in relation to aftersales, but exposing me to the many operational facets of the lorry loader business. Therefore, I feel I am well equipped to serve on the ALLMI board, and I look forward to contributing to the important part it plays in raising standards."

On the Operators' Forum, Steve Frazer-Brown of David Watson Transport was re-appointed as Forum chairman, thereby securing his place as the fleet owner representative on the ALLMI board, while the remainder of the executive committee retain their places.

ALLMI chief executive, Tom Wakefield said: "The election process is fundamental to the democratic manner in which ALLMI operates. The board and executive committee are elected on a biennial basis and this practice provides members with the opportunity to appoint people who they feel will best represent their interests, as well as those of the wider industry."



ELECTION RESULTS - ALLMI BOARD:

Name	Member company
Alastair Evans (chairman)	Hiab
Andy Woodward	Palfinger UK
Ben James	Avon Crane & Commercial Repairs
Ian Roberts	Massey Truck Engineering
Richard Short	Penny Hydraulics
Steve Frazer-Brown	David Watson Transport

ELECTION RESULTS - OPERATORS' FORUM EXECUTIVE COMMITTEE:

Name	Member company
Steve Frazer-Brown (chairman)	David Watson Transport
Andrew Packham	Sussex Transport
Martin Woodbine	Stark Building Materials UK
Nick Sesevic	Algeco
Paul Bishop	Axle Haulage
Stewart Smith	D Smith Express

MARKET STATISTICS - REMOTE DEMAND

ALLMI has released its loader crane industry sales figures for the second half of 2023, completing market statistics for the year. One of the most noticeable developments was another increase in demand for remotes, with 76% of invoiced sales relating to lorry loaders with control units of this type, compared to 61% in 2022.

ALLMI technical manager, Keith Silvester said: "We continue to see this positive trend in the demand for remote controls, which reflects the significant benefits they bring to lorry loader operation. However, it is important to remember that they can create potential hazards if used incorrectly and so those responsible for loader crane operations are encouraged to adopt ALLMI's freely available 'Safe Use of Remote Controls' campaign material. This includes a web-based video, a toolbox talk, and an information leaflet aimed at operators and their immediate supervisors."

For copies of the material, please visit www.allmi.com/safe-use-of-remote-controls.



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

IN THE NEXT ISSUE OF

C&A

Place your products in front of 20,000 crane, telehandler and access platform buyers & users who will be reading the May issue of **Cranes & Access...**



THIS ISSUE WILL INCLUDE FEATURES ON:

CRAWLER CRANES

The Crawler crane market is increasingly diverse both in terms of capacity and the number of manufacturers around the world. We take a look at the latest new products as well as some interesting projects.



VAN AND SMALL TRUCK MOUNTED PLATFORMS

With improved battery powered chassis, the van and small truck mounted platforms have continued to go down the all-electric path and hybrids. If you have any news or views, we would love to hear from you.



SOURCE GUIDE

This year's C&A Source Guide lists all the crane, aerial lift and telehandler manufacturers that are active in the international market, detailing the specific model types they offer. Make sure your company is not missed - check last year's issue.



TRANSPORT TRAILERS

Transporting equipment to and from its point of use safely and efficiently is a major cost and safety factor for rental companies and fleet owners. Trailers are increasingly being designed for specific applications. We will review the sector so let us know if you have any interesting new products or news.



INTERMAT SHOW REVIEW

Once one of the three major international shows - along with Bauma and Conexpo - Intermat in Paris, France is now becoming a more regional exhibition. However there will still plenty to see and hopefully new products will be launched.

Send any information, news, photographs or ideas on these subjects to editor@vertikal.net

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

Ask us about our **Special Advertising Packages** advertising@vertikal.net or call us on UK +44(0)8448 155900 or mobile +44(0)7989 970862

AN EXPENSIVE WAY UP

UK company European Active Projects (EAP) has been fined £100,00 and ordered to pay £5,730 in costs after employees were spotted using a forklift and pallet in order to work at height and remove equipment - including gas bottles - from the deck of a boat at Ramsgate Harbour in south east England in July 2022. The HSE found EAP had failed to plan the work at height leaving employees at risk, with no safe method for removing equipment from the vessels deck. This is EAP's second fine after an employee was spotted at Chatham Docks in 2015 walking on stacked containers.

HSE inspector, Samuel Brown said: "This incident demonstrates why there is a need to plan and supervise work at height. Clearly, lessons had not been learnt since the company's previous prosecution in 2015."



£900,000 FOR FATAL SCISSOR CRUSH

UK rental company Nationwide Platforms was fined £900,000 plus £12,405 in costs after employee, delivery driver Lee Benham, 45, was crushed while moving a scissor lift at its Liskeard branch in Cornwall, in November 2021. Benham and two other drivers arrived at the depot at 6am to load their trucks for the morning deliveries.

Benham went into the workshop to collect a 40ft slab electric scissor but had to move another scissor lift out of the way. The upper controller was clipped onto the toeboard, thus the controls were consequently reversed, so instead of it moving away from him, the lift came towards him, crushing him against the other scissor lift.

The HSE found Nationwide failed to consider the dangers of operating machinery with moveable controls, and failed to provide appropriate supervision when drivers were loading equipment, even though they had had all been trained and protocols were in place highlighting the risks of operating from the ground, while detailing the safest methods. The fact that there was no CCTV monitoring within the workshop was a factor taken into consideration. Nationwide is keen to share its experience with others in order to highlight this issue.

FATAL FORKLIFT FALL COSTS £325K

UK farming company M.A. Forshaw has been fined £320,000 after an employee fell from a forklift at a farm in Burscough, West Lancashire in January 2020. The man, Frank Schlachter, 64, was standing on a skip helping others tip food waste into the skip. The food waste container slipped off the forklift's tines, causing him to fall to the ground and sustain fatal head injuries. The fact that the container was faulty and could not be securely attached to the forks came out in the subsequent investigation.



The HSE found that M.A. Forshaw had not fully assessed the risks involved in the daily task and failed to maintain equipment in safe working order or properly instruct staff in safe working practices. The company was fined £320,000 plus costs of £4,574.

THREE NEW IPAF TRAINING AUDITORS

IPAF has appointed three new training auditors, Stuart Witts will cover Ireland while Oliver Sven Dahms will cover Germany and the Nordic countries and Marcel van der Vliet of 'Safety 1st Netherlands' will be responsible for the Benelux region.



ENERMECH EXPANDS TRAINING COURSES

EnerMech's training centre in Aberdeen, Scotland, has achieved two additional OPITO (Offshore Petroleum Industry Training Organisation) accreditations, covering courses on lift planning, lift operations and lifting equipment regulation, supporting its expansion in the nuclear and clean energy sector.



CPL INTERNSHIP AT SILVERSTONE



UK sales and installation company CPL has launched an internship programme for students from Silverstone University Technical College in Northamptonshire. The students - aged between 14 and 19 - will undertake practical, hands on projects in design, development and the maintenance of aerial work platforms working alongside experienced staff. The programme will take them through new product development and enhancing existing products, while looking at emerging technologies.

Managing director Paul Murphy said: "This internship programme is designed to be a dynamic learning experience, offering students the opportunity to enhance their skills and get a real understanding of working within an engineering business."



WHO TRAINED THEM THEN?



Received from the USA, three men working on roof level lighting, using a Rough Terrain forklift as access equipment - but it is just not quite high enough.

GOING UP IN THE WORLD

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

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

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

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

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

- Continental Europe €23 plus €6.50 postage & packing
- Rest of world \$31 plus \$10 shipping



Ordering Information

Forename: _____ Surname: _____

Address: _____

Post Code: _____

Email: _____ Telephone: _____

Please make all cheques payable to 'The Vertical Press Ltd'

I enclose a cheque for £24 (E19.50 + £4.50 p&p)

I enclose a cheque for €29.50 (€23 + €6.50 p&p)

I enclose a cheque for \$41 (\$31 + \$10 p&p)

Please invoice me: _____

Please debit my card:

Card No: _____ Issue No: _____

Issue Date: _____ Expiry Date: _____ 3 Digit Security Code: _____

Signature: _____ Date: _____

Please send completed order form to: The Vertical Press, Box 6998 Brackley, NN15 5WY, UK. Alternatively, fax it through on +44(0)1295 768225 or scan & email info@vertikal.net

**SUBSCRIBE TO THE
C&A NEWS PACKAGE
AND GET THE
INDUSTRY'S MOST
WIDELY READ NEWS**

Vertikal
net



To get your **SUBSCRIPTION** up and running register online at www.vertikal.net/en/subscriptions

EVERY ISSUE

Delivered to your door

PLUS

DIGITAL ISSUE

Online

YEARLY SUBSCRIPTION

£40.00/€60.00

(UK and Ireland)

€75.00 (Rest of Europe)

\$110.00/£60.00 (Other regions)

Payable by BACS transfer/
credit card/cheque

**AN INDEPENDENT NEWS SERVICE COSTS MONEY AND
NEEDS YOUR SUPPORT SUBSCRIBE TODAY!**



Nice branded box



On the road



Heavy hook block rigged



Autovictor container

AUTOVICTOR LTM 1750-9.1

Scale models have often been used by equipment manufacturers as a branding and marketing tool, and rental companies such as Mammoet and Sarens also have significant merchandising operations. Autovictor is an Italian heavy lifting and transport specialist running a fleet of 300 vehicles.

The Italian scale model dealer and retailer ModelMarris has launched a scale model of the 750 tonne Liebherr LTM 1750-9.1 All Terrain crane as the first of a range of new models in Autovictor colours. Also announced is a branded shipping container.

The model comes in an Autovictor branded box with an impressive photo of the real crane, an excellent instruction manual is also included with a parts list.

The model is very detailed. This includes the chassis which has working steering and suspension and Michelin branding moulded into the sidewalls of the tyres. The carrier cab has a realistic number plate, and a fleet number on the doors. Behind the cab the engine area has tanks, and the mesh grille is excellent.

The outrigger beams are removeable to reduce axle loads. Large yellow metal spreader plates with useable lifting points are also included with the model.

The high level of detail continues with the superstructure cab which tilts and rotates from the transport position and includes tiny warning decals. The superstructure is equipped with metal handrails and ladders, and the Autovictor decoration is applied very well. The power pack has useable lifting jacks to enable the counterweight to be connected and disconnected from the superstructure. The counterweight blocks are separate and include weight decals.

The boom sections have realistically thin side walls and, with the Autovictor livery, it gives a convincing overall appearance. The TY Guying system for the telescopic boom is of a heavy construction and looks and performs well. Two metal hooks are supplied and they are of an excellent quality with metal sheaves and working safety latches. Another nice touch is that a lifting beam is also included.

The shipping container also looks great in Autovictor colours. It is metal with very detailed graphics and paint highlighting the locks.

These are great looking models in Autovictor colours, and they will match up well with support trucks promised for the future. Both models are available from the ModelMarris webshop www.modelmarris.com. The LTM 1750 costs €579 and the shipping container is €40.



Ready to lift

CRANES ETC MODEL RATING

Packaging (max 10)	8
Detail (max 30)	28
Features (max 20)	19
Quality (max 25)	23
Price (max 15)	13
Overall (max 100)	91%

To see the full review, including a full unpacking and set up video, visit www.cranesetc.co.uk



Vertikal
days

JOIN US FOR THE UK & IRELAND'S LIFTING EQUIPMENT & WORK AT HEIGHT EVENT

For 2024, we are heading to our new venue, Newark Showground in Nottinghamshire where professionals from the industry will see the very latest that the Crane, Aerial work platform and Telehandler market has to offer.

If you want to get your products in front of the key buyers, end users and purchasing influencers, it's the place to be.



FACE TO FACE
WITH INDUSTRY
PROFESSIONALS



DEMONSTRATE
THE LATEST
PRODUCTS



FOLLOW
THE LATEST
TECHNOLOGY



CATCH UP OVER
A COFFEE IN THE
MARKETPLACE



HOLD A LUNCH
MEETING AT
THE CATERING
PAVILION

READERS LETTERS

MAKING DAY TO DAY CRANE HIRE IMPOSSIBLE

The following letter was sent by a major crane rental company in the English Midlands, to several UK Members of Parliament, the CPA and several Police Forces. It raised a good few comments on line, and highlights several discrepancies between the stated rules, how they are applied, and their legality. It is an area that most certainly requires action and follow up by the English crane rental industry and its associations.

07/03/2024

Dear All,

We are writing to you to inform you of the struggles we are facing and ask for assistance in finding a resolution.

At the current time, the enforcement of the abnormal load embargo, particularly in the Mercia area is affecting our ability to maintain crane hire services for our clients.

Mobile crane hire has always been a daily and on-demand service, whereby we may be on a site for a single day or a few days. This requires mobile cranes to be driven from our depot to the location of hire each day and returned each day or after completion of the hire. We offer 24-hour, 7-day service and work to meet our clients and environmental demands.

We operate in many sectors, including, but not limited to:

- Construction (house builders, schools, hospitals, infrastructure, roadways, HS2) - all of which have targets and units to produce, emergencies to cover, and time restraints - most of which are behind current legislative needs, including the housing sector not achieving the supply demanded and legislated.
- Maintenance and manufacture (building and service, engineers, quarries, factories - all of which operate shift work, shutdowns, and emergency requirements).
- Emergency services (police, fire service, recovery).
- MOD, HSE, and airports are all in need of an on-demand service.

While we always try to plan and accommodate all eventualities, as we have multiples of the same type of vehicle, we cannot give specific registration numbers for vehicles due to a number of factors, including crane breakdowns, changes in availability, driver safety inductions for site and machinery, environmental and weather conditions, etc. Our industry by its very nature is extremely interchangeable, with cranes not being able to safely operate in high winds or on unsuitable ground due to flooding, etc., and with the current weather conditions and ever-changing climate, this is not expected to improve. We need to have flexibility to be able to maintain supply during these industry conditions.

The current embargo being enforced with us of not being able to travel cranes between 7am - 9.30am and 4pm - 6.30pm means several issues:

- Driver hours have increased, with drivers leaving the depot earlier and having to park up to wait to return later.
- The increased driver hours will have an effect on all those end users, effectively pushing up prices to an unmanageable level. It is likely house builders will be the worst affected due to the level of crane supply, and the increase in price will push up housing prices for both councils and private sector sales. It may also decrease the unit levels being achieved, which is in direct opposition to the supply and demand levels required by the government.
- The additional work and driving hours for the drivers will have a direct safety implication, and the risk assessment and factor for this based on the minimal gain the embargo will have on vehicle numbers for mobile cranes may not be suitable and sufficient and in fact increase risk on other levels to an unsuitable point.
- The work-life balance for drivers is being affected, with additional working hours for seemingly no reason, resulting in them being away from family longer and reduced rest time as mobile cranes are not tachometer regulated as they are classified as special types.

Abnormal Load EMBARGO

- The mental, occupational, and physical health of both drivers and back-room staff is being affected at unsuitable levels. This is due to the sheer worry, complicated routing and notification procedures, the nature of the crane hire industry, the constant change, and the additional working hours being inflicted to maintain employment.
- The financial restraints placed on crane hire companies are also being affected, as the industry has recently, like all, navigated through Covid. The industry has also been subject to the reverse VAT changes and the new fuel levy changes. Clients have been reluctant to accept these price increases, and as such, further increases will certainly result in a loss of work and cash flow. This may result in the company losing its solvency.
- Several sites we operate on have environmental restrictions, meaning we cannot attend a site prior to 7am or leave after a certain hour to avoid disturbing residents and individual site safety restrictions. Some also have restrictions where we must leave the area for a certain time, including near airports, etc.
- As employers, we have a moral and legal duty to maintain and monitor the occupational health of our employees. We feel the embargo is blocking our ability to maintain this. Several areas of the country have adopted a dispensation for mobile cranes in so far as the embargo and notifications apply to mobile cranes of 5 axles and above. We are seeking a dispensation as we feel that although mobile cranes are classed as abnormal loads, they are special types and, as such, operate in much the same way as standard HGVs which are not subject to the embargo.

Mobile cranes do not generally require escort vehicles and do not normally take up additional lanes, and as such, they move like all other vehicles at these times. We do not feel enough due diligence in the sector has been carried out before this strict enforcement was undertaken. A lack of understanding of the industry and the vehicle types means they are being treated the same as large abnormal loads rather than standard HGVs. If the current embargo continues and is enforced in the current strict way, with vehicles being impounded, they will no longer be able to operate. This will inevitably result in around 70 redundancies for our company alone.

Kind Regards

The letter was signed by two individuals who preferred not to be mentioned in the media, although given the circulation of the letter it is no real secret. It seems that most of those contacting us since posting would prefer not to draw attention to themselves or their company fearing possible reprisals.



THANK YOU

Dear All

Thank you to all Plant Hire Alliance members that contributed to the 'Let's Give Ukrainian Children Another Christmas This Year'. It was another mammoth effort by everyone involved.

I'm pleased to report that our collective efforts resulted in the dispatch of 15,000 gifts (7,200 had to be wrapped by 100 volunteers), 14 tonnes of flour, 4 tonnes of feminine hygiene products, 1 tonne of pet food, blankets and clothes. The trucks left the UK on Thursday 14th December and by Monday 18th they had arrived near Presov in East Slovakia where they were greeted by 10 Ukrainian trucks and 12 volunteers who spent the day unloading them.

One batch of gifts was sent to Transcarpathia to an orphanage for children whose parents have been lost because of the war. The remaining gifts went to Kharkiv, Kherson, Zaporizhzhia and Donetsk, all of which are heavily impacted by the war.

Once again, thank you to everyone for helping to make this campaign a success.

Regards

Jeremy Fish

**ROBERT (BOB) BRADSHAW 1954 - 2024**

At the start of February, we received the sad news that Bob Bradshaw, formerly Genie regional vice president for the Western Region died in late January. He passed away at his home near Jacksonville, Florida, on January 21st having retired from Genie in 2019, after 22 years with the company, he was 70.

Bob Bradshaw spent more than 30 years in the equipment business, based for most of the time in California. He started out with Caterpillar dealers, initially Shepherd Machinery in Southern California and Hawthorne Bros. Equipment near San Diego. He was also with Morgan Equipment in Northern California, and then sales manager for aerial lift sales and rental company Adco Equipment - his introduction to the powered access industry. In 1997, after five years in the role he made his final career move to Genie, which he always said was his favourite job, becoming a regional vice president in 2008.

He loved to play the guitar at Genie events and apparently even wrote and performed a company song.

A message posted by some of his Genie colleagues said:

"With heavy hearts, we mourn the loss of Bob Bradshaw, a beloved member of the Genie team and rental industry. After 22 years of dedicated service at Genie, Bob retired to spend more time with his loved ones. His dedication, passion, and unwavering commitment to his work set a shining example for all of us and his impact will be remembered for many years to come. We will forever cherish the energy and kind-hearted team spirit he brought into his work every day. Our thoughts and condolences are with his family and loved ones during this difficult time."

Another friend and competitor Mark Thurston added: "Bob Bradshaw was always a pleasant face to see. I crossed paths with him from time to time calling on customers when he was at Genie, and I was at Grove and then Snorkel. I always enjoyed visiting with Bob and did not consider him a competitor, rather, an industry associate I always respected and was happy to see. So sad to hear of his passing. My thoughts and prayers are with his family during their time of trial. Peace be with you."

Ex Terex chief executive Ron Defeo said: "We were all better off for knowing Bob Bradshaw. He helped make us all a little better. I am sorry I did not know Bob even better, but he represented what was great about the Genie company. The customer was at the heart of everything we did. Time flies and we must slow down to remember the difference makers!"

He leaves behind Carol, his beloved wife of 28 years, children including Ben - who followed him into the equipment business and is now senior vice president of sales at H&E Equipment Services - Jason, Shannon, Andy, Kevin and 15 grandchildren.

Ben Bradshaw said: "I was fortunate enough to work in the same business as my father from 2002 to 2019 when he retired. He was a second generation in the equipment business. His father, also named Bob, worked for Shepherd Machinery from 1952 through 1994, as the used equipment sales manager."

"My dad was a great man who treated everyone with genuine respect and friendship. He loved the equipment industry from his early days with Shepherd Machinery. I admire him for many things and appreciate his guidance throughout the years. He never made it easy and ensured we worked for everything we had. I'm going to miss talking to you every day about everything. You are my hero, my mentor and my best friend."



Bob Bradshaw



Matt Fearon - Genie president at the time - with Bob Bradshaw and a new guitar for his retirement



Among friends as well as colleagues

DANIEL NORMAN WOLFF 1946 - 2024

We have received the sad news that Dan Wolff a former engineer at US boom truck manufacturer National Crane has died.

He passed away on peacefully in Lincoln, Nebraska on Monday, January 15th at the age of 77. He was born in Tecumseh, Nebraska and grew up on the family farm south of Sterling and studied mechanical engineering at the University of Nebraska in Lincoln. He started his career with 3M, moving to National Crane in 1971 as a mechanical engineer based in Waverly, Nebraska.

Wolff retired in 2011 having moved up through the company to become vice president of engineering. During his tenure, he led the development of many breakthrough crane models as well as product safety and reliability advancements. He oversaw the transfer of National Crane engineering to Shady Grove, Pennsylvania, and mentored numerous engineers along the way.

Dan Wolff was very active in the American Society of Mechanical Engineers (ASME) B30 Crane Safety Codes and Standards beginning from 1976, becoming chairman for the development of the B30.22 articulating cranes. He was also a member of the B30.5 Mobile Cranes, B30.23 personnel handling subcommittees, and B30 main committees. He stepped down in 2018 becoming an honorary ASME member and was recognised for his contributions to the enhancement of public safety through the development and promotion of ASME safety codes and standards.

He married Kathy TeKolste in 1969, the couple only recently celebrated their 54th wedding anniversary. He is survived by wife, Kathy, daughter Danielle and son Mark.

He is survived by wife, Kathy, daughter Danielle and son Mark.



RICHARD (DICK) BARNHART 1934 - 2024

We have received the sad news that Richard Barnhart, the founder of Memphis based Barnhart Crane and Rigging Co, has died. He passed away at his home in Millington, Tennessee on the 21st of January at the age 90.

Barnhart started out in the US Navy with the Seabees - United States Naval Construction Battalion - the Seabee coming from 'CB' for Construction Battalion. He served a total of four years and obtained a BSc in Civil Engineering from University of Massachusetts Amherst (UMASS). He then went to work with the contractor and civil engineering firm Chicago Bridge & Iron.

In 1967 the company sent him to Memphis as part of the team building a plant on President's Island. On completing the project in 1969, he decided to stay on and teamed up with Jimmy Oldham to set up a local contracting company. Some of their early projects included the Schlitz Brewery and Cook Convention Centre. This transformed into Barnhart Crane and Rigging run by Dick and his wife Nancy.

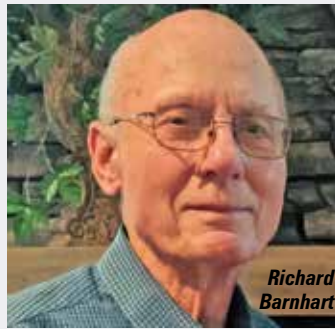
In the late 1970s, Barnhart made the decision to focus on providing cranes for large construction projects, helping the company grow into a globally recognised business with 58 locations across the USA, with more than 1,800 employees. He decided to step back from the day to day running of the business in 1986, handing over to his sons Alan and Eric.

Not one to rest on his laurels he and Nancy fulfilled a lifetime dream to sail around the world, he also served as a scoutmaster, and donated millions to organisations that helped support young people. In 2008 he was inducted into the Society of Entrepreneurs.

He also made eight trips to the gulf coast with his specially modified tractor to help with clean-up operations after hurricane Katrina. He was apparently still driving his tractor a few weeks ago, helping his sons clear downed trees on his 200 acre home.

He leaves behind Nancy, his wife of 68 years, children Eric, Alan and Donna, 12 grandchildren, and 10 great grandchildren.

The crane rental industry has not only lost another of its pioneers, the world has lost a truly decent and thoughtful individual.



Richard Barnhart

DOMENICO CIANO 1973 - 2022

We have only learnt of the sad news of the death of Domenico Ciano, the former chief executive of Raimondi tower cranes in early February. He actually passed away just over 18 months ago on the 19th of June 2022, at the age of 48, barely a year after he had stepped down as chief executive of the tower crane manufacturer in order to undergo treatment for a cancer diagnosis. He leaves behind his wife Cettina Iaconis and daughter Diletta.

Domenico Ciano began his career in 2002 as a mechanical engineer with Italian self-erecting tower crane manufacturer Vicario Gru, leaving after seven years with the company to join Terex as manager of its self-erecting tower crane line.

After two years with Terex he left the crane industry, taking a job with chemical bonding specialist Plasmec where he was appointed technical director. In 2014, clearly missing the crane industry, he joined Raimondi as technical director, shortly after it had been acquired by KBW Holding. In 2018 he was promoted to chief operating officer, moving up to chief executive eight months later. He stepped down due to ill health in July 2021, hoping to return to the business, following treatment for cancer. Sadly, he never made it.



Domenico Ciano

HOVAGO
Your Global Cranes partner



Experienced customer service

**High quality service
and support.**



Scan the QR-code for all
available cranes

Or go to www.hovago.com/cranes



in

Follow us for
updates on our fleet!



2024 iNTER MAT.

PARIS
24 - 27 APRIL 2024

Sustainable
construction solutions
& technology exhibition

The entire construction
industry mobilised
to build tomorrow better

#low carbon

CO-LOCATED WITH



Ask for your
FREE BADGE



Or with code **ALLPARPRI24**
on paris.intermatconstruction.com

 #intermatparis
contact@intermatconstruction.com

ORGANISED BY

COMEXPOSIUM

EVOLIS
LES ACTEURS DE L'INDUSTRIE
EN MOUVEMENT

SEIMAT

INTERMAT Paris, the company SE INTERMAT, with share capital of €80,000, registered in the Nanterre Trade and Companies register under the number 339 486 623, registered office 70 Avenue du Général de Gaulle - 92058 Paris La Défense Cedex - France

2024

The IPAF Summit and awards

13-14 March
Annual Summit and IAPAs awards ceremony of the International Powered Access Federation Copenhagen, Denmark
Tel: +44(0)15395 66700
www.ipaf.org

**Build Tech Asia**

19-24 March 2024
Asian exhibition for the building and construction market Singapore
Tel: +65 6319 4020
www.buildtechasia.com/sg

**Mawev 2024**

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

**SC&RA Annual Conference**

April 15-19, 2024
Annual Conference of the US cranes and heavy transport association including the Jobs of the Year awards
Omni Barton Creek, Austin, Texas, USA
Tel: +1(703) 698-0291
www.scranet.org/SCRA/Events

**Hanover Messe**

April 22 - April 26
World's largest industrial exhibition Hanover, Germany
Tel: +49 511 89-1
www.hannovermesse.de

**Intermat 2024**

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

**Hire24**

June 4-6 2024
The annual convention and exhibition of the Hire and Rental Association of Australia and the Elevating Work Platform Association Brisbane, Australia
Tel: +61 (0)2 9998 2255
www.hire21.com.au

**Innovationstage der Höhenzugangstechnik**

June 19-20, 2024
Innovation Days, informal event for innovative access equipment, mini cranes and telehandlers Hohenroda, Hessen Hotel Park, Germany
www.borntolift.de/innovationstag

**Crane Safety 2024**

Date to be confirmed 2024
Crane safety conference organised by the Institution of Mechanical Engineers and supported by the Vertikal Press London, UK
Tel: +44 (0)207 973 1251
https://events.imeche.org/ViewEvent?e=7624#

**Platformers' Days 2024**

September 6-7, 2024
German Access and lifting exhibition Karlsruhe, Germany
Tel: +49 721 3720 5096
https://www.platformers-days.de/

**Vertikal Days 2024**

September 11-12, 2024
Newark showground, Nottingham, UK
UK/Ireland Crane, access and telehandler event. Venue to be confirmed
Tel: +44 (0) 8448 155900
www.vertikaldays.net

**IAA Transportation**

17.-22. September 2024
Leading trade fair for commercial vehicles, bodies and transport units Hannover, Germany
Tel: +49 (0)30 897842-0
www.iaa-transportation.com

**JDL Expo**

September 25-27, 2024
French cranes and access exhibition/event Beaugre, France
Tel: +33 (0)1 45 63 68 22
https://jdlexpo.com/

**CICA National Conference 2024**

Date to be confirmed 2024
The annual conference of the Crane Industry Council of Australia Perth - Western, Australia
Tel: +61 03 8320 0411
www.confrence.cica.com.au

**The Utility Expo**

October 7-9 2024
Previously The International Construction & Utility Equipment Exposition /Demo Expo - is the US utility industry's largest show
Louisville, Kentucky, USA
Tel: +1 414-274-0644
www.theutilityexpo.com

**Glasstec**

22.-25. October 2024
Exhibition for glass, windows and glass handling Düsseldorf, Deutschland
Tel: +49 211 456001
www.glasstec.de

**Bauma China 2024**

November 26-29, 2024
bauma in Shanghai Shanghai, China
Tel: +49(0)89 9 4920251
Fax: +49 (0)89 9 4920259
www.bauma-china.com/

**Bauma Conexpo India**

December 11-14 2024
Preliminary dates for the bauma/Conexpo exhibition in India Noida, Delhi, India
Tel: +49 89 949-20255
www.bcindia.com/en/



2025

Baumag

January 26-29, 2025 Swiss construction equipment show Lucerne, Switzerland
Tel: +41 56 204 20 20
www.baumaschinen-messe.ch /htm/home.htm

**Bauma 2025**

January 23-26 2025
World's largest construction equipment show Munich, Germany
Tel: +49 (0)89 51070
www.bauma.de/index-2.html

**The ARA Show 2025**

January 30- February 1, 2025
The American Rental Association's annual trade show and convention Las Vegas USA
Tel: +1800 334 2177
http://www.arashow.org/

**Executive Hire Show**

February 12-13 2025
UK tools and General equipment exhibition Coventry, UK
Tel: +44 207 973 4630
www.executivehireshow.co.uk

**SC&RA Annual Conference**

April 21-25, 2025
Annual Conference of the US cranes and heavy transport association including the Jobs of the Year awards, Arizona Biltmore Hotel, Phoenix, Arizona, USA
Tel: +1(703) 698-0291
https://www.scranet.org/SCRA/Content/events/Annual-Conference.aspx

**GIS 2025**

Date to be confirmed, 2025
Italian crane, access and heavy transport exhibition Piacenza, Italy
Tel: +39 010/5704948
www.gisexpo.it



2026

Swissbau

20-23rd January 2026
Swiss construction exhibition Basel, Switzerland
Tel: +41 58 200 20 20
www.swissbau.ch

**The ARA Show 2026**

February - Dates to be confirmed the American Rental Association's annual conference and exhibition Orlando, Florida, USA
Tel: +1800 334 2177
www.arashow.org

**Conexpo-Con/Agg 2026**

March 03-07, 2026
The leading US construction show Las Vegas, Nevada, USA
Tel: +1 414-298-4133
www.conexpoconagg.com

**Samoter**

May, 6-9, 2026
International earthmoving and building equipment show Verona, Italy
Tel: +39 045 8298111
www.samoter.it/it

**SC&RA Annual Conference**

April 20-24, 2026
Annual Conference of the US cranes and heavy transport association including the Jobs of the Year awards
Omni Amelia Island, Amelia Island, Florida, USA
Tel: +1 (703) 698-0291
Website: https://www.scranet.org/SCRA/Events/

**Apex 2026**

June 2026
International powered access trade show Maastricht, The Netherlands
Tel: +31 (0)547 271 566
www.apexshow.com

**Smopyc**

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



Visit: www.Vertikal.net/en/events for a full listing of events with direct links to the organisers.



JOIN US FOR THE UK & IRELAND'S LIFTING EQUIPMENT & WORK AT HEIGHT EVENT

For 2024, we are heading to our new venue, Newark Showground in Nottinghamshire where professionals from the industry will see the very latest that the Crane, Aerial work platform and Telehandler market has to offer. If you want to get your products in front of the key buyers, end users and purchasing influencers, it's the place to be.

Newark Showground WED 11TH & THUR 12TH SEPTEMBER 2024
Visitor Registration now open www.vertikaldays.net/visitor



FACE TO FACE WITH INDUSTRY PROFESSIONALS



DEMONSTRATE THE LATEST PRODUCTS



FOLLOW THE LATEST TECHNOLOGY



CATCH UP OVER A COFFEE IN THE MARKETPLACE



HOLD A LUNCH MEETING AT THE CATERING PAVILION

MARKETPLACE

RECRUITMENT . USED EQUIPMENT . REPLACEMENT PARTS

Place your products or services in front of more than 28,700 individuals who buy, specify or use cranes, lifting gear, aerial work platforms, work at height equipment or telehandlers across 195 countries. Given the global readership you may be surprised at how little a regular advert costs and how effective it can be.

www.vertikal.net/en/cranes-and-access/advertise
The Vertikal Press Ltd
advertising@vertikal.net or info@vertikal.net

Contact us at:



The Vertikal Press Ltd.
PO Box 6998, Brackley,
NN13 5WY UK.
Tel: +44 (0)8448 155900
E: advertising@vertikal.net



Vertikal Verlag
Sundgauallee 15, Freiburg
Germany, D-79114
Tel: +49 (0)761 8978660
E: info@vertikal.net



Mobile Service Engineer - Access

We are looking for a mobile service engineer specialising in Spider and Truck mounted lifts. The location is flexible.

The role will ideally suit an experienced person with a proven track record in this area, who is self motivated and can work independently on repairs and service calls etc and ideally be CAP approved.

We are a relatively small, dynamic and freindly company, with the UK distribution rights for the Easy Lift spider lift range and Socage truck mounted lifts.

An excellent salary, and benefits are available for the right candidate.

For more details please email:
richard@iasales.co.uk

www.iasales.co.uk



Tower Crane Operator seeks New Challenge

I am a skilled and experienced tower crane operator looking for a new job in Saudi Arabia.

I have previously worked in Dubai and am open

Uzzal Hossen

Email:

Mdhossen24252@gmail.com

FIND THAT PERSON

LOOKING FOR CRANE, ACCESS OR TELEHANDLER PEOPLE?
LOOKING FOR A JOB?



Then why not start right here in the Cranes&Access recruitment section? With your support we can build a highly useful recruitment resource for the industry right within the UK and Ireland's only dedicated publication.

Call or email us today to find out about our great start up rates. Jobs Wanted ads are FREE!

+44 (0) 8448 155900

If responding to one of the ads please say you saw it in Cranes&Access.

**cranes
&access**

Vertikal
.net

ITEMS OF LIFTING EQUIPMENT FOR SALE

A-Frame mobile gantry, on four castors

SWL	2,000 Kgs	
Inside width 2.1m	Height to beam underside 2.15m	
Overall height 2.23m	Depth 9.0m	£500:00

Hydajaws hydraulic eye-bolt tester.

(pull-out tension tester) Model 0087/C

Pull up to 25Kn. c/w an array of spacers, fitting etc.

In padded, protective steel box **£850:00**

10 Te digital load-link, by Straightpoint

with 2 x remote readout cables

(1 x 5m lead, 1 x 12m lead) and two bow shackles to suit

Comes in its own hardwood box. **£850:00**

3.2 Te digital load link by Tractel,

with 2 x bow shackles to suit

and protective case

£750:00

14 x Hand test weights 56lbs (25Kgs) each

= 350 Kgs total weight

£150:00

3 Te, lever hoist by Tractel

£150:00

2 x Te hand chain block by Tractel, 15 Mtr lift.

£200:00

1 Te lever hoist by Tractel

£90:00

1.5 Te lever hoist by Hackett

£90:00

All prices net. (no VAT)

Buyer collects from Essex/ Cambs border

Reply to roberts-joan@btconnect.com

Business Offered for Sale Access Equipment and Material Handling Hire Business

Offered for sale upon the instruction of a retained client, the entire trading business and assets of an independent provider of powered access equipment hire, and material handling equipment hire. The long established business operates throughout the UK, specialising in the short term hire of Access Equipment, Forklift Trucks, and Telehandlers, and also provides a range of working at height training, and compliance and proof load testing and training.

- Extensive hire fleet (fixed assets NBV circ. £7.5m (including encumbered assets)
- Extensive transport and support fleet
- Leasehold Trading Premises (with option to purchase)
- Transaction support funding available to the purchaser, subject to status
- Established, growing, cost efficient business with ongoing hire & training projects, and established client base.

Financial Performance: Turnover Year Ending 31 July 2022: £3.3m

Turnover Year Ending 31 July 2023: £3.5m

EBITDA: circ. £1.5m.

**All interested parties will be required to sign a non-disclosure agreement.
For further information please contact James Thomas on UK 0333 090 2009.**



C&A Access & Lifting directory

The fast and efficient way to find a supplier

Reach over 28,000 readers for only £185/€210 per year with live link direct to your website. Check out the new enhanced entry option!

Book now – advertising@vertikal.net

ACCESS EQUIPMENT MANUFACTURERS

AIRO	www.airo.com
Alimak	www.alimak.com
Almac	www.almac-italia.com
ATN	www.atnplatforms.com
Böcker	www.boecker.de
Bravi	www.braviisol.com
Bronto Skylift	www.brontoskylift.com
CLM Construction Supplies	www.clm-supplies.com
CMC	www.cmclift.com
CPL	www.cpl-ltd.com
CTE	www.ctelift.com
Denka-Lift	www.rothlehner.com
Dino Lift	www.dinolift.com
Dingli	www.cndingli.com
Easylift	www.easy-lift.it
Falcon Lifts	www.falconlifts.com
GEDA	www.geda.de
Genie	www.genielift.com
GSR	www.gsrspa.it
Haulotte	www.haulotte.com
Hinowa	www.hinowa.com
Holland Lift	www.hollandlift.com
Imer Access	www.imergroup.com
Iteco	www.imergroup.com
JCB	www.jcb.com
JLG	www.jlg.com
Klaas	www.klaas.com
Klubb	www.klubb.com
Leguan Lifts	www.leguanlifts.com
Manitou Group	www.manitou.com
Mecaplus	www.mecaplus.es
Omme Lift	www.ommelift.com
Palazzani Industrie	www.palazzani.it
Palfinger Platforms	www.palfinger-platforms.com
Platform Basket	www.platformbasket.com
Ruthmann	www.ruthmann.de

Sinoboom	www.sinoboom.com
Saeclimber	www.saeclimber.com
Skyjack	www.skyjack.com
Snorkel	www.snorkellifts.com
Socage	www.socage.it
Teupen	www.teupen.com
Versalift UK	www.versalift.co.uk
XCMG European Sales and Services	www.xcmgess.de
Zoomlion	http://en.zoomlion.com

PLATFORM RENTAL

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

NEW & USED PLATFORMS

Access Platform Sales (APS)	www.accessplatforms.co.uk
AFI Resale	www.afi-resale.co.uk
A.J. Access Platforms	www.accessplatforms.com
Gantic, Norway	www.gantic.no
Genie	www.genielift.com
GSR Aerial Platforms UK	http://en.gsrspa.it
Haulotte	www.haulotte.com
Hird	www.hird.co.uk
Independent Access Sales	www.iasales.co.uk

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

CRANE MANUFACTURERS

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

LORRY/TRUCK LOADER CRANES

Atlas Cranes UK	www.atlasgmbh.com
Ernest Doe & Sons Ltd.	www.ernestdoeladercranes.com
Palfinger	www.palfinger.com

NEW & USED CRANES

Cotac Oy	www.crane.fi
Crowland Cranes	www.crowlandcranes.co.uk
Delden Cranes	www.deldencranes.co.uk
Ernest Doe & Sons Ltd.	www.ernestdoeladercranes.com
Gantic, Norway	www.gantic.no
HighSparks	www.highsparks.co.uk
Hird	www.hird.co.uk
Kobelco	www.kobelco-cranes.com
Rivertek Services	www.rivertekservices.com
Terex Demag	www.terex-cranes.com
Valla	https://valla-cranes.co.uk

CRANE HIRE

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

MINI CRANE HIRE

GGR	www.unic-cranes.co.uk
JT Mini Crane Hire	www.jtminicranes.co.uk
Lift Limited	www.liftminicranehire.co.uk
Hird	www.hird.co.uk

SELF ERECTING TOWER CRANES

Cork Crane Hire	www.corkcranehire.com
John Sutch Cranes	www.johnsutchcranes.co.uk
Ladybird Tower Crane Hire	www.ladybirdcranehire.co.uk

TOWER CRANES

HighSparks	www.highsparks.co.uk
------------	--

FURNITURE HOISTS

Böcker	www.boecker.de
--------	--

TELEHANDLER MANUFACTURERS

Dieci Telehandlers Ltd	www.dieci-telehandlers.co.uk
Faresin	www.faresindustries.com
Genie	www.genielift.com
Haulotte	www.haulotte.com
JLG	www.jlg.com
Magni	www.magnith.com
Manitou Group	www.manitou.com
Skyjack	www.skyjack.com
Snorkel	www.snorkellifts.com
Merlo	www.merlo.co.uk

NEW & USED TELEHANDLERS

Dieci Telehandlers	www.dieci.com
Gantic, Norway	www.gantic.no
GT Lifting Solutions	www.gtlift.co.uk
TVH Group	www.tvh.com
Vertimac	www.vertimac.com

TELEHANDLER RENTAL

GT Lifting Solutions	www.gtliftingltd.co.uk
JMS Powered Access	https://jms.co.uk
Mr Plant Hire	www.mrplanthire.co.uk

SCAFFOLD TOWERS

CLM Construction Supplies	www.clm-supplies.com
---------------------------	--

MASTCLIMBERS & HOISTS

Alimak	www.alimak.com
CLM Construction Supplies	www.clm-supplies.com
GEDA	www.geda.de
Klaas	www.klaas.com
Saeclimber	www.saeclimber.com

SPECIAL/BESPOKE ACCESS & LIFTING SOLUTIONS

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

SPECIAL & NICHE ACCESS

Acrolift	www.acrolift.co.uk
DENKA Narrow	www.rothlehner.com
JMS Powered Access	https://jms.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
Smart Platform Rentals	www.smartplatforms.co.uk

SPECIAL LIFT & TRANSPORT EQUIPMENT

Collett A Sons, UK	www.collett.co.uk
--------------------	--

HEAVY TRANSPORT/ABNORMAL LOADS

Collett A Sons, UK	www.collett.co.uk
--------------------	--

SELF-PROPELLED MODULAR TRANSPORTERS

Collett & Sons, UK	www.collett.co.uk
--------------------	--

SITE SAFETY AUDITS

Alfa Access Services	www.alfa-access-services.com
----------------------	--

INDUSTRY ASSOCIATIONS

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

HEAVY LIFT MANAGEMENT

DWLS	www.dwls.co.uk
------	--

HEAVY LIFT PLANNING & RISK ANALYSIS

DWLS	www.dwls.com
------	--

AUCTION HOUSES

Ritchie Brothers	www.rbauktion.com
------------------	--

BATTERY SUPPLIERS & MANUFACTURERS

Battery Service Hub	www.batteryservicehub.com
DC Battery Technologies	www.dcbattery.tech
C&D Technologies	https://www.cdtrajan.com
Leoch Battery UK	www.leochbattery.co.uk
Platinum International Ltd	Platinuminternational.co.uk

LOAD CELLS & LOAD MONITORING SYSTEMS

PCE Instruments UK Ltd	www.pce-instruments.com
------------------------	--

CONTROL SYSTEMS

MOBA Automation	www.moba.de
-----------------	--

GENERATOR SALES & RENTAL

JMS Powered Access	https://jms.co.uk
--------------------	---

ONLINE TECHNICAL HELP

Crane Tools	www.cranetools.com
-------------	--

OUTRIGGER PADS, MATS & ROADWAYS

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

COMPONENT SUPPLIERS

PCE Instruments UK Ltd	www.pce-instruments.com
Tele Radio Group	www.tele-radio.com

WIRE ROPE & CABLE

Rope and Sling	www.ropeandsling.co.uk
----------------	--

LIFTING GEAR MANUFACTURERS

Britlift	www.britlift.com
----------	--

PARTS & SERVICE SUPPLIERS

Alfa Access Services	www.alfa-access-services.com
Crowland Cranes	www.crowlandcranes.co.uk
Ernest Doe & Sons Ltd.	www.ernestdoeladecranes.com
Gantic, Norway	www.gantic.no
Haulotte	www.haulotte.com
IPS	www.ipspartsonline.com
JLG	www.jlg.com
Lift-Manager	www.lift-manager.com
OTR Wheel Engineering Europe	www.otrwheel.co.uk
PCE Instruments UK Ltd	www.pce-instruments.com

TVH - Group Thermote & Vanhalst	www.tvh.be
Vertimac	www.vertimac.com

RECRUITMENT

Vertikal.Net	www.vertikal.net/en/recruitment
--------------	--

SAFETY EQUIPMENT

Load Systems UK Ltd	www.loadsystems.co.uk
---------------------	--

RENTAL MANAGEMENT SOFTWARE

Higher Concept	www.higherconcept.co.uk
HireHop Equipment Rental Software	www.hirehop.co.uk
HireHop Equipment Rental Software	www.hirehop.com
Infosystem	www.levaplus.ch
inspHire	www.insphire.com
Matusch GmbH	www.matusch.de
MCS Rental Software	www.mcsrentalsoftware.com
vWork	www.vworkapp.com

STRUCTURAL REPAIRS

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

TRAFFIC MANAGEMENT

Atlas Traffic Management	www.atlastm.co.uk
--------------------------	--

TECHNICAL & SAFETY CONSULTANCY

Access Safety Management	www.accesssafety.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 Platform Sales (APS)	www.accessplatforms.co.uk
Astra Access	www.astratraining.co.uk
Ainscough	www.ainscoughtraining.co.uk
AJ Access	www.accessplatforms.com
Boss Training	www.bosstraining.co.uk
Certora Training	certoratraining.co.uk
Haulotte	www.haulotte.com
IAPS	www.iapsgroup.com
Lift-Manager	www.lift-manager.com
Smart Platform Rentals	www.smartplatforms.com
TVH Group	www.tvh.com
UTN	www.utntraining.co.uk
Versalift Training Direct	www.versalift.co.uk/training
Warren	www.warrenaccesstraining.co.uk/courses/Access Training

SAFETY TRAINING

Atlas Cranes UK	www.atlasgmbh.com
-----------------	--

TRAINING SERVICES

JLG Training	www.jlg.com
Liebherr Training (UK)	www.liebherr.co.uk
Lifting Equipment Training	www.letltd.co.uk
Mr Plant Hire	www.mrplanthire.co.uk
Rapid Platforms	www.rapidplatforms.co.uk
TH White	www.thwhite.co.uk
Terex Atlas (UK) Ltd.	www.atlascranes.co.uk
TVH Group	www.tvh.com

ARE YOU LISTED...
...in C&A's NEW
Access & Lifting
directory?

PLEASE HELP!



The rental industry charity for Ukraine – the Plant and Hire Aid Alliance – is looking for urgent help with the transport of some major donations that it has received. They include: 11 pallets of flour, 245 pallets of hospital grade universal and detergent wipes and eight pallets of hospital grade bandages – 264 pallet loads in total.

They need to be transported from, Warrington, Swindon and Ipswich to Kosice in eastern Slovakia at which point Rotary International will take over and co-ordinate their distribution within Ukraine. The flour is destined for charity bakeries in front line villages. While the medical supplies will be delivered to hospitals in the Kharkiv region which are treating military and civilian casualties, as well as the children's hospital and main hospital in Oleksandriya in Southeast Ukraine.

**The eight pallets of hospital bandages are in Warrington
The 245 pallets of wipes are in Swindon and
The 11 pallets of flour are located in Ipswich.**

The hospital supplies can be double stacked, but that still requires five x three x 40ft trucks to take them to the Slovakian/Ukrainian border. Each truck will cost £3,500 – or if someone can provide the truck and driver.

Many thanks to Travis Perkins, DHL and Lynch Plant and Haulage help to collect and warehouse a donation of 50 pallet loads of toys for next Christmas. To see an report on progress to date: - <https://aid-alliance.com/wp-content/uploads/2024/02/PHA-Report-181223.pdf>
Any help, no matter how small to cover the costs of transport - £3,500 per truck- would be very much appreciated.
email Jeremy Fish- jeremy.fish@ardenthire.com

All offers or donations - no matter how small- are most welcome.

<https://aid-alliance.com>

FREE ONLINE MARKETPLACE ADVERTISING

We are currently conducting live trials on our new online Marketplace for buying and selling anything involved with cranes, access equipment, telehandlers or lifting equipment.

The Vertikal Marketplace is a very simple format, in which buyers or sellers can upload an advert either using artwork or just plain text and photos.

For the next few weeks anyone can advertise in the Online Marketplace totally free of charge. Attractive 'bolt on' packages will also be available for anyone wishing to add their adverts to the Cranes & Access magazine - both print and digital versions.

If you have something to sell, or are looking for a specific product - just give it a try and please let us know what you think.



Vertikal.net

**EXTRA! EXTRA!
JOIN HCEA
TODAY!**

READ ALL ABOUT IT!

Join the Historical Construction Equipment Association (a non-profit organization) and receive its quarterly magazine, *Equipment Echoes*. Read fascinating articles about all types of old construction equipment, illustrated by beautiful historic photos.

That's not all we do! We also feature:

International Convention & Old Equipment Exposition
Held annually and featuring working demonstrations and static displays.

National Construction Equipment Museum and Archives
A world-renowned collection, open to the public, of everything from fully restored antique machinery to 1800s literature and photographs.

Thank you for your interest and support!



It's only \$35 US per year in the USA and Canada, \$55 US all others. To join, call us at 419-352-5616, or mail a check or money order to HCEA, 16623 Liberty Hi Road, Bowling Green, Ohio 43402.



Join online and learn more about us at www.hcea.net.

www.vertikal.net

KRAN & BÜHNE

Das Magazin für Kran- & Arbeitsbühnen-Anwender

Ihr Vorteil!

Ja, ich abonniere *Kran & Bühne* für ein Jahr (8 Ausgaben) für 26,- Euro (inkl. 7% MwSt.) frei Haus (bzw. 39,- Euro für Abonnenten außerhalb Deutschlands).

» Name/Vorname:

» Firma:
Umsatzsteuernummer (nur bei Firmen)

» Straße/Postfach:

» Postleitzahl/Ort:

» Land:

» Tel.:

» Fax:

» E-Mail-Adresse:

» 1. Unterschrift des Abonnenten:

Widerrufsgarantie: Das Abonnement kann jederzeit und ohne Angabe eines Grundes widerrufen werden. Die Kosten für nicht zugestellte Ausgaben werden zurückerstattet.

Um leistungs- und wettbewerbsfähig zu bleiben, benötigt die Industrie hochqualifizierte und ihre Märkte betreffende Informationen. Diesem Verlangen kommt *Kran & Bühne* mit praxisorientierten Artikeln nach. Mit unseren Publikationen helfen wir den Lesern, gerade bei härteren Marktbedingungen, fundierte Entscheidungen zu treffen. Die Artikel werden von einem erfahrenen, international und in Deutschland tätigen Journalistenteam verfasst. *Kran & Bühne* liefert dem Leser Neuigkeiten und Baustellenberichte. Ein wichtiger Bestandteil sind dabei harte Fakten darüber, welche Ausrüstung für welche Einsätze geeignet ist.

Abonnieren Sie jetzt einfach & bequem!

Per Fax: (07 61) 88 66 814
oder per Post: Kran & Bühne | Sundgauallee 15 | D-79114 Freiburg
Tel. (07 61) 89 78 66-0 | Fax (07 61) 88 66 814 | E-Mail: info@vertikal.net | www.vertikal.net

» Ich wünsche folgende Zahlungsweise:

Bargeldlos per Bankeinzug gegen Rechnung
(nur in Deutschland)

» IBAN:

» BIC:

» Geldinstitut:

» Firma:

» Postleitzahl/Ort:

Hiermit bestätige ich, dass die Abbuchung des jährlichen Abo-Betrages von 26,- Euro für o.g. Firma/Anschrift vorgenommen werden kann.

» 2. Unterschrift des Abonnenten:

Vertikal.net

USED EQUIPMENT • SPARE PARTS • RECRUITMENT • RECONDITIONING • HIRE • WANTED

TOWER CRANE PARTS FOR SALE

Churchill Retirement Living Plc's Plant Services Department Offer for Sale the below list of Manitowoc Potain Tower Crane Mast and Jib Sections. Price available on application by e-mail to crlplantservices@crl.co.uk.

Purchasers to provide their own transport and export documentation loading by ourselves here in Southampton GB included in purchase price.

Part Numbers ID's	Description
H-35109-11	5m Jib Section
M-44109-05	5m Jib Section
Z-10680-04	4.935m Jib Tie bar
CG-3400kg-55A-0520-009-0	3.4t Jib Counter Weight
CP-2950kg-55A-0520-026-0	2.95t Jib Counter Weight
CM-2250kg-55A-0520-027-0	2.25t Jib Counter Weight
Z12A	3 section 3.8m Cross Shaped Base
Block BA 2,500kg	2.5t Base Ballast Weight
Block BD 5,000kg	5t Base Ballast Weight
SR26E	10.5m x 1.2m x 1.2m Mast Section
SR24E	10.5m x 1.2m x 1.2m Mast section
S24E	10.5m x 1.2m x 1.2m Mast Section

Churchill
Retirement PLC

CRL Plant
SERVICES

3 POWER OPTIONS

Palazzani

WITH US, YOU CAN!

www.palazzani.it



Integrated Lifting Solutions

JRL
LONDON TOWER CRANES

+(44) 0208 327 4060

sales@londontowercranes.co.uk

- The UK's leading tower crane provider
- National coverage with a local presence
- Over 200 Cranes in fleet
- Average age of crane fleet under 5 years old
- Full inclusive service ranging from initial design, erection, service, maintenance and dismantle

MADE FOR LIFTING



The stability of a machine heavily relies on its wheels. The weight is meticulously calculated to guarantee the safety of the operator. Our commitment involves ensuring that all our equivalent wheels match the precise weight requirements.

Partner with us in prioritizing safety above all else!

Andres Verschelde
Sales Representative



CONTACT US

Parts

+32 56 612 666

parts@vertimac.com

Machines

+32 56 772 666

sales@vertimac.com

ORDER ONLINE
order.vertimac.com



TAILORED FOR RENTAL

- High quality nano electrophoretic paint technology
- World class components you know and trust
- Full range indoor and outdoor use
- Fully open platform gate
- Bumper rails

LEARN MORE AT [SINOBOOM.EU](https://www.sinoboom.eu)

SINOBOOM™

PARTNERS IN ACCESS™