

cranes & access

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March/April 2017 Vol.19 issue 2

Tower cranes

**Conexpo
review**

**Smaller
boom lifts**

Batteries

...True hybrid JLG boom...46 metre Magni telehandler...New Tadano tele crawler cranes...

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On the cover:

Three visitors at the very popular Conexpo show in Las Vegas closely inspecting a six-axle Tadano ATF 400G-6.



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The next issue of Cranes & Access scheduled for mid-May will include a review of the IPAF Summit and the full Vertical Days Guide as well as featuring Remote controls, Spider lifts and tracked access and Telescopic crawler cranes. If you have any contributions or suggestions or are interested in advertising in this issue, please contact our editorial or sales teams.

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

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It's raining cats and dogs....

The origins of the peculiar English expression 'There are more ways than one to skin a cat' are hazy but dates back to at least 1840. However most of us know it as a way of saying there are various solutions to the same problem.

The expression could be said to sum up the lifting industry - and the access sector in particular - where there is an increasingly extensive and diverse range of equipment to carry out the same work, along with individual ingenuity to find alternative and sometimes

unconventional solutions for working at height.

The first half of this year is littered with trade shows and events - many previewed and reviewed in this issue - each providing an opportunity to see the latest, weird and wonderful equipment that aims to offer a better or alternative solution to a problem.

In the boom lift feature on page 17 we deal with that very issue - looking at four different platforms that aim to do similar work. Two products are new versions of classic machine types, one is a larger version of a well-established concept, and the fourth is an 'off-the-wall' solution with as many merits as the more traditional equipment - at least on paper.

We have said many times before in regard to new ideas and concepts - that success or failure is not down to performance, quality or design, and often not even good marketing or distribution. The product obviously has to do what it is designed for, at a price that makes sense and be well marketed, but its ultimate success or failure is really down to customer demand, timing and ready availability.

The unusual Forever ODM 'Scissor Boom' attempts to blend the benefits of a scissor lift with a boom, while ATN's 12 metre Piaf 12E mast boom hopes to take larger mast booms into the mainstream market. The conservative construction industry coupled with human nature of sticking to what works and is readily available - even if it is not the best solution - means new concepts often remain very niche or wither on the vine.

But the saying 'every dog has its day' should drive engineers and inventors to keep looking for that 'better mousetrap'. Everything - they say - has been done before and it turns out that UpRight developed long cantilever platforms in the 1980s, the largest targeted at aircraft maintenance. There are many reasons why an original concept does not go 'viral', from changes in the economy, to rental companies preferring general purpose products that are easy to rent, or it simply does not look right?

Who knows - but we should all be thankful that there are still engineers and companies willing to give it a go and 'push the envelope'. Without them the industry would be a much less interesting place.

Mark Darwin

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

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The 4,300 tonne AL.SK190 heavy lift crane fully rigged and ready for work at Earls Court, London

London's largest crane

ALE's 4,300 tonne AL.SK190 heavy lift crane is now fully rigged, tested and ready to begin work on site at Earls Court in London.

The crane will lift and remove 61 large concrete portal beams from over the London Underground lines that lie below the former exhibition centre. The beams, which supported the exhibition centre, were installed when the building was erected in 1935 and need to be removed to enable a major new development on the site. The smallest beam weighs 80 tonnes while the largest is 1,500 tonnes. The crane is rigged with 120 metres of boom and is apparently the largest crane ever to operate in London. The lifts which were due to start at the end of March will be carried out at night, after the last District Line underground train has passed through the tunnels beneath. Work is expected to conclude by the end of the year.



The new Genie SX-125XC

Genie launches SX-105XC and SX-125XC

Genie has launched replacements for its current 105ft S-105 and 125ft S-125 telescopic boom lifts, both featuring the company's new mini X chassis first seen on the SX 135XC. The new models, the SX-105 XC and SX-125 XC are more than just a chassis change though, they also have the XC dual platform capacity of 300 and 454kg with Genie's new integrated platform overload system.

Both machines feature an automatic operating envelope adjustment system, with the boom retracting smoothly when the platform reaches the extent of its range. For example, should the fully telescoped boom be lowered with more than 300kg in the platform the boom will retract as it is approaches the minimum angle permitted with that extension and capacity.

Both booms are equipped with Tier 4F/Stage IIIB diesels and a redesigned heavy-duty generator. The overall width of both machines is 2.49 metres when retracted and 3.94 metres extended. The SX-125 was shown to some customers back in September in order to obtain feedback on the key design features. The company has also revamped its 135ft ZX135 articulated boom by mounting it on the new Mini X chassis, reducing its overall operating width by more than a metre to that of the original ZX135.

Manitou acquires Terex Construction India

In late March Manitou acquired Terex Equipment Private which operates from a production facility in Greater Noida, India.

Founded in 2003, the company designs, manufactures and distributes construction equipment - mostly backhoe loaders and skid steer loaders - with revenues of around €30 million, mostly in India and Southern Asia. The deal, which includes designs, assets and the facility, is expected to complete during the first half of 2017.

Magni breaks its own record

Magni Telehandlers kept very quiet about its new record breaking RTH6.46 SH 45.6 metre/six tonne 360 degree telehandler until unveiling it at Conexpo.

Weighing in at 30 tonnes, it has a forward reach of 33.5 metres and a capacity at full height of 2,500kg. Powered by a Mercedes Tier 4 final diesel, overall width is 2.54 metres, overall length 8.85 metres, and overall height 3.2 metres - with a 7.3 metre outrigger spread. More details in the June Issue of C&A.



The new 46 metre Magni RTH6.46

UK crane and platform exemption to end



The UK is preparing legislation to require smaller cranes, truck mounted lifts and other road going specialist equipment such as concrete pumps to be subject to an annual commercial vehicle road worthiness inspection/MOT test.

The legislation is currently planned for May of this year, but would not come into force until 12 months after publication. Cranes mounted on specialist carriers that currently come under the UK's STGO rules will remain exempt from the requirement, at least for now. However industry association the CPA is pressing ahead with its voluntary inspection programme for all cranes that most crane hirer's have already agreed to sign up to.

Two new Tadano Mantis tele crawlers

Tadano has launched two new Mantis telescopic crawler cranes - the 60 tonne GTC-600 with a four section 38 metre boom and the 80 tonne GTC-800 with a five-section 43 metre main boom.

The cranes are designed for the global market, and automatically switch between load charts for level ground to those for slopes of up four degrees. More details in the May issue of C&A.



The Tadano Mantis.

80ft Hybrid from JLG

JLG has launched a new 80ft true Hybrid articulated boom lift, the H800AJ. The new machine is based on the standard 800AJ, but is completely different in terms of the power pack driving the main hydraulic pumps and the counterweight which partly consists of a substantial AGM battery pack, sufficient to operate the machine for a full shift. The AGM batteries are sealed and maintenance free.

The power pack comprises a smaller Kubota Tier 4 Final diesel - in place of the normal Deutz - coupled to a large electric motor which works as a generator to top up the battery pack when in diesel mode, with the engine also powering the hydraulic pumps. When extra power or 'grunt' is required for steep inclines or heavy mud conditions etc, the electric motor kicks in and adds the additional required horsepower to the diesel. As such it is described as a parallel Hybrid system.



The new JLG HA800AJ



The Hybrid power pack - from the pumps on the unit is the same as the diesel model

From the pumps on, the machine is absolutely standard with four wheel hydraulic drive, oscillating axle with four wheel steer option. Platform capacity is 230kg, with 16.8 metres outreach, 26.3 metres working height and an overall weight of 15.6 tonnes. The new lift will be available worldwide towards the end of this year.

Hewden auction sell out

One of the largest ever auctions of new All Terrain cranes was held at the Newark Showground in the UK at the start of March, with auctioneer Euro Auctions disposing of 127 cranes from the Hewden fleet.

Around 500 buyers and observers attended, while 15 percent of winning bids came from online buyers - in total there were 1,500 registered bidders. Crane capacities ranged from 30 to 220 tonnes - 25 of them over 100 tonnes. The sale also included accessories such as ballast, test weights, slings, mats, chains, shackles and boom extensions were also on sale.



127 ex-Hewden cranes fetched £28 million

The stars of the event were surely the two 2016 five axle 220 tonne Tadano ATF 220-G5 cranes which fetched £725,000 each, while at the other end of the capacity spectrum, a 2002 30 tonne Terex Demag City crane went for £39,000. 36 cranes were bought by UK-based companies including one of the 220 tonners, while buyers from 30 countries bought the rest. The largest overseas bidders came from the Netherlands, Finland, Oman, Australia, Chile and Japan. The sale raised a total of £28 million.

More than 500 people attended the auction - 1,500 bidders registered



The new Haulotte HA26RTJ bristles with new features.

New Haulotte 80ft articulated boom

Haulotte has launched a new 80ft articulated Rough Terrain boom, the HA26RTJ. The new boom offers an improved working envelope with 17.4 metres of outreach, 9.2 metres up and over reach and a dual platform capacity - 250/350kg - although this is optional. Four wheel drive with oscillating axle and hydraulic differential lock are all standard giving 45 percent gradeability.

The company says that boom rigidity has been significantly improved, while automatic soft stop damping added when each function reaches its full extension. In order to improve visibility the HA26 can be driven at full speed with the jib fully raised, as long as the boom and risers are stowed. It also includes Activ Shield Bar 2.0, an improved secondary guarding system, now fully incorporated into the upper controls. All of the company's latest technology is also included, such as the Activ Lighting system, Activ Screen and Stop Emissions engine interrupt, which the company says can deliver a 20 percent fuel saving.

...And a 20ft mast

Haulotte also unveiled a new 20ft mast type lift, the Star 20, in the USA, with direct AC electric drive, roll-out deck and multi-stage cylinder lift.

Certified for both indoor and outdoor work, the new machine is based on the 13ft Star 6 AC, but has a larger heavier five section mast and additional counterweight. Weighing in at 1,170kg, it features both lateral and longitudinal fork pockets and active pothole protection. At the moment there are no plans to launch this exciting new product in Europe.



The new Haulotte Star 20 for the US market

Loxam acquires Lavendon

By mid-February Loxam had acquired 91.5 percent of Lavendon's equity and applied for compulsory acquisition of the remaining shares, at the same time it applied to delist Lavendon shares from the London Stock Exchange.



New Grove telescopic crawler

Grove has unveiled the 30 tonne GCH30, its smallest telescopic crawler crane to date. It joins a range that includes the GCH55, GCH75 and GCH130. All four of which are built by Sennebogen in Germany. Deliveries are scheduled during the second quarter.

As with the other GCH crawlers they are only available in the Americas, sold through the Grove and Manitowoc dealer networks and supported by Manitowoc Crane Care. The GCH30 features a three-section 25.2 metre telescopic boom with an optional 6.5 to 13 metre offsettable swingaway extension, taking the maximum tip height to 40.2 metres. Attachments include a two-man work platform, a boom mounted hydraulic auger and a pole claw.

Deliveries will begin in mid 2017.



The new 30 tonne Grove GCH30



The Grove GCH30 features a three section full power boom.



Nationwide adds 64 spiders

UK rental company Nationwide Platforms has taken delivery of 56 Hinowa and eight Teupen spider lifts. The Hinowa Lightlift platforms include the 15.4 metre 15.70, 17 metre 17.75 MK2, 20 metre 20.10 MK2 and 25.7 metre 26.14.

The new order adds to the 36 Hinowa lifts the company purchased last year. Powered by either a diesel engine or Lithium-ion battery pack, features include 230kg unrestricted platform capacity and the ability to pass through standard single doorways. The platforms were delivered by Hinowa distributor APS. The eight Teupen units are the 31 metre Leo31Ts with a 250kg platform capacity and 17.7 metres of outreach with an overall width of 1.58 metres.



One of Nationwide's Hinowa Lightlift models

Crawler crane incident

UK contractor St James Group has reported a serious incident with a 40 tonne Hitachi-Sumitomo SCX400T telescopic crawler crane that occurred on a London job site in January. The crane was lifting a compressor when the boom dropped rapidly until it bottomed out in the horizontal position. Fortunately no one was hurt or injured. An inspection revealed that a fitting connection to a pressure gauge on the pressure side of the lift cylinder had fractured, allowing hydraulic oil to escape, causing the boom to descend.

The incident was reported to the Health & Safety Executive and a joint investigation launched by the crane owner Eagle Crawler Cranes Hire and Hitachi distributor NRC. All parties confirmed the failure of an adapter that connected the pressure transducer and gauge to the cylinder. An independent report by Penenden Engineering indicated that the failure was due to fatigue, although the part does not have a given service life.

The recent communication from the contractor stated that it wanted to bring the incident to the wider attention of crane owners and users to highlight a misconception which exists that in the event of such a failure the cylinder's Holding/Lock/Check valves will still support the boom.



A 40 tonne Hitachi SCX400T telescopic crawler crane

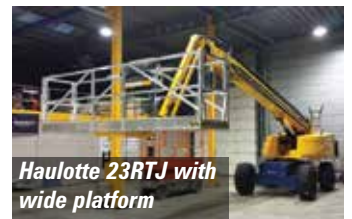
SPS expands wide platform range

Netherlands-based manufacturer Smart Platform Solutions has extended the number of boom lifts that can be equipped with its four metre extra-wide platform, and has added a five metre wide version.

SPS originally launched its extra wide platform range with a four metre aluminium unit for the 40ft JLG 400S and this and a five metre wide version have now been developed for boom lifts with articulating jibs including the JLG 460SJ, 860SJ and 1350SJP. The 86ft Manitou 280TJ straight boom and 46ft 160ATJ+ articulated boom, plus Haulotte's 69ft HT23RTJ straight boom. Platform capacities range from 230 to 270kg for the JLG and Haulotte models to 270 to 320kg for the Manitou models. The units maintain a very similar working envelope to the standard models and are aimed at cleaning or installation work on large facades or sound barriers alongside highways.



The 86ft JLG 860SJ with four metre platform



Haulotte 23RTJ with wide platform



The 85ft Manitou 280TJ with big SPS platform



The Manitou 46ft 160ATJ+ articulated boom with four metre wide platform

Snorkel material lifts

Snorkel has launched a range of six material lifts ranging from 3.5 metre/340kg capacity to a 6.9 metre/295kg capacity. The new range - essentially badged and beefed-up versions of the Lift Smart product range - falls into two families with three models in each.

The MLC line includes the 3.5 metre ML12C with 340kg capacity, 5.1 metre/318kg ML18C and the 6.9 metre/295kg ML24C. The MLM range - with a shorter mast height to pass through a standard doorway without a tilt-back system - includes the 3.8 metre ML12M with 318kg capacity, 4.4 metre/272kg ML16M and 5.5 metre/295kg ML20M. The MLM range is aimed at industrial and warehouse applications where loads may need to be moved throughout a facility.

All models feature a dual-handle, shift-on-the-fly, two-speed winch, a cable guard and heavy-duty non-marking casters. Quick-fold stabiliser legs do not require tools, making set-up easy, and non-marking wheels allow the lifts to move easily.



Snorkel ML18C material lift

Demag migrates to smaller ATs

Terex Cranes is to apply the Demag branding to some of its smaller All Terrain cranes, starting with the three axle 55 tonne AC 55-3 and 60 tonne AC 60-3. It will also be used for the new 45 tonne City crane - a Virtual Reality version of which was seen at Conexpo.

Both the AC55 and AC60 feature a 50 metre main boom, while the AC60 can be equipped with a 16 metre extension. The booms on both cranes can be lowered to five degrees below horizontal for easy rigging from the ground and outriggers can be positioned completely independently, with the IC-1 Plus calculating the load chart based on the crane's actual configuration. The cranes have an automated counterweight rigging system with optional remote controls, allowing the operator to rig and operate the crane from the ground in order to make it an easy one man operation.



The Demag AC55-3



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New 58t crane from JMG

JMG Cranes has launched a new 58 tonne battery electric pick & carry crane - the MC580 - which features a chunky four-section full-power telescopic boom with boom nose mounted hook.

The four-section counterweight telescopes with the rear axle for additional capacity although it does make the crane longer. The crane has a fully equipped cab, radio remote joystick controls, a seven inch information screen, front wheel AC direct drive, rear 180 degree steer with counter rotating front wheels, allowing it to rotate on the spot through 360 degrees with full load on the hook. Options include a 30 tonne fork attachment, quick-fit front levelling outriggers and a winch.



JMG MC580

New Shuttlelift carrydeck crane

Manitowoc has launched a new 13.6 tonne Shuttlelift carry deck crane - the SCD15. Designed from the ground up for the general rental market, the SCD15 has a standard, three section 12.5 metre boom, with the option of a four-section, full-power 15.4 metre alternative. A 4.6 metre swingaway extension is also available for a maximum tip height of 21 metres with offsets of up to 30 degrees.

The boom nose can also pivot forward by up to 80 degrees for greater clearance height when lifting in low headroom environments. The operators cab is a full 127mm wider than previous models, with a split cab door with sliding glass windows, a full LED lighting package and a graphical, easy-to-learn Rated Capacity Limiter (RCL) system are also included.

Power comes from a Tier IV Final Cummins diesel, without the need for diesel exhaust fluid (DEF). Alternatives include a gas/propane engine and Tier III Cummins for export. Three mode four wheel steering is standard.



Shuttlelift SCD15

Further restructuring at Kobelco

Kobelco has announced further changes to its crane distribution organisation in South East Asia. Singapore-based Kobelco Cranes Southeast Asia will merge into Kobelco International, also based in Singapore, which will handle regional crane sales and service while Daya Kobelco Construction Machinery Indonesia will handle both crane and excavator sales in Indonesia. All regional crane and excavator companies will now report to Thailand-based Kobelco Construction Machinery Southeast Asia (previously Thai Kobelco Construction Machinery).



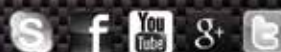
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Atlas unveils new crane

Atlas cranes has unveiled a new 4.6 tonne/22 metre loader crane, the 290.2E with eight hydraulic extensions and a maximum lift capacity of 4.6 tonnes, or 620kg at 20.74 metres.

The 290.2E has a total weight of 5.3 tonnes and offers 410 degrees of slew. The first company to take delivery of the new crane is Luxembourg-based Delvaux through Atlas dealer Carrosserie Comes.



The first Atlas 290.2E arrives in Luxembourg

Palfinger completes Solid range

Palfinger has announced six new models in its 'Solid' range with load moments of between five and 19 tonne/metres.

The models include the PK 13.501 SLD 1 and PK 13.501 SLD 3, both of which have load moments of 13.1 tonne/metres. The PK 14.001 SLD 3 which is 14 tonne/metres and the PK 14.501 SLD 5 which offers 14.5 tonne/metres. The range is made up of two further variants - the PK 13.501K SLD 3 and the PK 14.501K SLD 5. The cranes are available with up to five hydraulic extensions for an outreach of 14.8 metres.

The new cranes have been designed with an eye towards the road maintenance and municipality market, simple work which does not require special equipment. Replacing the SLD series the new cranes have a higher lifting capacity with similar or lower overall weights. They are also equipped with High Speed Extension which increases boom speeds by up to 30 percent.



Palfinger has added six more models to its Solid range



Boels has taken 21 Jekko SPX424 spider cranes

Jekkos for Boels

Netherlands-based international rental company Boels has taken delivery of a Jekko SPX424 spider crane with 20 more units on order.

The SPX424 has an 8.5 metre five-section main boom and can handle a tonne at a height of nine metres. Maximum tip height with the hydraulic telescopic jib installed is 15 metres with a capacity of 300kg. Maximum radius with the jib is 11.9 metres at which point it can lift 130kg.

Link-Belt approves synthetic cable

Link-Belt has approved Samson's new K-100 synthetic hoist rope on its full range of cranes.

Designed specifically for mobile cranes, the synthetic rope was launched at Conexpo 2014, the result of a joint development between Samson and Manitowoc which had worked exclusively on the cable for the first year. It is 80 percent lighter than wire rope and features torque-neutral technology, eliminating load spin and does not require lubrication.



Samson's synthetic rope is 80 percent lighter than regular wire rope

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Companies reporting on a calendar year have now mostly filed their year-end results, in general they do not make comfortable reading.

Steady as she goes at Skyjack

Skyjack has reported sales for the full year of \$866.4 million, almost two percent higher than in 2015 thanks to higher sales of scissor lifts in Europe, North America and Asia, along with a strong pickup in US telehandler sales partially offset by lower boom sales in North America and Europe. Operating profits were seven percent lower at \$145.2 million.



Profit slump at Haulotte

Haulotte has confirmed full year revenues up three percent to €457.8 million, while net profit after tax dropped 16 percent to €23.3 million. The fall is due to competitive pressures in Europe, where the company saw most of its growth last year, and exchange rate issues particularly with the UK. The product mix also helped contribute to lower margins.



Full year losses for Manitex

Manitex - which also owns PM, Oil & Steel and Valla Cranes - has reported a 10 percent fall in full year revenues to \$288.96, with a pre-tax loss of \$16.57 million compared to a loss of \$6.97 million in 2015. Sales in the lifting business were down 11 percent to \$173.0 million due to lower sales of Manitex boom trucks to the energy market and lower sales of PM loader cranes. Additionally the division sold fewer large capacity cranes, resulting in lower margins and an operating loss of \$1.07 million compared to a profit of \$72,000 last year. The ASV division saw revenues decline 11 percent due to a 50 percent reduction in sales to CAT, but managed to maintain profitability due to increased higher margin sales to distributors.



Ashtead continues to fly high

Ashtead, owner of Sunbelt Rentals in the USA and A-Plant in the UK, reported a 25 percent hike in revenues for the nine months to the end of December. Total revenues were £2.69 billion with strong growth in both the US and UK. Pre-tax profits for the period were more than 25 percent higher at £584 million.

Sunbelt revenues in dollars were up nine percent to \$2.69 billion, with an operating profit of \$840 million, also nine percent up on the year. In the UK A-Plant revenues increased almost 15 percent to £301.7 million, with an operating profit of £50.4 million - more than seven percent higher than last year.



A-Plant takes Kier Hoist

Ashtead also announced that its A-Plant business acquired the Kier hoist business along with a five year supply contract. The asset purchase deal includes all relevant equipment and ongoing business of the Kier hoist division, which will be incorporated into GB Access, A-Plant's specialist personnel and materials hoist sales and rental operation.



Wacker Neuson slips back

German telehandler and compact equipment manufacture Wacker Neuson has reported its full year results. Revenues slipped one percent to €1.36 billion, while pre-tax profits dropped 16.5 percent to €81.4 million. Revenues in Europe and the Far East/Asia were up on the year, while sales in North America declined. The company is however optimistic for the year ahead.



Tough first year for Herc

Herc Rentals - previously Hertz Equipment - has reported its full year revenues of \$1.55 billion - down 7.5 percent on 2015. Last year's pre-tax profit of \$156.9 million however was converted to a loss this year of \$4.9 million due to costs associated with the company's separation from the Hertz car business, lower revenues and substantially higher interest costs. 2015 profits were also inflated by a \$50.9 million gain from the sale of the French and Spanish business.



Tough year for H&E

US sales and rental company H&E Equipment saw revenues fall almost six percent to \$978.1 million in 2016, due mainly to lower new and used equipment sales which fell 17 and 18 percent respectively. Rental revenues edged up half a percent. Pre-tax profits dropped 22 percent to \$59 million. Rental rates fell 0.6 percent over the year, while physical utilisation declined 1.2 percent to 69.7 percent with a slightly larger fleet.



Positive year for Alimak

Mastclimber and hoist manufacturer Alimak posted full year revenues one percent higher at just over SK2 billion (\$228 million) with stronger a performance from construction and rental markets offset by lower industrial revenues due to a slow-down in oil & gas activity. Pre-tax profits were 42 percent higher at SK281.4 million (\$31.3 million), while order intake during the year improved 1.5 percent to SK2.14 billion (\$238 million.)



Further declines at Terex Cranes

Terex Cranes has posted its full year results with revenues down 19 percent to \$1.27 billion, while last years' operating profit of \$56.3 million was converted to a loss this year of \$321.7 million due to substantial restructuring costs. The order book/backlog at the end of December was \$323 million, down from \$407 million at the end of 2015.



Challenging year end for Genie

Genie achieved full year revenues of \$1.98 billion in 2016, 12 percent lower than in 2015, due to lower rental company replacement business in North America, along with flat sales in Europe. Operating profits for the period slumped around 34 percent to \$177.4 million. The backlog/order book at the end of December was \$506 million down from \$570 million at the end of 2015.



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

The new CTE Zed 15.2 on an Isuzu 4x4 pick-up truck



15m pick-up from CTE

CTE has launched a new pick-up mounted platform - the 14.7 metre Zed 15.2 for mounting on either the Isuzu D-Max 4x4 or the Toyota Hylux 4x4 chassis.

The new platform has 6.3 metres of outreach and a platform capacity of 230kg with the 1.4 metre by 700mm basket having 120 degrees of platform rotation. The unit has 360 degrees of continuous slew with a 2.75 metre square outrigger footprint. Gross Vehicle Weight is three tonnes.

Heli to merge access operations

Belgian sales and rental company Heli is to merge its Heli Equipment division with the High & Safe suspended platform and scaffold business that it acquired in October.



New Irish crane company

c&a

news

Bosslift's new 50 tonne Liebherr LTC1050



A new crane hire company - Bosslift - has been opened in Ireland with its headquarters in Cootehill, County Cavan.

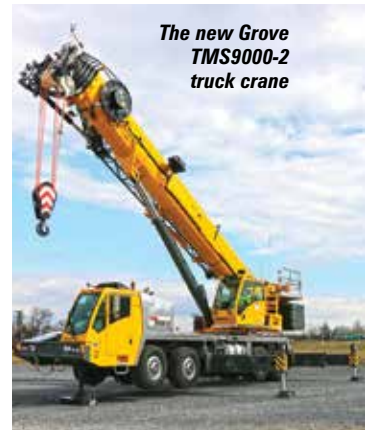
Founded by crane industry veteran Cathal McNally, the new company will also be opening locations in Dublin and Belfast and has kicked off its fleet with a 50 tonne Liebherr LTC1050 City-type All Terrain crane and a five axle 250 tonne Grove GMK 5250L.

New Grove truck crane

Grove unveiled a new four axle 100 tonne US truck crane at Conexpo the TMS9000-2 which replaces the TMS9000E.

The crane features a new, 51.6 metre six section Megaform Twin Lock boom with manual offset or luffing bi-fold swingaway options and additional inserts. It is 363kg lighter than the 9000E in spite of its longer boom, and has been optimised to comply easily with various US road regulations. Load charts are five percent better than its predecessor. According to chief executive Barry Pennypacker the new crane was designed from scratch in just six months.

The new Grove TMS9000-2 truck crane



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- UK-based **Cadman Cranes** has appointed **Dave Dye** as sales director.
- Germany's **I&H** has taken a 220t **Tadano ATF 220G-5 All Terrain** crane.
- Scotland's **Easy Reach Access** has ordered two **Teupen** spider lifts, a **Leo31T** and **Leo35T**.
- Germany's **Megalift** has taken three **Liebherr LTM 1250-5.1** cranes and ordered an **LTM 11200-9.1**.
- UK-based **John Sutch Cranes** has taken a **CR-200Ri** city-type All Terrain crane.
- Jacco Hartkoorn** has joined the **Holland Lift** international sales team.
- Whirlpool UK** was fined £700,000 after a fatal platform incident.
- Italian rental company **MinoEge** has taken three **Socage** platforms.
- Van den Brink Hoogwerker en Kraanverhuur** has taken the first **Genie SX-135XC** in the Netherlands.
- Croatia's **Zagrebttrans** and Poland's **Crane Rental** have ordered large **Demag** cranes.
- UK's **GT Access** is equipping 180 machines with **Trackunit** technology.
- UK-based **Lifterz** has recruited **Malcolm Oliver-White** and **Stuart Harling**.
- Scottish rental company **Whyte** has taken two **Liebherr LTM 1130-5.1 All Terrain** cranes.
- Northern Ireland's **Clerkin Elevation** has taken a 42m **Ommelift 4200 RBDJ**.
- French rental company **High Rent** has taken delivery of a **Genie SX-180** boom lift.
- France's **Mediaco** has ordered 25 **Demag All Terrain** cranes.
- Germany's **Beyer-Mietservice** has taken delivery of 40 **Manitou MT 625H** telehandlers.
- Riwal Denmark** has taken delivery of a 33 metre **TCA Falcon FS330Z** spider lift.
- Empire Crane** of the US has ordered two **Tadano Mantis** telescopic crawler cranes.
- Hiab** has appointed **Nikolaus Scheurer** as vice president, marketing and communications.
- Middle East **Sarens Nass** has ordered 15 **Demag AC-130-5 All Terrain** cranes.
- Sennebogen** has appointed Estonia's **ScanBalt Crane** as Baltic states dealer.
- UK-based **Mann Crane Hire** has ordered a 50t **Tadano ATF 50G-3 All Terrain** crane.
- US-based **Groves Equipment Rental** has ordered a 51t **Grove GRT655L Rough Terrain** crane.
- Bronson Crane** has ordered the first **Potain Hup 40-30** self-erecting tower crane in the USA.
- India's **Sanghvi Movers** has ordered 18 **Grove GMK6300L All Terrain** cranes.
- Germany's **Hamburger Hafen und Logistik** has ordered 11 **Kalmar** diesel-electric straddle carriers.
- US-based **R.H. Marlin Crane Rental** has taken a 250t **Grove GMK 5250L All Terrain** crane.
- Crane 29** in Bristol docks, UK has been converted to a one bedroom hotel room.
- Access industry veteran **Erwin Müller** has died age 65.
- US **Bragg Crane Service** has ordered two 400t **Liebherr LTM 1400-7.1 All Terrain** cranes.
- UK's **Bob Francis Crane Hire** has ordered a 220t **Tadano ATF 220-G5 All Terrain** crane.
- India's **Sanghvi Movers** has ordered seven 650 tonne **Demag CC 3800-1** crawler cranes.



Dave Dye



Jacco Hartkoorn



Malcolm Oliver-White



Stuart Harling



Nikolaus Scheurer



Erwin Müller

- Scotland's **LoadFast Systems** has added **Dylan Clifford** and **Ryan Ferguson** to its team.
- US-based **Crane and Rigging** has ordered eight **Liebherr All Terrain** cranes.
- UK/Irish **Cork Crane Hire** has taken a **Spierings SK1265-AT6** mobile tower crane.
- US-based **Bigge Crane & Rigging** has ordered a **Potain MDT 219** flat top tower crane.
- Ireland's **Doyle Shipping Group** has taken a **Liebherr LRS 545** reachstacker.
- Barge Terminal Tilburg** has taken five **Kalmar Gloria** reachstackers.
- Dave Bendle**, **Skyjack** service manager Europe, Africa and the Middle East is to retire.
- Liebherr** will supply a 3,000t **HLC 295000** marine crane to Belgium's **Deme**.
- Poland's **Corleonis** has taken a 250t **Demag AC 250-5 All Terrain** crane.
- India's **Mtandt** has ordered 158 new platforms, telehandlers and cranes for its fleet.
- Cristof Seidenather**, managing director of **Lebus Germany** is handing over the company to a third generation.
- Germany's **HHLA Frucht-und Kühl-Zentrum** has taken a **Gottwald G HMK 4406** mobile harbour crane.
- Dubai Parks and Resorts** has taken the first **Genie Z-60/37DC** booms in the Middle East.
- UK-based **City Lifting** has taken delivery of its second **Raptor 184** articulating luffing tower crane.
- UK's **Global Energy Group** has taken a 35t **Kato CR-350Ri** City-type All Terrain crane.
- Austria's **Prangl** has promoted **Gerhard Eisenkölbl** to Geschäftsführer of the company.
- Germany's **MSG Krandienst** has taken a 160t **Demag AC 160-5**.
- Italy's **Messina Group** has taken nine **Kalmar Gloria DRG450** reachstackers.
- Scotland's **Truck Plant Services** has taken a new tri-axle trailer from **Andover Trailers**.
- Singapore's **Tat Hong** has announced the resignation of **Tse Po Shing**.
- Scotland's **EnerMech** has appointed **Chris Dixon** as director of UK Mechanical Handling Services.
- Belgium-based **Sarens** has ordered 18 **Demag All Terrain** cranes.
- Australian rental company **Hire Guys Balcatta** has taken a **Niftylift 4x4 Hybrid** boom lift.
- Belgium's **Duma Rent** has taken delivery of five **Unic** spider cranes.
- Germany's **Sönke Jordt** has taken a 250t **Liebherr LTM 1250-5.1 All Terrain** crane.
- Northern Ireland-based **CP Hire** has taken 10 new 45t **JLG 450AJ** articulated boom lifts.
- Poland's **Beckmann Volmer Technology** has appointed **Flamanda** as dealer for Lithuania & Latvia.
- Texas-based **ReachMaster** has become a certified **IPAF** training centre.
- Daniel Miller**, chief executive of **Manitou Americas** will leave the company in late April.



Dylan Clifford



Ryan Ferguson



Dave Bendle



Gerhard Eisenkölbl



Chris Dixon



Daniel Miller

- UK-based **Alfa Access Services** has promoted **Graham Davis** to technical operations director.
- MEC** has appointed **Michael Liberto** as regional sales manager southern and western states in the US.
- UK-based **Southern Cranes & Access** has taken three **Terex All Terrain** cranes.
- Germany's **Schmidbauer** has taken a **Spierings SK 597-AT4** self-erecting tower crane.
- CTE UK** has delivered a 26m **Zed26JH** to property maintenance company **DPR**.
- JLG** has made **SkyGuard** secondary guarding standard on all boom lifts.
- Hiab** has won an order for 100 loader cranes from a Chinese wind turbine manufacturer.
- The UK's **Access Alliance** has appointed **Trackunit** as its access control and telematics supplier.
- UK-based **J. Hewitt Crane Hire** has taken delivery of a 250t **Grove GMK5250L All Terrain** crane.
- Trojan battery** has appointed **Phillip Taylor** as chief human resources officer.
- Terex Cranes** has upgraded its 500 tonne **Demag AC 500-8 All Terrain** crane.
- German steel erector **A. Preun** has taken delivery of a 50t **Tadano ATF 50-3**.
- Socage** has appointed **Access Platform Sales (APS)** as its dealer in the UK.
- Australia's **United Forklift and Access Solutions** has placed a \$26 million order with **Haulotte**.
- Poland's **Tauron** has taken delivery of two 16 metre **Beckmann BVT LTS-16** truck mounted platforms.
- Almac** has delivered nine 20ft **Bibi 870-BL/Evo** scissor lifts in southern France.
- Germany's **J+B Küppers** has taken delivery of a 100t **Demag AC 100-4L All Terrain** crane.
- Ramirent** has published its full year results with a strong fourth quarter pick-up.
- Manitowoc** has appointed **Rene Porto** as sales director for its Brazilian operation.
- Linden Comansa** has launched a new **LCL700** luffing jib tower crane.
- Italian spider crane manufacturer **Jekko** has appointed **Eurogruas** as distributor for Mexico.
- US-based **Sims Crane** has appointed **Richard 'Rick' DeCarlo** as senior manager business affairs.
- Brand Energy & Infrastructure Services** has taken delivery of 30 **JLG** aerial work platforms.
- Italy's **Scaligera Service** has taken a 21 metre **CTE Zed 21.2 JHV** truck mounted platform.
- Denmark's **Steiness Liftcenter** has taken the first **Genie SX-135 XC** in Europe.
- UK rental company **Cannon Access** has taken **Haulotte HA16 RTJ** and **HA20 RTJ** boom lifts.
- Poland's **KGK Kozenice** has taken delivery of a 16m **BVT TTS-16** tractor mounted platform.
- Italian rental company **Vernazza Autogru** has taken delivery of two **Grove All Terrain** cranes.
- Hi Rent** has taken delivery of the first 86ft **Niftylift HR28 Hybrid** in France.
- US-based manufacturer **Custom Equipment** has appointed **Dan Schneider** as director of sales.
- JLG** has appointed **Guru Bandekar** vice president of engineering.



Graham Davis



Phillip Taylor



Rene Porto



Rick DeCarlo



Guru Bandekar

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Full of innovation!

All those who thought that the aerial lift design had matured and that significant innovations were a thing of the past, think again. There is plenty happening with more on the way as we look at some different and innovative approaches to finding working at height solutions with outreach at around the 12 metre mark.

In a similar feature we published last year, a number of new model introductions had resulted in a plethora of small boom lifts in the 10 to 12 metre range with different concepts such as the mast boom, ultra-compact industrial booms, lightweight electric or compact Rough Terrain booms all with a variety of power units.

Over the past two years or so we have seen the Manitou Man'Go 12 Rough Terrain, and the slab AC electric Genie Z33/18 followed up last year by Skyjack's 30ft SJ30 articulating boom - often referred to dustbin booms - as the company re-entered a market it last contested in the late 1990s. This type of industrial articulating lift is preferred by some users over a mast boom primarily for its additional outreach - however the downside is a higher overall weight.

The mast boom, invented as a niche product in the USA moved towards the mainstream market in France when Delta brought the concept up to date and began marketing it as

a mainstream machine under the Toucan branding. In the 25 years or so since then it has steadily grown in popularity, converting users in an increasing number of markets thanks to its compact design, simple operation and light weight with enough outreach to complete most industrial maintenance-type tasks. In this sector the 10 metre working height models are by far the most popular with manufacturers including JLG, Haulotte, Manitou - also badged and sold by Genie - Snorkel, Dingli, Airo and ATN.

Since our last feature on mast booms a year ago, there have been relatively few new developments. However, several of these are at the top end of the market and certainly demonstrate innovative thinking, extending the working envelope without sacrificing too much of the original concept.

Most newsworthy is the launch of the 12 metre working height ATN Piaf 12E last year or a mast boom on steroids as we originally described it. At this year's Rental show in the USA the company



C&A boom lifts

Forever ODM Scissor Boom - a different way to tackle jobs that require outreach at height



Manitou's Man'Go 12 is now finding more takers.

ATN Piaf 12E

ATN's new electric drive mast boom - the Piaf 12E - is the company's biggest yet offering a working height of 11.83 metres and 5.1 metres of outreach at heights of over seven metres. It has zero tailswing allowing it to work safely and easily in tight spaces, while its

Forever ODM showed a different way to tackle jobs that require outreach at height without the cost and weight of a full size boom, with what it calls the 'Scissor Boom'. The 32/15 is a slightly longer scissor lift, with a multi-section cantilever platform, providing up to five metres of outreach from the front of the chassis. Just to ground this comparison we have thrown in Manitou's 12 metre Man'Go which is now finding more and more takers as well as the latest industrial boom from Skyjack.



Launched last year the 12 metre working height ATN Piaf 12E is a mast boom on steroids

30 percent gradeability covers most in plant ramps, while facilitating loading onto transport. The Piaf 12E comes with a full colour LCD diagnostic screen and hour meter to simplify operation, trouble shooting and maintenance. Like the rest of the ATN mast boom range it is sturdily built with long-lasting components and well-designed aesthetically attractive fibreglass covers - very important for machines that work or are stored in retail environments. The 12E is ideal for work in industrial environments, logistics warehouses, airports, distribution stores, aerospace, maintenance and the food industry.

The ATN Piaf 12E has a working height of 11.83 metres and 5.1 metres of outreach



Skyjack launched the 30ft SJ30 articulating boom - often referred to dustbin booms - last year.



The larger Forever 45/22 should be available next year

Forever 32/15

The Forever 32/15 is one of those items of equipment that combines the obvious - a scissor lift with huge extending cantilevered deck - but just doesn't look like it should work. The Seattle-based company is testing the market with two 'scissor boom' models - the 32/15 and 45/22 - and says it has created a third category of aerial work platform lifts outside the traditional scissor and boom lifts. This concept is however nothing new. UpRight had a similar, but larger machine in the 1980s for aircraft maintenance and continued offering smaller cantilever platforms on its slab scissor lifts, such as the XL19 and XL24, until 1994.

The company says the scissor boom 'combines the advantages of both types of lift allowing users to carry out jobs that traditionally need a boom lift, while paying scissor lift prices'. The platform also offers a larger working area, can be stored in narrower indoor spaces when fully retracted and has simple controls with just one joystick for both chassis and platform movements.

The nomenclature is simple to understand - 32ft platform height and 15ft outreach for the smaller and 45ft platform height and 22ft outreach for the larger which should be available next year. The down side of course is that the job requires enough space for the machine to work lengthwise, rather than laterally so it would be no good for working in an aisle, unless the aisle was at least three metres wide.

From an engineering point of view the products should be well sorted. Company founder Don Shi started his career as a mechanical engineer and continued for four years specialised in construction equipment design after obtaining his Master's degree. For the next seven years he worked with Manitowoc Cranes Asia Pacific distributor as sales manager before joining Cummins Engines as global commodity manager in 2001. He then moved to Seattle to join Genie as global supply chain manager. Inspired by the 'crossover' concept between cars and SUVs/4x4s, he felt this idea could also be applied to aerial work platforms, combining the advantages of scissor lifts and boom lifts. Forever ODM was founded in 2015 to research and develop this new category. The company earns its keep as a fabricator, supplying steel fabrications and components such as fabricated counterweights, welded chassis, axles, stamped steel covers and an assortment of pins to the aerial lift and construction equipment industry.

Four alternative lift choices of platforms with around 12 metre working height and substantial outreach.

| | ATN P1af 12E | Manitou Man'Go 12 | Forever 32/15 | Skyjack SJ30 ARJE |
|------------------|--------------|-------------------|-------------------------|-------------------|
| Type of boom | Mast boom | Articulated boom | Scissor with cantilever | Dustbin ind. boom |
| Platform height | 9.83m | 9.91m | 9.75m | 9.14 |
| Outreach | 5.1m | 6.69m | 5m | 6.25m |
| Capacity | 200kg | 230kg | 227kg/ 113kg ext | 227kg |
| Up and over | 7.3m | 5m | 9.65m | 3.99m |
| Overall Length | 3.66m | 5.5m/4.5m folded | 2.92 | 4.09m |
| Width | 1.2m | 1.8m | 1.12m | 1.19m |
| Stowed height | 1.98m | 2m/2.49m folded | 2.49m top of rails | 2.01m |
| Drive speed | 6km/h | 5.2 km/h | 3.2km/h | 4.8km/h |
| Weight | 4,350kg | 4,150kg | 3,500kg | 5,563kg |
| Power | Electric | Diesel 19.4kW | Electric | Electric |
| Ground clearance | 100mm | 320mm | 95mm | 102mm |



Kreitzler makes some unusual equipment including this mast boom/scissor cross

German manufacturer Kreitzler, which tends to make specialised and custom built scissor lifts and booms has built some similar machines in the past, including its mast boom/scissor cross which uses a mast boom chassis with a scissor platform to give a huge working area and outreach of up to four metres. Unfortunately the largest - the KIB 12/075 T - only has a 7.5 metre working height, a capacity of 300kg and weighs 3,900kg so is too small for our comparison and most buyers preferred height. Mast booms with large roll out platforms in place of a jib are not new of course, but have never proved popular and most mast boom companies, have dropped them from their product lines.

How the 12 metre alternatives compare?

It is all too easy to dismiss the Forever concept as a designer's

dream which in reality is totally impractical. But when compared on paper with boom lifts it performs very well - even if the laws of physics mean that it can only have a capacity of 113kg when the platform is fully extended which in the world of higher capacities and heavier people could be a major issue. It does though offer some fantastic up and over reach, especially compared to the industrial narrow aisle booms like the Skyjack SJ30 which are a great deal heavier and expensive.

JCB enters boom sector

Moving up the articulated boom size slightly to new entrant JCB. Earlier in the year the company launched its new Access division with a range of nine slab scissor lifts, and then at Conexpo it unveiled its first articulated boom the 50ft AJ50D, the first and smallest of four diesel articulated booms it plans to launch this year, topped by the 80ft AJ80D.



JCB unveiled its first articulated boom at Conexpo - the 50ft AJ50D - the smallest of four diesel articulated booms

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Features include an automotive-type changeable digital lower control panel display, and a three joystick platform control panel. JCB claims that the new boom was designed in-house and it is made in China at the plant of a third party aerial lift manufacturer. The unit has four wheel drive, two wheel steer and power is supplied by a Tier 4 Final JCB Kohler diesel. Gradeability is 40 percent and platform capacity 227kg. Detail on the rest of the specification was noticeably absent, but the machine itself looked very well finished and technically up to date. A 13.7 metre electric model, the AJ45E, will be unveiled later this year, and the boom range which will eventually include telescopic all the way up to 135ft. They will initially be marketed in North America, the UK, France and Germany with the AJ50D available by the end of this year.

All terrain booms?

Last year Teupen launched perhaps the most interesting and radical piece of access equipment seen in recent years with the introduction of its 135ft Puma 42GTX - a combination of the extreme Menzi Muck walking excavator chassis, coupled with a Teupen aerial lift boom structure. The concept has proven to be popular - for a niche machine - providing a go-anywhere platform which offers extreme gradeability on almost any type of site conditions and terrain. Even on slope angles of up to 17 degrees the lift can find a safe working position to reach up to its 42.7 metre maximum working height, with a maximum platform capacity of 400kg. A combination of low weight at 17.6 tonnes, 16.7 metre outreach - with a reduced 300kg platform

capacity - will make this machine a popular product for certain specialist applications.

The Puma is a product of an obvious requirement - the need to work at height in remote or hard to reach places with the ability to travel over exceptionally rough terrain. The product has proved that the concept can and does work, the next stage is for the other aerial lift manufacturers to pick up the idea and run with it, perhaps creating an alternative that might appeal to the more mainstream market and on lower working heights.

The first of the major manufacturers to do so is JLG which showed a new Concept dynamic auto levelling boom at Conexpo last month. The platform uses a 460SJ boom superstructure mated to a new self-levelling chassis with oscillating axles capable of levelling up to 10 degrees side to side or end to end while travelling.

While the chassis layout is totally different to the 'walking individual leg per wheel of Teupen's Puma' the JLG with its traditional front and rear axles still allows the machine to cross very uneven terrain while remaining level with all four wheels in contact with the ground, as it constantly adjusts each wheel independently.



A model showing the capabilities of the new JLG Concept boom chassis



JLG showed a new Concept dynamic auto levelling boom at Conexpo last month



Last year Teupen launched perhaps the most interesting and radical piece of access equipment seen in recent years with the introduction of its 135ft Puma 42GTX

The self-levelling ability will also allow machines to travel smoothly over undulating ground with the boom elevated, for greater productivity. The chassis can also be lowered in order to reduce overall height for transport or to pass under low overhead obstructions. This comes at a time when new standards in the USA, Canada Australia and Europe will require boom lifts to lock out when the slopes they are working on exceed the safe limit. With most booms stating that they are required to be on 'firm level ground' this will be a real challenge on most construction sites in the real world.

The extreme levelling concept will also appeal to a number of specialist applications in the utility, power and tree care sectors to name just three. In fact the success of the Almac dynamic levelling tracked scissor lift has surprised many, in that hundreds of companies around the world have been prepared to pay a

substantial premium for a scissor lift that can level on slopes without the need for jacks. And this on models with limited working heights - so expect this to be an increasingly popular feature on booms lifts of the future.

Go anywhere mast boom?

While talking go-anywhere lifts, last summer ATN launched a new 10 metre mast boom - the Piaf 1010 on rubber non-marking tracks - a bigger version of the Piaf 810. ATN began its manufacturing life in 2000 with tracked mast booms for the rental sector, only adding wheeled versions later on which now make up the majority of its range. It remains the only mast boom manufacturer producing a tracked machine.

But why a tracked mast boom when mast booms are generally used in industrial maintenance, finishing work on new builds or retail? The company says that tracked models are becoming increasingly popular

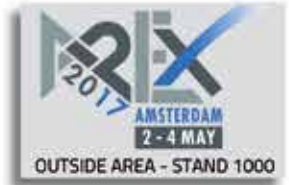


The JLG chassis can level up to 10 degrees

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ATN's new 10 metre mast boom - the Piaf 1010 on rubber non-marking tracks



- hence the launch of the Piaf 1010 - for applications such as work in large greenhouses in both France and the Netherlands, where soft ground is an issue. Tracked lifts are also very popular in Japan. They also provide lower ground pressures which can be a benefit on delicate hard floor surfaces.



The ATN Piaf 1010 is equally at home working indoors

The electric drive Piaf 1010 lift can also operate on grass, mud, gravel etc particularly with its low ground pressures. It boasts a zero turning radius thanks to counter rotating tracks and gets its power from a 24 volt 560 Ah battery pack, with centralised top up system and 85 amp battery charger and 80 percent discharge cut-off. The unit has two drive speeds, a tilt indicator with alarm, overload sensor with built-in system to prevent tipping. Options include an airline and AC power to the platform and automatic power cut-off if on a slope greater than its maximum of three degrees. With compact dimensions and weighing just 2,780kg, the machine is also relatively easy to transport.

New developments in secondary guarding

Safety is of course paramount whenever working at height and just as important on small articulated booms as with the largest telescopic booms. One of the most significant developments of recent years has been secondary guarding systems for boom lifts, and we are now seeing second and third generation systems come into play as the devices become standard equipment worldwide.



SkySiren PCS initially developed the idea of ultrasonics to warn the operator of potential hazards.

The most recent trend is a move to ultrasound or photoelectric systems. The idea was initially developed by two smaller UK rental companies in 2012, with Lavendon group company BlueSky unveiling its SkySiren PCS (Pre Crushing Sensor) system about 18 months ago. PCS uses three sensing units - one located near the control panel and two at the rear of the platform - which incorporate eight individual ultrasonic sensors to scan the area to detect and warn the operator of potential hazards. The system used a light on the control panel sensor box to alert the operator of the status of the system - red, amber and green etc - with the operator resetting via dead-man foot pedal.



The two sensors on MEC's new PPSS system

Simple obstacle detection

More recently manufacturers have begun to introduce simpler alternatives, with MEC showing its Proactive Protection Safety System (PPSS) at the Rental show, while JLG introduced its No Touch Enhanced Detection System (EDS) proximity device at Conexpo and a simple single beam SkyGuard version for secondary guarding applications.

MEC PPSS

MEC's PPSS uses two simple sensors mounted to the top of the platform's rear handrail, each of which emits a vertical expanding cone shaped beam to a height of around 1.5 metres creating a virtual curtain behind and above the operator. Once the beams detect an object the operator is alerted with an audible beeping alarm which gets quicker as the platform moves closer to the obstacle - just like a reversing system on a car.

It then cuts the platform speed and finally cuts all movement. A finger override button on the control panel allows the operator to deliberately inch closer to the obstacle and the work position. He can also lower the boom out of harms way. Development work by MEC continues, mostly field testing and optimisation of the rail mounted sensors. Overall it looks to be a simple, effective system that avoids using the operator becoming part of the system.

JLG 'No Touch EDS' and SkyGuard

No Touch EDS is a development of JLG's existing Soft Touch System which uses two dual beam infra-red sensors to stop the platform before it makes contact with an object or structure. It senses if an object or structure is nearby, first slowing then stopping the machine before it makes contact. A visual and audible warning alerts the operator as the platform approaches. The system then stops the machine, while the operator can override the system to inch closer to the work at hand. The system is easily reset from the platform.

The more basic version creates an alternative to the company's



JLG's SkyGuard is now standard on all booms worldwide



Secondary guarding systems for boom lifts is one of the most significant developments in recent years



ITI Virtual Reality in use

SkyGuard which is now standard on all booms worldwide. It simply runs a single beam over the top of the control panel. If the operator slumps over the controls he breaks the beam and the machine stops and reverses the last function. Once the beam is unbroken and the foot pedal cycled, the machine is reset.

User comments at the show were relatively positive, apart from the fact that the beam is invisible. JLG says that it has more testing to do in order to optimise the location for the sender and reflector. It is then likely to offer the system as an option to the standard SkyGuard system.

A new cable system from Genie

Genie has also announced a new secondary guarding system for boom lifts that will be available as standard equipment or for a quick and easy retrofit. The new 'Lift Guard' Contact Alarm system features an activation cable connected to one side of the control panel protection rails and running above the front edge of the control box to a heavy duty magnet on the other side. When working normally the operator places his hands/arms under the cable and operates the machine. However if pressure is applied to the cable the magnet will pull out of its socket, immediately stopping all functions, activating an audible alarm and a flashing beacon to notify those in the proximity that an incident



Genie's new 'Lift Guard' Contact Alarm system features an activation cable connected to one side of the control panel with heavy duty magnet.

may have occurred and that the operator may require assistance. In most cases the operator will simply pop the magnet back in place, recycle the foot pedal and move away from any danger. There is no need to restart the engine or cycle the emergency stop button to resume normal functionality. During an emergency the machine can be operated from the ground if necessary.

The Lift Guard Contact Alarm system is available as standard from the factory or as an aftermarket kit which Genie claims can be installed in less than 30 minutes with just a few fasteners and electrical harness connectors. It fits Genie Z and S-boom platforms and can be retrofitted on units going back as far as 2003. It is not yet available on the Z-33/18, mast booms or trailer mounted lifts.

Virtual reality training platform


Of course a platform is generally only as safe as its operator - so the better trained and skilled the safer they should be. US-based ITI VR is a Virtual Reality simulator training company with a specific boom lift programme, designed for use with new operator training or re-certification, while also enabling the learner to experience situations that would not be practical or safe to demonstrate in the real world. One of the unusual features of this system is the platform with simulated motion which allows the operator to experience the actual feeling of being in an elevated platform.

It can be fitted out with replicated control panels from various machines for accurate muscle memory development.

The hardware features a full immersion VR Oculus Rift CV1 headset, and the small footprint platform simulator, which accurately recreates the layout and feel of the real platform. The universal motion base with its four high speed electric actuators precisely recreates the feel and sensations of the real machine. The immersion is so complete that the fact that you cannot see your hands on the controls creates a very strange sensation. The company is working on adding electronic gloves that will overcome this issue. More on this amazing device in an upcoming magazine.




US-based ITI VR Virtual Reality simulator has simulated motion allowing the operator to experience the actual feeling of being in an elevated platform




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Happy days

The improving economy around the world means that the tower crane market is once again buoyant - just take a look at the skyline of any major city and count the number of tower cranes at work. Recent trends include a move towards larger capacity cranes capable of lifting increasingly heavy prefabricated components on high rise buildings, while the luffing jib tower crane is finding increased popularity. At the smaller end of the market the hydraulic luffing jib crane is also making a comeback.

Until a few years ago, luffers were predominantly used in major cities in the UK as well as a few other UK centric countries such as Singapore and Hong Kong and some parts of Australia, mainly to avoid over sailing neighbouring properties.

While this is still the case, the crane's compact 'out of service' radius and ability to lift close in to the tower are ideal on congested job sites where buildings and cranes are in close proximity and air space is limited. Whatever the reason, luffing jib tower crane demand is strong and the major tower crane manufacturers are offering additional models to suit the various applications. Possibly the most prolific of these is Spanish manufacturer Linden Comansa which has launched a raft of new cranes including several luffers such as the LCL700 which should be hitting the market about now.

Two versions are available with 50 and 64 tonne maximum capacities in two-line configuration. These capacities reduce to 32 and 25 tonnes for single-line, higher speed operation. The maximum radius of the LCL700 is 65 metres at which

the 64 tonner can lift 7.2 tonnes while the 50 tonner can manage 7.5 tonnes.

The counter jib radius is 9.5 metres and this can be reduced to 8.7 metres by using steel rather than concrete counterweights. Maximum hoist speeds are 134 metres a minute for the 64 tonne model and 170 metres a minute on the 50 tonne.

The minimum lift radius on both models is just four metres, while the out-of-service radius is between 16 and 20.4 metres depending on jib length. Both models feature a high-capacity Lebus hoist cable drum capable of holding more than 1,000 metres of rope, sufficient to work at heights of up to 500 metres in dual-line lifting. Maximum freestanding height is almost 70 metres.

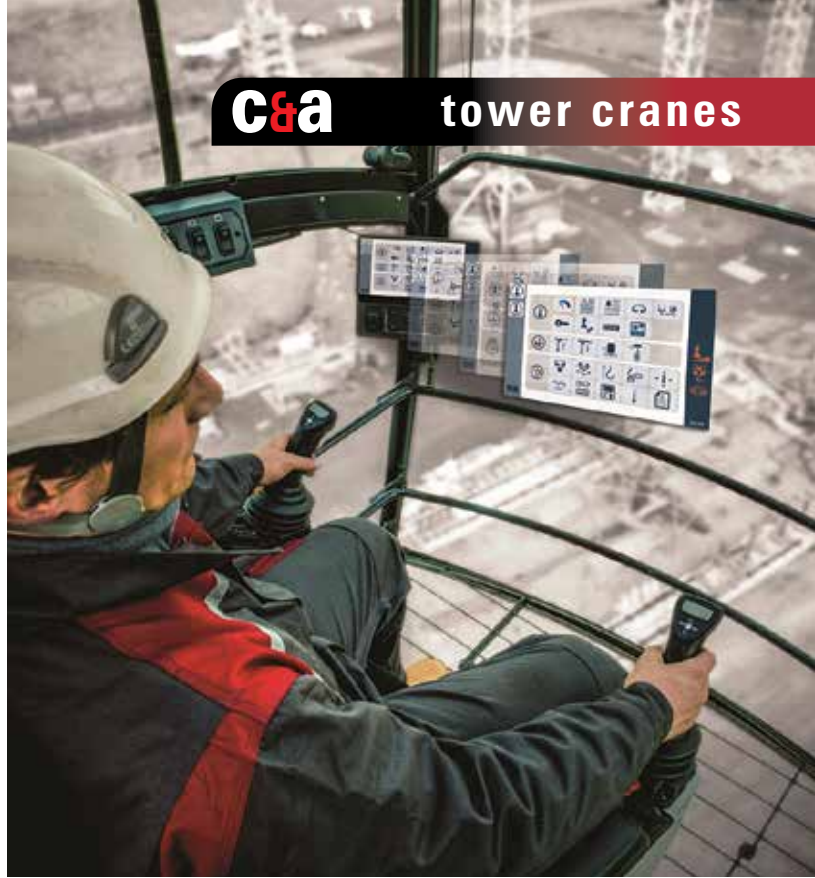
Comansa says the main feature of the LCL700 is its ease of assembly

with the heaviest weight for a quick crane erection being 18.5 tonnes but this can be reduced to 13 tonnes by removing some of the pre-assembled components.

"The large cities around the world are beginning to need high-capacity luffing-jib cranes in projects," says Comansa sales director Martín Echevarría. "We see that as an important market for the LCL700. Our new luffing-jib crane offers high performance, is extremely competitive and has a number of differential advantages that we hope set us apart from the competition."

Comansa's Chinese manufacturing operation - Comansa CM established as joint venture Comansa Jie in 2006 - also launched its first luffer, the CML 190, at Bauma China at the end of last year. Up to this time the Chinese business had focused exclusively on flat-top tower cranes. This is its first all-new product since Comansa took outright control of the company last April. Available in two versions with maximum capacities of 12 and 18 tonnes, both have free standing heights of 64.4 metres, are available with a range of jib lengths up to 60 metres and have jib-tip capacities of 1,550kg. The crane has been designed along Comansa's modular system with components designed for easy transportation and a fast erection. Hoist and luffing ropes are also pre-installed at the factory.

The main features include the hoist positioned alongside the cab which



The minimum lift radius of the Comansa LCL700 is just four metres with out-of-service radius is between 16 and 20.4 metres



The new Linden Comansa LCL700 comes in two versions - 50 and 64 tonnes

The CML190 crane is available in two versions with maximum load capacities of 12 and 18 tonnes

partners around the world. The two new models are the 14 tonne capacity LR213 luffer the largest in the company's current range and the recently launched 10 tonne capacity MRT159 flat top. The LR213 features a range of jib lengths from 28 to 55 metres. The 14 tonnes maximum capacity is possible on four parts of line with any of the jib lengths, and jib-tip capacity at 55 metres is 2,250kg. A choice of two new winches - 55 kW or 75 kW - are available both specifically designed for luffing jib crane duties and able to stow up to 1,000 metres of rope. Both are fitted to the extra-wide counter jib structure along with most other key components. The crane is also equipped with Raimondi's new deluxe R16 crane cab with good all-round vision.

"The crane's new control system will appeal to contractors, it is also easy to maintain with hoisting and luffing winches mounted on the big counter jib platform," says Raimondi technical director Domenico Ciano. "All the safety mechanisms and electronic devices are located on the counter jib, hence easy access for technicians and operators alike. Contractors will also appreciate that the LR213 can lift its 14 tonnes on four falls at a working height of 250 metres."

City Lifting corners the market

New articulating cranes are few and far between. London-based crane distributor and rental company City Lifting has been working in partnership with Swedish crane company Artic Crane since 2009, developing the articulated Raptor 84 models. The articulating crane is ideal for working on congested city sites with the Raptor 84 featuring an out of service dimension of just four metres, a capacity of two tonnes at 32 metres radius or four tonnes at 21 metres.

Artic's new crane is the larger Raptor 184 with a capacity of eight tonnes at 23 metre radius and four tonnes at 36 metres, while the minimum out of service radius is just 4.7 metres. The crane has a 42 metre free standing height with the standard 1.7 metre cross section tower and features a 60kW hoist winch and full auto greasing system with remote monitoring system.

City Lifting has purchased all the Raptor cranes produced by Artic so far and now has two Raptor 184

allows more drum capacity and a reduced out of service radius. Different winch options are available with maximum speeds of up to 178 metres a minute and 1,280 metres drum capacity. The crane is expected to be popular in markets such as Thailand, South Korea and Malaysia where the high-rise construction projects are creating the demand.

Fruits of investment

Raimondi Cranes has also launched two new cranes including a luffer. The company was purchased by SMIE in 2006 but went into administration in 2009 before making a comeback a few months later following a capital injection from the Ramco Group of Qatar. Three years ago, Prince Khaled bin Alwaleed Al Saud - owner of Saudi Arabian investment company KBW Holding - purchased Raimondi and announced plans to spend around \$100 million on expanding its Italian manufacturing facilities as well as building new facilities in Brazil, Saudi Arabia and India. The company said that these changes will allow it to increase production and offer a wider product range together with local presence and service.

This investment is now bearing fruit with the company making solid inroads into new markets, as it appoints new distributors and



Linden Comansa LCL700



Raimondi Cranes LR213 with the Deluxe R16 cabin



Raimondi Cranes MRT159

and 12 of the smaller Raptor 84's currently working in and around London. Two more 184s are on order for delivery in May and June. Plans are also progressing to update the smaller 84 to include the same design features as the 184.

Jaso Tower Cranes

Over the past year or so Spanish manufacturer Jaso has launched several new models including the 45 metre/six tonne J118HPA hydraulic luffer, the 60 metre/18 tonne J265PA, the 65 metre /32 tonne capacity J438PA and the 85 metre/24 tonne capacity J560 with newly developed EC180262VF hoist.

The most recent and interesting new crane however is its largest hydraulic luffer the J168HPA with 50 metre jib which offers a six tonne maximum capacity at 30 metres radius and 2,500kg at its 50 metre jib tip. The HPA series uses a new luffing jib design with the single hydraulic lift cylinder at the rear - rather than more usual front - of the tower which Jaso claims provides a more reliable

luffing mechanism extending the service life of the cylinder, reducing power consumption and gives the crane a compact minimum out-of-service radius of seven metres. According to the company the hoist is located on top of the jib for safer operation and to allow the crane to be transported by a maximum of six trucks.



UK crane distributor and rental company City Lifting has 12 of the smaller Raptor 84's working in and around London



The Jaso HPA hydraulic luffer series uses a new luffing jib design with the single hydraulic lift cylinder at the rear



Terex hammerhead

Terex Cranes has launched the Terex SK 452-20 hammerhead tower crane based on its popular SK 415-20. The crane has a 20 tonne maximum capacity and can handle 2.5 tonnes at the jib tip. Equipped with a new hoist system, the SK 452-20 has a maximum hoist speed of 190 metres a minute and a drum capacity of 990 metres. Angelo Cosmo, product marketing manager at Terex Cranes says: "We have increased winch speeds by 70 percent and the crane's rope capacity by 90 percent - the equivalent of an additional 30 floors of working under hook. We've also

The Jaso J168HPA has a 50 metre jib and a six tonne maximum capacity at 30 metres radius

Jaso has also launched its cloud-based Smartlink system which allows full remote monitoring and reporting of the crane's performance. It includes an alarm system that warns of overloads and wind speed etc.

Jaso has been adapting its cranes to the North American market in partnership with its US dealer Virginia-based Crane Tech Solutions (CTS), which is promoting five top slewers, the J168 hydraulic luffer and three regular luffing jib cranes. The partnership appears to be working with numerous cranes now working across the USA, including a Top Line J560 operating in the Back River wastewater treatment plant project in Baltimore, Maryland. The J560 crane has an 85 metre jib and 2,500kg capacity at the jib tip.



The new Terex SK 452-20 has a 20 tonne maximum capacity and can handle 2.5 tonnes at the jib tip

made structural changes that will make set-up and transportation faster and easier. These enhancements will help contractors lower operating costs while getting a high return-on-investment." The new slewing system consists of three 7.5 kW motors that provide a slewing speed of 0.99 rpm. The design consists of one inverter drive for all three motors and the system is fitted with an automatic lubrication system for easier maintenance.

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

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The platform on the rear jib has been reconfigured to increase the working area for technicians when erecting/dismantling and performing maintenance and uses built-in ducts to reduce cable clutter. The connection of the hoist unit and counter jib is made using two pins on the back of the unit for quick engagement for transport, while handrails flip down to reduce assembly time and effort along with shipping dimensions.

The Terex SK 452-20 can be erected on two different tower systems with the maximum free standing height in standard configuration is 88.7 metres. The crane uses the Terex EVO15 cabin with improved visibility and a 178 mm (7in) full-colour multi-language display. The crane's trolley and counter-jib can also be fitted with cameras and adjusted from the cab for improved visibility and the crane is factory ready for remote monitoring.

Two new self-erectors

Conexpo saw the launch of the six tonne Liebherr 81 K.1 self-erecting tower crane - or fast-erecting crane in Liebherr speak - the upgraded version of Liebherr's bestselling tower crane the 81 K which was launched a year ago. The new crane is more powerful with the Load-Plus function allowing lifting capacity to be temporarily increased by up to 20 percent, the jib can be extended by three metres to a maximum of 48 metres by bolting on an extension and a new external cab is available. Maximum jib tip capacity is 1,350kg.

Hook heights vary from 17.4 metres with the tower retracted to 26

metres when extended. With a maximum of six tower sections added this increases hook height to 40.4 metres, providing a maximum lift height of 55 metres with the jib luffed to 30 degrees. Prior to launch four units have been delivered to American crane rental company Ideal Crane Rental.

Many of the cranes functions will be the same as on the 81 K such as the pure Speed2Lift 2-line operation, Micromove fine positioning mode and the ABB operating-range limiting system.

The new external cab provides the operator with a much-improved view of the site and can be installed on any new K crane using its own load hook. It features user-friendly controls and more operator space. And to reduce costs, the cab can be used on different Liebherr self-erectors when necessary.



The Hup 40-30 has a 40 metre jib lifting one tonne at the tip



The Liebherr 81 K.1 has a new external cab for more safety and comfort

Potain on the Hup

Potain launched its new four tonne capacity Hup 40-30 self-erector at the company's plant in Neilla Tanaro, Italy in September last year. The Hup 40-30 follows the introduction of the four tonne Hup 32-27 at Bauma earlier in the year which replaced four existing Potain Igo cranes. The Hup 32-27 features a 32 metre jib with an adjustable two-section mast, with a third section contained within the second. With two tower masts extended it has a height of 21 metres, and reaches 27 metres when fully extended. The jib luffs to 10, 20 and 30 degrees above horizontal, to reach up to 40 metres

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under hook. Jib lengths of 11, 23 or 32 metres are available with a 1,000kg jib tip capacity at 32 metres radius.

The Hup 40-30 has a 40 metre jib lifting one tonne at the tip. Like the Hup 32-27, the 40-30 features a telescopic mast with under the hook heights from 25.6 to 30 metres when fully extended. At its maximum 30 degrees the luffing jib has an under hook height of 40 metres. In transport mode the crane is just 14 metres long making it easy to move between job sites.

The remote control features a large, colour screen with easy-to-use navigation. Its new Smart Set Up software delivers on-screen step-by-step information during crane erection and enables automatic folding and unfolding of the crane from the remote. Three selectable operator profiles vary the working speed of the crane to suit the application: Dynamic for quick and easy lifting, Standard for typical lifting applications and High Precision for more delicate load positioning.

Other features include Potain's High Performance Lifting (HPL) and High Performance Slewing (HPS). Also, the Hup 40-30 features a new Power Control function allowing it to operate via a wide range of power inputs, including low-level power supplies. Deliveries of the Hup 40-30 will start in early 2017.

Jean-Pierre Zaffiro, global product director for Potain self-erecting cranes said: "Self-erecting crane development has reached a new level of advancement and our new Hup 40-30 reflects these achievements. Speed, efficiency, versatility and compactness have all been increased over previous generations."

Potain has also launched the 20 tonne

capacity MD 559. The crane has a free-standing height of 81.5 metres and an 80 metre jib with jib tip capacity of 4.4 tonnes.

New Zoomlion crane

Zoomlion's latest tower crane aimed at North America is the 25 tonne capacity T8030-25. It is a product of the updated Jost flat-top crane designs originally acquired by Zoomlion in 2011. The T8030-25 has jib lengths ranging from 40 metres to a maximum of 82 metres with maximum jib tip capacities of three tonnes. Safety and stability of the core electrical system have been significantly improved to meet US and international standards. The crane appears popular with Zoomlion's North American dealers who have placed orders for nine T8030-25s to date. Maximum freestanding height is 73.4 metres.

Wolffkran

At Conexpo Wolffkran showed the final production version of its latest and largest flat top tower crane, the 315 tonne/metre class Wolff 7534.16 Clear, unveiled at Bauma last year. Managing director Ulrich Dörzbach said: "The 7534.16 Clear is perfect for inner-city construction sites that require space-saving solutions, up to date assembly concepts and quick turnaround times."

Wolffkran has also launched US versions of its 355 B and 700 B luffers and is now adding flat top models Wolff 6031.12 Clear, 7534.16 Clear and the 8033.20 Cross to meet demand. US versions of the 275B and 1250B luffers will follow shortly. It has been three years since Wolffkran re-entered the US market and it is pleased with the results so far. In New York City it claims to have carved out a market-share of around 20 percent.



The Zoomlion T8030-25 has jib lengths ranging from 40 metres to a maximum of 82 metres with maximum jib tip capacities of three tonnes



At its maximum 30 degrees the Hup 30-40 luffing jib has an under hook height of 40 metres



The 700B is just one of several US versions of models launched by Wolffkran

What was hot in Vegas!

This year Conexpo in Las Vegas appears to have disproved many doubters who had expected the show to be a shadow of its former self. And yet this year's event seemed busier than it has been for many years. The unseasonal very hot weather (reaching the mid 80s/29°C half way through the show) may have helped as did the location on the Las Vegas Strip - even with the strong Dollar making it an expensive week there were plenty of overseas visitors.

The show itself was particularly busy on Wednesday and Thursday before tailing off to a very quiet end on Friday and Saturday. The initial crowds added to the general mood of optimism. And with president Trump's promised mega infrastructure investment programme, exhibitors were generally hopeful of a few good years ahead - the America first motto was also more evident with the stars and stripes featuring on a number of stands.

As mentioned in last month's preview, many companies - particularly European - now time their major product launches around Bauma, so there were far fewer global new product unveilings than in prior years. That said, there were

many new and interesting products on display. The layout of the show was also different this year with all of the crane, access and telehandler companies in an extended Gold Lot with its Gold Hall, making it much easier to get around them all.

There were a number of stand-out products, including the JLG dynamic auto levelling boom, JCB's first boom lift, a 46 metre Magni 360 degree telehandler, the 40 metre ACM truck mounted platform from Australia and the electric ZEE Crane carry deck cranes. New HD virtual reality training simulators were also out in force. Here are a few of the highlights.

Liebherr kicked the show off by unveiling its new 81K.1 self-erecting tower crane with a new cab and 20 percent higher capacities compared to its previous version at six tonnes, with a 48 metre maximum radius with a 40.4 metre hook height. The jib can be raised 30 degrees for a maximum hook height of 55 metres. Liebherr also showed its two new RT cranes the 90 tonne LRT 1090-



Link-Belt flying the flag



Liebherr LRT1090-2.1

2.1 and 110 tonne LRT1100-2.1 which we previewed in October. The four axle 90 tonne LTM 1090-4.2 All Terrain received its global launch, with a 60 metre main boom - 10 metres more than its predecessor - and 8.8 tonnes of counterweight with 12 tonne axle loads.

Terex Cranes' president Steve

Filipov has been making changes to engineering, sales and product backup in an effort to halt a downward slide and boost the company's fortunes. It certainly seems to be working with a new eagerness among the guys on the booth.

New Demags included the three



JCB AJ50 D



ACM 400



Liebherr LTM1090-4.2



Terex T110 truck crane

axle 55 tonne AC55-3 and the 60 tonne AC60-3 with automated counterweight rigging system and IC-1 Plus control system. Both have 50 metre main booms which can be lowered to five degrees below horizontal to avoid rigging at height while the AC55 can be configured with 10 tonne axle weights.

Terex expanded its RT range with the 90.7 tonne capacity RT 100US with 47 metre five section boom, 2.95 metre overall width and removable counterweight. The new 100 tonne T110 truck crane with a 60 metre main boom and 65mph road speeds. Virtual reality versions of its new AC45 City and AC300 All Terrains could also be seen and should be ready for launch early next year.



Terex RT 100US Rough Terrain crane



Terex 72.6 tonne capacity Crossover 8000 boom truck crane with 38.4 metre boom

A new Terex 20 tonne SK 452-20 tower crane is based on the SK 415-20 with faster winch speeds, more rope capacity and is said to be easier to transport and set-up.

Genie launched two new XC - Xtra Capacity - booms, the 105ft SX 105 XC and the 125ft SX 125XC with unrestricted capacities of 300kg - 454kg restricted, almost 25 metres of outreach and the ability to work 2.69 metres below



Genie's big booms

ground level. The new booms join the recently unveiled 135ft SX 135XC and all share the new Mini X chassis as does the updated ZX 135/70 articulated boom which is now over a metre narrower. The new booms are all equipped with a new integrated overload system that continuously checks the weight in the platform and adjusts the working envelope to match. A tilt sensor also adjusts the working range based on the slope measured.



Genie ZX-135-70

Manitowoc had a very full stand which included the Grove GMK5150L and GMK5250L All Terrains, making their North American debut, together with



four axle truck crane on the market. The other major launch was the 51 tonne GRT655/GRT655L Rough Terrain crane with 34.8 metre four section and 43 metre five section booms respectively. Chief executive Barry Pennypacker claims the new models were designed from scratch in just six months!

The 20 tonne capacity Potain MD 559 also made its North American debut. The crane has a free-standing height of 81.5 metres and jib tip capacity of 4.4 tonnes on its 80 metre jib.



Grove GMK5250L

the GRT880 Rough Terrain. The company also extended its Grove telescopic crawler range with the launch of its smallest - the 30 ton GHC30 with 25.2 metre three section boom - built by Sennebogen. It takes the Grove tele crawler range to five models. As with the others it can pick & carry 100 percent of its load chart on inclinations of up to four degrees. Also on show was the new 50 tonne National Crane NTC55 truck crane with compact outrigger spread and a 39 metre main boom. While one of two big unveilings on the stand was the 100 tonne TMS9000-2 truck crane with a longer 51.6 metre main boom and lower overall weight than its predecessor the TMS9000E. Manitowoc claims it is the strongest



Grove GRT655L

JCB unveiled the 50ft AJ50 D articulated boom lift, the first and the smallest of its planned four diesel boom range. Weighing just over seven tonnes, it boasts 160 degrees of jib articulation, 227kg platform capacity. 4x4 drive, oscillating axle and an impressive three joystick digital control panel. All daily checks can be carried out on one side of the machine.



JCB 3TS-8T tracked Teleskid

metre swingaway extension. Finally Tadano launched two new Tadano designed Mantis telescopic crawler cranes - the 60 tonne GTC600 - with 36 metre four section main boom and the 80 tonne GTC800 with 43 metre heavy duty five section boom. Both offer additional reach with a 17.7 metre bi-fold swingaway extension and feature automatic switching to four degree load charts when a slope of two degrees or more is sensed.

Magni Telehandlers kept very quiet about its new record-breaking RTH6.46 SH 45.6 metre/six tonne 360 degree telehandler. Weighing in at 30 tonnes it has a forward reach of 33.5 metres and a capacity at full height of 2,500kg. Powered by a Mercedes Tier 4 final diesel, overall width is 2.54 metres, 8.85 metre length and overall height

There was also a lot of interest in the new JCB wheeled or tracked Teleskid with a four metre lift height and dig depth of 900mm. Forward reach is 2.4 metres.

Several new cranes from **Tadano** included the upgraded ATF 110G-5 All Terrain, with the new AML-F load moment system with automatic variable outrigger set-up, and on-board diagnostics. The 109 tonne/120 ton two axle GR1200XL Rough Terrain with six section, 56 metre boom and 10.1 to 17.7



Tadano GTC-600 telescopic crawler crane



The upgraded Tadano ATF 110G-5

of 3.2 metres with a 7.3 metre outrigger spread.

Sany - which now claims to be the biggest equipment producer in China - launched two new cranes including its largest RT, the two axle 118 tonne SRC8130C with 49 metre five section boom. The crane is available to buy now with zero

percent interest over 48 months and come with a five year warranty. Sany's second new crane was the 260 tonne SCC8260 crawler with maximum boom length of 92 metres. The crane is said to be significantly lighter than its current 300 tonner. The company now has crawler cranes ranging from 65 to



Magni launched its 46 metre RTH6.46 SH 360 degree telehandler

evolution continues...

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Sany SCC8260 - its new 260 tonne crawler crane

generation of ActivShield bar, Stop Emissions engine stop/start system which said to reduce fuel consumption by up to 20 percent, while cutting noise pollution while working,

3,600 tonnes, and says two of its largest are currently working outside of China.

Haulotte managing director Alexander Saubot was also in a positive mood stating that the Americas have bottomed out and are in recovery mode, coupled with a stable economic environment around the world. He predicted a good year for Haulotte.

Key new product launches included the 20ft Star 20/Star 8 mast type lift, which uses a similar chassis to the Star 6, but a larger mast and extra counterweight. The new 85ft HT28RTJ telescopic boom, first seen at Bauma China, with the company's latest boom lift developments, including the Activ screen, new



Haulotte's new 85ft HT28RTJ with Activ lighting

and Activ Lighting system for safe night working or loading. The same features also appear on the new 80ft HA80RTJ - HA26RTJ articulated boom which boast a significantly improved working envelope compared to its predecessor. And finally the Star 6 Picker received its US launch as the Star 13 Picking, the company expects a third of all Star 6s produced will be the Picking variation.



Haulotte Star 13 Picking

As well as launching nine new products, **JLG** showed a Concept boom - using a 460SJ top mated with a self-levelling chassis with oscillating axles capable of levelling up to 10 degrees side to side or end to end while travelling. It also celebrated 20 years of hybrid technology with the introduction of the 80ft H800AJ articulated hybrid



JLG showed two new LiftPods - this is the larger FT140



Haulotte Star 20



ZEE Crane 9000

boom lift. The machine uses a much smaller Kubota Tier 4 Final diesel - in place of the Deutz - coupled to a large electric motor which when reversed and driven by the engine becomes a generator that tops up the battery pack. In diesel mode the engine powers the pumps with the 'generator' kicking in when extra power is required for steep inclines or heavy mud etc... As such it is described as a parallel Hybrid system. A substantial AGM battery pack is said to be sufficient to operate the machine for a full shift.

The biggest articulated boom - the 1500AJ - was on the stand together with two new electric Rental scissor lifts included the 40ft/45 inch wide 4045R with both indoor and outdoor rating, allowing it to be driven at a maximum of 28ft outdoors and the 15ft/32 inch 1532R with a platform capacity of 272kg.

JLGs low level access featured two new LiftPods - the FT70 and the FT140 - both with 150kg platform capacities and working heights of 3.99 metres and 5.9 metres respectively. JLG has also entered the 4x4 utility vehicle sector in North America through a partnership with Arctic Cat and showed two models - the three seat 315G and the six seat 615G.

On the telehandler front the company launched its first heavy duty models with the 7,000kg/13 metre 1644 and 7,600kg/9.7 metre 1732 both featuring JLG's new Smart load technology - a bundle of three components including attachment recognition, a dynamic load management information and overload system (LMIS) and load stability indicator (LSI) which work together to limit operation for tricky loads. A new 3.2 tonne/12.8 metre 742 model was also on display.

JLG has also completely redesigned its 600 series booms adding the 600S and 660SJ. The 600S has an unrestricted capacity of 272kg, and a restricted 454kg capacity. The maximum capacity of the 660SJ is up 50 percent to 340kg.

Southern California-based **Zero Emission Equipment Crane** (ZEE

Crane) showed its new battery electric carry deck cranes - the 4.1 tonne 4500 series and 9000 series - with 2.3 metre jib with zero, 25 and 50 degree offsets and an easy to change single to two fall hook block. Options include non-marking tyres, an in-house designed LMI with built in diagnostics and a one-man work platform. The company intends to add other models up to 15 ton over the next few years. The crane was designed by ZEE Crane and is built by its South Korean partner Horyong. ZEE Crane has the sole distribution rights for North and South America with Horyong able to sell in the rest of the world.



JLG 1732 telehandler

Sunward displayed its new five tonne capacity SWTC5C telescopic crawler, the smallest in a range that extends to 75 tonnes. By the end of 2018 it intends to add three and nine tonne capacity models to the smaller end of the range.



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

Snorkel and **Xtreme** were on home turf being based in Henderson, just outside Las Vegas and boasted its largest exhibition stand ever, designed and built by sister company Xtreme Cube. With 23 Snorkel machines and 12 Xtreme

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The 2.5t/6m Snorkel SR5519 European-style compact telehandler

telehandlers it included several new products including the first Snorkel telehandler, the SR5519 5.8 metre/2,500kg European-style compact model which should go into production towards the end of the year. Xtreme showed its new 10,000lb/56ft XR1056 with four-section roller boom, Cummins engine and ZF transmission and axles.



Snorkel TM16E

Also on the stand was a new ultra-low entry height 19ft/30 inch wide all electric S3019E slab scissor lift, achieved by sinking the scissor stack into the base of the chassis - the only hydraulic part of the machine is built into the lift cylinder. The S3019E should be available early next year.

The show was also the launch point for the new 16ft TM16E mast type lift, with production due in the autumn. An even higher version - probably a 20ft model - is planned for next year. Snorkel also showed its new ML18C material lift launched a week earlier at the ARA.



Stros Nov 515 F3 battery personnel and material hoist

Czech Republic hoist manufacturer **Stros** launched a new battery powered personnel and material hoist - useful in countries where there are problems of freezing conditions. With a 500kg lift capacity the hoist has a rated speed of 35 metres a minute with mast ties every 12 metres. Maximum free standing height is nine metres. On a single charge the car is able to travel 800 metres although Stros is looking to install charging points as the car stops at various floor levels.

Skyjack showed the all-new 86ft SJ85AJ articulated boom trucked directly from the Rental show in Orlando, with its true parallel riser and dual 340/227kg platform capacity. The company also unveiled its latest telehandler - the 17 metre/5.4 tonne SJ1256 TH - with Deutz TCD3.6 Tier 4 Final engine with DEF fluid, but no diesel particulate filter.



Skyjack's new SJ85AJ boom



Skyjack's latest telehandler - the SJ1256 TH

Italian tracked scissor lift manufacture **Almac** used Conexpo for the global launch of its new larger model the 27ft Bibi 1090 EVO with Honda, Hatz or electric power and on the move levelling. Reachmaster also launched the 33 metre Ruthmann Eagle T-108A with 20.5 metres of outreach. The company brings in the Ruthmann top from Germany and mounts it on a Ford F650 chassis to create a medium reach truck mounted lift that can be driven on a standard car driver's licence in the USA.



Almac's new Bibi 33BL-Evo with 10m working height and up to 20 degrees levelling



Ruthmann/Reachmaster T 108 A

Link-Belt launched its largest telescopic crawler crane so far, the 227 tonne TCC-2500 with seven section, 67.9 metre pinned main boom which can be further extended with a three piece - 3.6, 12.1, and 20.4 metre - bi-fold extension with up to 45 degrees of offset that can be further extended with two 7.62 metre inserts for a maximum tip height of 105.5



Versa-Lift launched its new 1725 with extendable counterweight and almost seven metre lift height



Also new was the 109 tonne, 120 ton two axle Tadano GR1200XL with six section, 56 metre boom and 10.1 to 17.7 metre swingaway extension



Link-Belt 227 tonne TCC250 telescopic crawler crane



The all-new Link-Belt 75RT

metres. It also had the new 227 tonne 298 HSL lattice crawler and the all-new 75RT - the first in a new generation of Link Belt Rough Terrain cranes.

Here is a pictorial view of the remaining interesting and new products at the show.



The covers coming off the Grove TMS 9000-2



JMG pick and carry cranes



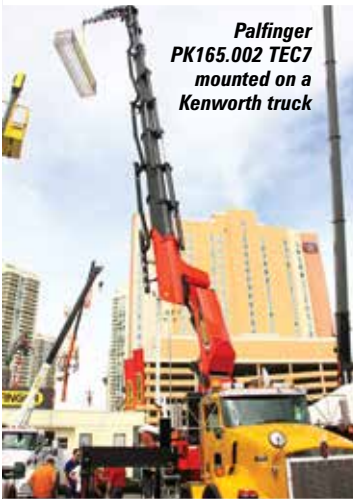
Dinolift 87RXT



The Vortex training simulator from cm labs



Chilling out



Palfinger PK165.002 TEC7 mounted on a Kenworth truck



Little Giant showed a wide range of step ladders



A 50 ton Shuttlelift wheeled carrier



The Maeda stand



The JCB Teleskid is available with either wheels or tracked - above is the 3TS-8W



Semi-trailer manufacturer Faymonville acquired heavy duty modular trailer manufacturer Cometto



Skytrak 10054 telehandler



Lige - acquired by JMG - redesigned its range last year and produces cranes with capacities from two to 110 tonnes



Time Versalift showed its 56 metre PHX-180-I



MEC was celebrating 40 years in the business



Link-Belt 227 tonne 298 Hylab Series 2 crawler



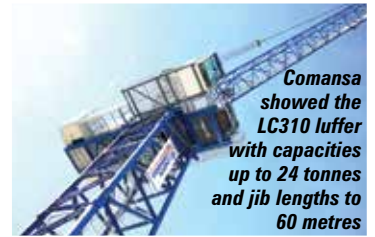
Anderson underbridge inspection platform



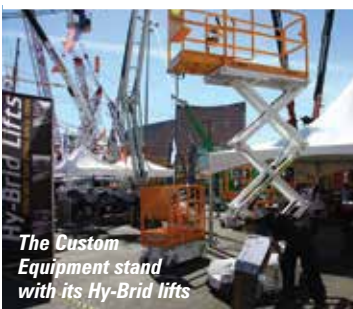
Probably the biggest articulated trailer platform at the show - the 65ft Haulotte 6543A



The Manitowoc MLC650 equipped with the VPC-MAX attachment seen for the first time at a trade show



Comansa showed the LC310 luffer with capacities up to 24 tonnes and jib lengths to 60 metres



The Custom Equipment stand with its Hy-Brid lifts



Xtreme XR7038 with a 31.7 tonne capacity



Teupen was showing its TC69A with aluminium boom and 46,000V insulated basket



Sennebogen was out in force but with material handlers rather than cranes



Potain HUP 40-30



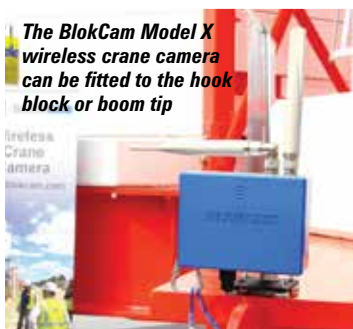
Two of JLGs new scissors - the 1532R and the 4045R



Skyjack Accessoryzers pipe carrier



Effer 505-6S



The BlokCam Model X wireless crane camera can be fitted to the hook block or boom tip



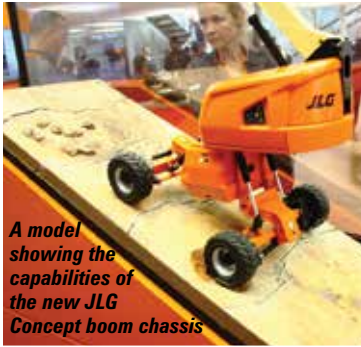
IPAFs lift safety zone



The prototype all-electric Snorkel S3019E 7.6 metre working height slab scissor with sunken scissor stack reducing step-in height



PowerLift personnel lift from ReechCraft



A model showing the capabilities of the new JLG Concept boom chassis



Demag AC 220-5 five axle AT crane



Enerpac gantries



Prinroth Panther T8 tracked carrier - fitted with an Atlas loader crane - has a 7.2 tonne payload and a 10 km per hour maximum speed



SkidCrane is a crane attachment for skid steer loaders that can lift 2,267kg to 13.1 metres



Bluelift 26 metre B85 Combo with lithium ion combined with gas or diesel engine



A JCB scissor and Teleskid during the 'dancing digger' display



Bocker distributor Century Elevators was showing a range of equipment



Manitowoc showed its new version of the 300 tonne MLC300 with fixed two-position counterweight tray



Bailey Cranes stand



Manitec M150 15 ton pick and carry crane with 19.1 metre boom



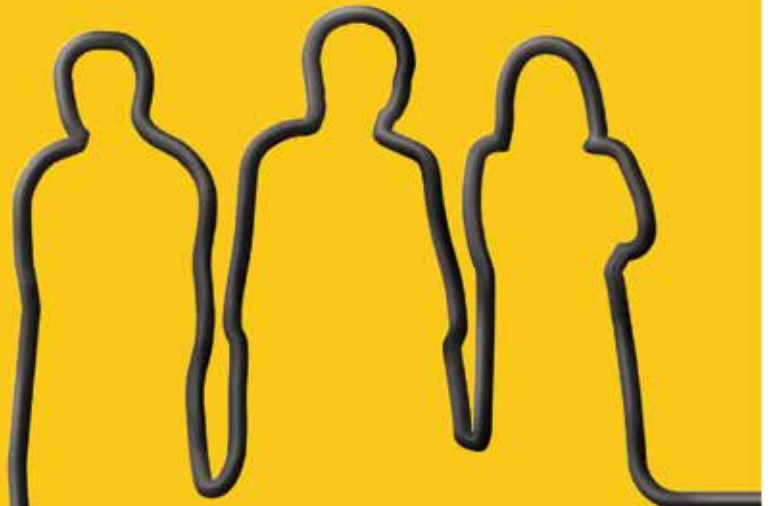
Part of the Merlo telehandlers stand



Giant 4548 Tendo HD with 4.8 metre lift height and 2.1 tonne maximum lift capacity

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Battery charge

In spite the growth in alternative deep cycle batteries - AGM (Absorbed Glass Mat), Gel and more recently lithium - the traditional lead-acid battery is still the main source of power for aerial work platforms and industrial cranes. The main reason for this is the positive combination of cost and performance - it still offers a measurably better battery life than a Gel or AGM battery (although these are improving) while being considerably cheaper and widely available. The down side of the wet lead acid battery is that it requires a great deal more care maintenance and can deteriorate very quickly if not looked after.

The lead-acid battery dates back more than 150 years to 1859 to be precise - when it was invented by French physicist Gaston Planté. Although the basic battery technology remains the same there have obviously been improvements in materials, design and manufacturing since then, but the essential chemistry has not changed much since.

The lead-acid battery's ability to supply high surge currents coupled with low cost has always made it ideal for use in starting engines. However in order to do this well, it needs a large number of thin plates for maximum surface area and maximum current output - not at all good for deep discharge applications such as powering equipment all day. Starter batteries are lighter in weight than deep cycle batteries of the same dimensions because the cell plates do not extend all the way

to the bottom of the battery case, allowing any lead shed from the plates can collect under the cells without touching the plates which leads to cell failure.

Deep cycle batteries on the other hand use fewer thicker plates that deliver less peak current, but can withstand frequent deep but steady discharges and regular recharging. However because of the way they are made they do need looking after and can suffer if mistreated. A badly maintained battery can fail within a year, while well maintained battery packs have been known to last more than 10 years in a typical scissor lift application - although three to five years is more typical.

Many battery companies have spent a lot of time and effort trying to educate battery users of the importance of good maintenance - outlining what and what not to do and dispelling some of the 'old



A heavy-duty battery discharge meter.



wives' tales'. Battery maintenance practices in the powered access business have improved significantly in the 10 years or so that we have been publishing our regular feature on the subject, but it still has some way to go. However many battery maintenance issues do not lie with rental companies but with end users who are often guilty of over or under charging, through the use of long extension leads or not checking the electrolyte level on a regular basis. And if they ever top-up the electrolyte level may use tap water or even water from a puddle. All can destroy a battery. The problem is they have no sense of ownership.

Battery maintenance hints

Here are some tips to keep a battery in top condition. Obviously Gel and AGM batteries are sealed and do not need any checking of the electrolyte level.

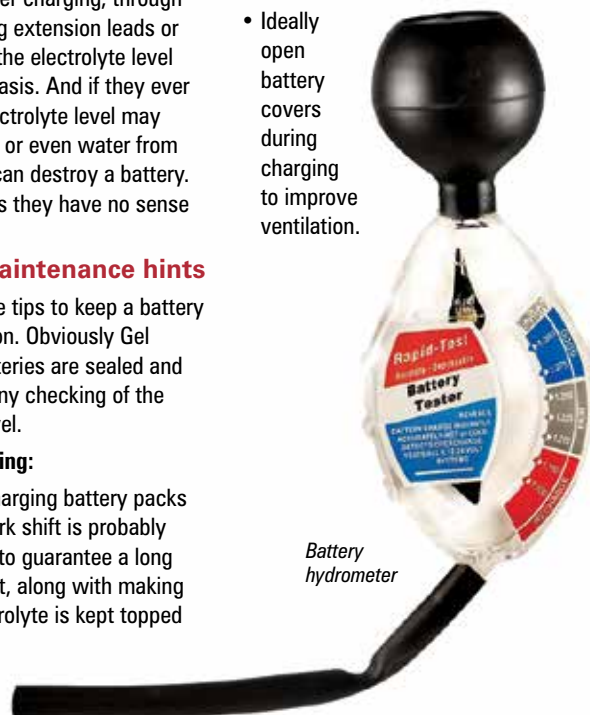
Proper charging:

Properly re-charging battery packs after each work shift is probably the best way to guarantee a long trouble free lift, along with making sure the electrolyte is kept topped up of course.

- Use as short a connection to the mains outlet as possible
- Before placing on charge ensure everything that draws power has been switched off
- Always charge in a well-ventilated area as batteries give off hydrogen gas as well as oxygen. Ensure there are no naked flames or sparks in the vicinity.
- Ideally open battery covers during charging to improve ventilation.



Testing the specific gravity with a hydrometer



Battery hydrometer

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Battery electrolyte testing

Battery testing is an emotive topic within the access industry and there are various interpretations on how a wet lead-acid battery should be tested to ensure a prolonged life cycle or to establish if it is still useable. Incorrect testing may mean a good battery ends up in the scrap bin.

The hydrometer test is the best indication of battery condition - but is ineffective on flat batteries. For an accurate condition reading, the battery should be no more than 25 percent discharged - in other words fully charged. To do this first check the electrolyte level which should just be covering the top of the plates. Top up with de-ionised water if necessary and place the machine on charge for a full charge cycle. Operate the machine for a short period to even the cell voltages before testing.

To test, first clean the battery tops and remove. Place the flexible end of the hydrometer into the battery cell and gently squeeze the bulb, raising the electrolyte from the battery and up the hydrometer sleeve. This should cause the bubble within the hydrometer to rise. Release the pressure on the bubble and after a few seconds read the level of the electrolyte against the scale.

The difference between each cell should not be more than 0.005 or 50 gravity points as this would indicate a failing cell and reduce battery performance.

Testing the overall condition

The heavy-duty discharge test is carried out to establish the overall condition of the battery using one of the numerous heavy-duty battery discharge meters available on the market from around £25. Before carrying out the test the battery must have the correct electrolyte level, be fully charged with a specific gravity of 1.255 – 1.280 (see above) and check that there is no bulging/distortion of the battery walls.

Following the meter manufacturer's instructions attach the red/positive and black/negative leads from the tester to the battery, select the correct battery voltage and push the test button for the specified time (usually 10 seconds).

If the reading of 13.5 for a 12 volt battery and 6.1 for a six volt is maintained over 10 seconds the battery is in good condition.

A slowly falling reading over 10 seconds indicates the battery is failing. A rapidly falling reading in less than 10 seconds suggests that the battery is beyond its service life and needs to be replaced.

Testing batteries not fully charged

The volt metre test can be used on batteries that are not fully charged. To do this test first disconnect the battery and use a test meter to check the individual battery voltage.

If all batteries in a four, six volt battery pack for example are equal



but measure 5.20 volts or less then they are flat and require recharging. If one battery is lower than the others i.e. three batteries are 6.1 volts and one is 5.4 volts, then it suggests that the lower voltage battery is failing.

If the platform has been through its charge cycle it is best to operate it for a few minutes and then let it rest. This will allow the surface charge to dissipate otherwise a false high reading will be recorded.

Make sure of a good terminal connection

The battery terminal connection is critical for full battery pack performance. Often however this is overlooked leading to poor performance, arcing and corrosion. For optimum performance check that the correct size terminal is used and is securely crimped to the battery cable. Make sure the terminals are correctly tightened including the earth from the battery to chassis or motor controller. Check the Anderson power plugs for integrity and fit and make sure all terminals and connections are clean and free of corrosion. Terminals can be coated with a variety of proprietary substances or a petroleum-based gel - but use just enough to protect the terminal as it can also attract dirt and debris.

If the terminals are heavily corroded, hot water can be used to wash away the corrosion but any overspill has been disposed of under current waste regulations. Do not wash away the corrosion unless the cell caps are in place and you can control the spillage i.e. don't fill the platform's battery compartment with contaminated water as it is corrosive. A wire brush may also be used - again wear the correct safety/protection equipment.

It may be stating the obvious but always make sure that batteries are correctly fitted to the machine and all locating clamps are in place and tight.

Corroded battery terminal



A bulging positive is a sign of sulphation and the battery is useless

Top up with de-ionised water



Should I change the battery?

After going through the above tests and it would appear that one of the batteries has a failing cell and requires replacement you should consider several things including the age of the machine, whether the battery pack is original and whether one or more batteries have been changed previously.

With these in mind the question is do you replace the whole pack or just the failing battery?

If the battery pack is old opinion suggests you should change all of the batteries in the pack. After a short period of charge and discharge the new batteries will

| Capacity | Specific Gravity | Volts |
|---------------------|------------------|-------------|
| 100 percent charged | 1.255 - 1.280 | 5.95 - 6.10 |
| 50 percent charged | 1.200 - 1.210 | 5.6 |
| Discharged | 1.140 - 1.165 | 5.2 - 5.3 |



Make sure terminals are clean

be conditioned and give optimum performance. If maintained correctly they will have a longer life span. If the pack is made up of different batteries again change for a new matched set.

If on the other hand the battery pack is relatively new and uniform but has a failing battery, fitting one new battery will get the machine running and will of course be the cheaper option. However the new battery will never reach its optimum



A classic battery pack

performance - it will be brought down to the levels of the other batteries in the pack which may lead to a shortened life for the new battery. Often when you change one battery it is not long before others in the pack need to be changed.

More than the price of a battery

Also consider that the battery price is only a small part of the cost, equally important is the labour to carry out the work and the downtime while the machine is not available for use or rent. This cost is magnified significantly if the battery pack has to be replaced in the field, and in this case you will need to add the intangible cost of upsetting a customer.

Choosing a replacement battery

When it is time to purchase a new set of batteries always consider the following basics first:

- Is the new battery the same Amp Hour rating?
- Are the dimensions the same - i.e. will it fit in the compartment and be held by the battery clamps?



US Batteries in a Skyjack mast lift

- Is the new battery the same weight as the battery originally supplied by the manufacturer? This is important for the overall stability of the machine as the batteries are part of the machines counterweight. Fitting lighter batteries may be a contributing factor to a machine tip-over.

manufacturers do not always list the same testing criteria, making comparisons difficult. For example trying to compare two similar batteries that state different battery cycle life ratings because these are often based on selective data from the manufacturer.

It also makes sense to compare products and shop for the best value. However, as there are so many batteries available, it is very important to make sure any comparison is made with batteries of the same type, voltage output and capacity rating. This is where it can get confusing.

The information on the labels can sometimes be confusing as



A MEC 1332 scissor battery tray

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Comparing depth of discharge

Typically, cycle life ratings are determined on the Depth Of Discharge (DOD) and the percentage of amp hour (Ah) capacity discharged from the battery on each discharge. Most battery manufacturers recommend a 50 percent Depth Of Discharge for optimum cycle life, versus operating time. The problem is that cycle life can be quoted at a wide variety of Depth of Discharge ratings which can result showing a longer cycle life for one battery type over another

making an inaccurate comparison. Therefore, when comparing cycle life ratings, make sure they are rated using the same DOD.

Amp hour ratings

Amp hour ratings are often used to compare similar lead-acid batteries but can also be misleading. For example, a six volt battery may list its Ah rating as 200 at the '20 hour rate'. This means that the battery will provide 10 amps of current for 20 hours, until the battery is fully discharged or 'spent'.

A common mistake however is



Airo X19 scissor charger and battery pack

assuming that a battery with a 200 Ah rating will provide 200 Ah at all discharge rates. This is where Peukert's Law comes into play which states that the greater the discharge rate, the lower the delivered capacity. So, if the same 200 Ah battery is fully discharged at 30 amps over five hours, it will deliver only about 150 Ah. Also, the relationship between battery capacity and the rate of discharge is not linear, so it is important to find the rated capacity at the discharge rate for the application where the battery is to be used. Most battery manufacturers publish tables of ratings versus discharge rate or discharge time for each battery type.

Operating time ratings

Even though manufacturers list various Ah ratings, it is often difficult to know which ones to use in order to make the right comparison for the application. It may be more accurate to use the operating time ratings in minutes that can typically be found on the battery manufacturer's specification sheets and websites. Comparing the rated operating time in minutes, provides a better idea of the performance that can be expected when comparing two similar batteries. These operating time ratings are based on the actual discharge currents seen in typical applications and may be more applicable than the Ah ratings.



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Back in Amsterdam

C&A

APEX 2017

The access equipment exhibition Apex is returning to Amsterdam for its second outing in the capital of the Netherlands however the dates have changed again. The show - for many years held in Maastricht in September - moved to Amsterdam in June 2014. The event was considered enough of a success to keep it there, but this time the organisers have changed the date moving to early May.

Apex 2017 promises to be a good show with the European economy picking-up and plenty of new products on the horizon.

The industry is also seeing a wide range of new developments from improved electronics, highly efficient direct electric drive and hybrid power systems, to new on-board diagnostics and telematics and entirely new models. The following is a brief introduction to some of the new products to expect and the crucial details should you be planning a visit. The show will be reviewed in more detail. The Vertikal team will be out in force to report back both on-line and in the magazine so if you do take a trip to Amsterdam do make sure to stop by and see us.

Almac

Almac will show its new 27ft Bibi 1090 Evo tracked scissor lift with dynamic auto levelling and 10 metre working height. Launched at Conexpo the new model offers 20 degrees levelling longitudinally and 14 degrees side to side. Overall width is 1.4 metres. The company is also planning 33ft and 40ft versions and might just have them on the stand.



The JLG H800AJ

JLG

JLG has plenty of new products in the pipeline the key new product though is the 80ft true Hybrid articulated boom lift, the H800AJ also launched at Conexpo. The new model uses a small Kubota coupled with a powerful electric motor to boost power for steep slopes or challenging conditions.

The JLG 4045R



Also check out the new Rental series scissor lifts with a higher specification. The two models launched so far are a classic 19ft and 32ft models. JLG meanwhile announced details of two new R series of simplified scissor lifts - the 15ft 1532R and the 40ft 4045R. The 4045R will have indoor and outdoor approval, although elevated drive outdoors is limited to 28ft. It uses a heavy self-centering five stack scissor lift mechanism and heavy duty battery pack.



The Almac Bibi 1090 Evo

The company has also updated its 600 series straight booms with the 60ft 600S with dual 272kg and 453kg platform capacities and 66ft 660SJ telescopic boom lift with 250 and 340kg. The new booms are faster and lighter than their predecessors and feature an all-new SkyGuard secondary guarding system and 12 year replacement cycles on boom telescope cables. Also look out for a new secondary guarding system.

Genie

The big news at Genie also relates to big booms. The company launched the 105ft SX-105 XC, 125ft SX-125XC and SX-135XC telescopics at Conexpo, all with dual platform capacities - 350kg unrestricted and 454kg with restricted work envelope. All the

new booms, along with a revamped ZX-135/70 articulated boom, are mounted on the new Mini X chassis. The company will also show its new secondary guarding systems and platform overload sensor that is fully enclosed and has no moving parts. Also expect to see the company's 60 and 33ft electric drive boom lifts.

Haulotte

Haulotte has also launched two new big booms - the 80ft HA26RTJ and



The Genie SX-125XC



The Haulotte Star 20 AC



Haulotte HA26RTJ

the 85ft HT28RTJ. Both feature a host of new technology including Activ Lighting, Stop Emissions, Activ Screen and an updated secondary guarding system. But perhaps even more interesting is the new 20ft Star 20AC mast-type lift, the first of its type to offer more than 16ft platform height, but not yet available in Europe.

Omme

Omme Lift will show its 13 metre 1300E telescopic trailer lift with either AC mains power or the EB battery version. Based on the 1250 it is more compact and offers greater outreach at nine metres. Unveiled at Bauma last year it is now ready to ship. The company will also show its 17 metre 1700 articulated trailer lift together with a Hybrid version of its 18.25 metre spider lift the 18.40RXJ.

Rothlehner

The highlight of the Rothlehner stand will be the 30 metre Denka DL30 trailer lift, the updated version of the unit first seen at Bauma last year.



The Denka DL30

Bronto

The main exhibit on the Bronto stand will be the recently launched 70 metre S70XR - the largest platform with an overall length of less than 12 metres, yet has 36 metres of outreach and a 600kg platform capacity. The unit is mounted on a four axle 32 tonne chassis and carries an EU-wide Type Approval.



The compact Bronto S70XR

Multitel Pagliero

Multitel will show a range of its latest truck mounted models in the outside area including the 22 metre MJ226 with telescopic jib and 250kg platform capacity, the 20 metre MT204 with 300kg platform capacity.



The Omme 1300E is now in production

Klubb

The French vehicle mounted lift manufacturer will unveil Klubb redesigned versions of the Comilev Xtenso specialist truck mounted range with working heights ranging from 18 to 25 metres and outreaches of 14 to 18 metres with 280kg platform capacities. On the stand will be an Xtenso 4 mounted on a Renault Middlum truck, with a 21 metre working height and 16 metre outreach designed for utility applications. It will also show a 9.1 metre K21 compact van mounted lift on a 2.9 tonne Peugeot Expert with 5.8 metres of outreach



The Xtenso gets the Klubb treatment

designed for work in inner city or congested urban areas.

The Multitel MJ226





The new Palfinger P280B

Palfinger

Expect the new 28 metre P280B telescopic on a 3.5 tonne Euro 6 Mercedes chassis, perhaps another spider lift in its new product range and a big truck mount in the form of the 75 metre P750 NX on a four axle chassis.

CTE

With two stands opposite each other CTE is treating APEX seriously. Expect the new 16.6 metre B-LIFT 17E with its 11.3 metres of outreach, 250kg platform capacity and heavy-duty battery pack that recharges with PTO while travelling. The company will also demonstrate its S3 Smart Stability System automatic outrigger set-up system which senses the footprint and selects the safe working envelope. The company will also launch the new 14.7 metre pick-up mounted Zed 15.2 with 6.3 metres outreach and 230kg platform capacity on Isuzu D-MAX 4x4 or Toyota Hylux 4x4.



Holland Lift

ATN

ATN will have its largest mast lift, the 12 metre Piaf 12E with telescopic jib, as well as the 46ft Zebra 16 Rough Terrain boom lift with levelling outriggers, an increasingly popular option. It may also be showing the 23 metre Mygale 23 spider lift.



ATN Piaf 12E

Dingli Magni booms

Unfortunately the new Magni designed European specification boom lifts will not be on show but there will be a range of electric scissors. The booms shown as prototypes at Bauma China in November, should be in production later this year.

Dingli Europe booms lifts will be available by year end.



Ruthmann

Ruthmann and Time International will be sharing the largest stand in the outside area of the show. It will be used to launch its new 25 metre TBR 250 announced at an open



The new CTE Zed 15.2 pick up mounted lift

Holland Lift

On home soil Holland Lift tends to focus heavily on APEX and will show a number of models. Expect some last minute surprises and also the 46ft HL160 which is available with overall widths of 1.2, 1.8, 2.0 and 2.4 metres. Also the HL 190 with similar overall widths and power sources.



The Ruthmann TBR 250

ATN

MYGALE 23

Built for Rental

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- ▷ Horizontal reach : 11 m
- ▷ Up and over height : 11,25 m
- ▷ Lift capacity : 230 kg
- ▷ LCD diagnostic console

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The full list of attendees with stand numbers

| Company | Stand | Company | Stand |
|------------------------|-------|-------------------------------|-------|
| Accella Tyre Fill | 705 | KHL | 300 |
| AFI Resale | 130 | Klubb | 1380 |
| Airo Tigieffe | 610 | Kors Hoogwerksystemen | 1120 |
| Alimak Hek | 160 | Leguan | 1180 |
| Almac | 1110 | Lingong Jinan | 420 |
| Alp Lift | 830 | Maeda | 750 |
| Altrex | 230 | Magni Telehandlers | 1210 |
| Amer | 180 | Manitou | 330 |
| ATN | 210 | Mantall | 730 |
| Avant Tecno | 1180 | Meta Hydraulic | 190 |
| Battery Supplies | 565 | Moba Mobile Automation | 170 |
| Big Astor - Genius | 540 | Multitel Pagliero | 1160 |
| Böcker | 1115 | Noblelift Equipment | 630 |
| Bravi | 260 | OEM Controls | 590 |
| Brevini | 700 | Oil & Steel | 675 |
| Bronto Skylift | 1130 | Omme Lift | 1250 |
| Catamount | 395 | OTR Wheel Engineering | 270 |
| C.M.C. | 1150 | Palazzani | 1270 |
| CO.ME.T. | 430 | Palfinger Platforms | 1030 |
| Collé Rental & Sales | 1210 | Parker-Helac | 110 |
| CTE | 1260 | PB Lifttechnik | 295 |
| Dinolift | 1120 | PG Trionic | 110 |
| Dingli | 530 | Platform Basket | 650 |
| DIS Sensors | 120 | Posi + | 1370 |
| Eastern Mastec | 850 | Power Towers/JLG | 320 |
| Easy Lift | 1290 | PowerFirst Technology | 860 |
| Elsisan Makine Sanayi | 620 | Raventos y Bernad Componentes | 490 |
| EuroGate International | 740 | Ravioli | 110 |
| Europelift | 655 | Rima | 600 |
| Exmile Special Tyre | 535 | Riwal | 460 |
| Faraone | 670 | Rothlehner | 640 |
| France Elévateur | 1370 | Ruthmann | 1230 |
| Garos Capteurs | 110 | SME | 110 |
| Genie | 450 | Skyjack | 510 |
| GSR | 240 | Snorkel | 570 |
| Gunco | 470 | Socage | 1170 |
| Sivge | 150 | Spring | 820 |
| Haulotte | 710 | Sumner | 870 |
| Hematec | 735 | Talleres Velilla | 455 |
| Paus | 1390 | TCA Lift | 1050 |
| Hinowa | 1000 | Teupen | 1100 |
| Hoeflon | 840 | TGB | 140 |
| Holland Lift | 550 | Time International | 1230 |
| Hubei Goman | 865 | Trojan Battery | 275 |
| Sinoboom | 560 | TVH | 470 |
| Imer | 370 | Veldhuizen | 810 |
| Inter Control | 120 | Vertikal Press | 500 |
| IPAF | 200 | Vertimac | 250 |
| Jekko | 770 | Waco Boom | 400 |
| JLG | 310 | Wetac Motive Power | 625 |

day late last year and will shortly be available for delivery. The company is also likely to show two or three models from the Bluelift/Ruthmann spider lift range.

Skyjack

It is unlikely that the company will manage to get one of its new the SJ85AJ 85ft articulated boom lifts to the show given the demands for testing prior to production getting underway but... it is possible. Otherwise expect a selection of its increasingly wide range of scissor and boom lifts.



The Skyjack SJ85AJ

Teupen

Teupen has been updating and improving its Leo range of spider lifts and will show the latest models on the stand. The Puma unveiled at Bauma last year is unlikely to be available as production is booked out until later this year.



The new Teupen Leo 31T

Bravi

The Italian company will show its key models including the Leonardo HD which has sold well in the Netherlands. It might just have something new - so well worth stopping by and checking it out.



Bravi

Socage

Socage will show the 75 metre forSte 75TJJ on a four axle 32 tonne chassis with 40 metres of outreach, 600kg platform capacity and 360 degrees of platform rotation. A key feature however will be its new patented 'Convertible basket' a 1.3 metre deep by 2.3 to 3.5 metre telescopic platform which will be available on all models from 35



The Socage 75TJJ

metres. Also check its VT-VTJ van mounted lifts and the 12 metre forSte 12VT which does not require outriggers.

Co.Me.T.

We are not sure yet what Co.Me.T will launch at the show but you can expect some new faces leading the sales team in the form of Gabriele Valli looking for a new challenge with plans to step up overseas sales of the company's highly innovative truck mounted lifts.



Snorkel

Snorkel has lots going on from its first telehandler to the new 16ft TM16E mast type platform and new boom lifts. Look out also for its new slab electric scissor lifts.



The Snorkel TM16E

Hinowa

Hinowa will be on two stands - in orange and cream on the JLG stand and bright red on its own stand where it will unveil the new 13 metre 13.70.



Hinowa 13.70

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Silverston Wing

Vertikal Days - the largest European crane, access and telehandler event of 2017 - will be held at a new venue with more space and greater potential for expansion. Vertikal Days 2017 will take place on May 24th and 25th in the centre of the Formula One track at Silverstone, Northamptonshire - the home of British Motor Racing.



Silverstone home of British Motor Racing

Silverstone is conveniently situated right in the heart of England around 90 minutes north of central London and 60 minutes south of Birmingham. Road access is exceptionally easy along the A43 dual carriageway from either the M40 or M1. The venue typically handles more than 100,000 visitors for the British Formula One and Moto GP so the 2,000 a day for Vertikal Days should be a breeze.

Nearby towns with rail connections include Northampton, Milton Keynes and Banbury while nearby airports include Luton, Birmingham, East Midlands, Stansted and London Heathrow.

Biggest show ever

The show is almost fully booked and promises to be the largest

Vertikal Days so far. Being the only dedicated lifting equipment show this year, a good number of new product launches are expected along with a variety of innovations from component suppliers and service companies.

A full guide and preview to the event will be published in the next issue of the magazine, but in the meantime here are a few glimpses of new products that we already know about.

Cranes

Liebherr will use Vertikal Days for the European launch of its new 90 tonne four axle LTM 1090 4.2 All Terrain crane which was unveiled at Conexpo. It features a 60 metre main boom, variable counterweight and can be configured for 10 tonne axle loadings. Also on display will be the 100th 60 tonne LTM 1060 to be delivered in the UK.



Magni RTH 5.39S



liebherr LTM1090-4.2

Always offering something different Spierings will show its latest new model, the four axle SK597-AT4 mobile self-erecting tower crane with 48 metre jib with a 1,700kg jib tip capacity and luffing range of 15, 30 or 45 degrees. The carrier has a new DAF Euro 6 engine, disc brakes and has 12 tonne axle loads fully equipped.

City Lifting - one of the founding Vertikal Days exhibitors - will use the event with partner Linden Comansa to unveil its all-new crane cab mounted on a 16LC260 tower crane. Deliveries of the new cab will begin shipping with cranes from July.

Manitowoc plans to show several new models at Silverstone from the Potain and Grove product ranges, including the first UK appearance of the new Hup self-erecting tower crane line. Terex Cranes will be back with a number of new cranes



Jekko JF545





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Link-Belt TCC 1100



Snorkel TM16E



Holland Lift HL-220-E25

and will be looking for feedback on relaunch plans for its City-type All Terrain crane range which will kick off with the Demag AC45. The company has launched a recovery plan under new president Steve Filipov and has a great deal to talk about. Tadano, a founding exhibitor will have a wide selection of All Terrain cranes on the stand, including the recently revamped four axle ATF70G-4 and 100 tonne ATF 100G-4

If you are interested in spider cranes, Jekko will use Vertical Days for the UK launch of its all-new JF



ATN Pfaf 12E



Almac Bivi



Multitel MJ226



Genie SX-135XC



Ruthmann T750

545 articulated spider crane on the JT Cranes stand. Maeda and Unic will also be out in force making this the ideal place for spider crane shopping. When it comes to mini cranes there will also be new equipment from Reedyk along with Hoeflon, Valla, Galizia, Jekko and Ormig, many of them also showing pick & carry cranes, while Kranlyft will also highlight the latest Böcker aluminium cranes, including its spider crane offering.

Vertical Days is also the only opportunity this year to see the full range of Kato City-type All Terrain cranes at an exhibition. The European distributor Rivertek is back with a bigger stand than last year and will have the full model line-up on show.

Crawler cranes will also be well represented with Kobelco, back at the show along with Sennebogen and AGD which also represents Marchetti. While NRC will show has a new Hitachi Sumitomo SCX 800 on show together with a Link-Belt TCC1100 telescopic crawler.

Access Equipment

One of the most novel access industry stands will be JCB which announced in February its intention to become a full-line player in the market. The company will show several of its scissor lift models including the S1930, S2632, S4046 and S4550. Even more interesting will be the European launch of the manufacturer's first boom lifts.

Versalift will show the first 17 metre VDT170-F platform sold in the UK, mounted on a five tonne Mercedes Sprinter van. The company will also have a pick up mounted lift on display. Skyking will have a combination of products from the big Palfinger platforms to Easy Lift spiders and will launch the all-new Almac Bibi 1090 Evo with 10 metres working height and dynamic auto-levelling. Holland Lift is promising some interesting developments and will have a 2.5 metre wide

66ft HL220 D25 on display. Ruthmann is planning to show a 51 metre T510HF on two axles, the 3.5 tonne TB270+ and this will be the first chance to see its new Eco line RS200, developed from the RAM product line following its acquisition last year. Bronto is also planning to focus on the compact 70 metre S70XR, which has an overall length of under 12 metres, but will also have additional equipment and safety equipment on show. Truck mounted lift manufacturer GSR will have its own stand this year as it looks to further develop its market presence.

Vertikal Days will also be the first chance in the UK to see Teupen's new T telescopic spider lift range, represented by the 35 metre Leo35T. There is a chance that the company's radical 42 metre Puma will also make an appearance.

Skyjack will have its all-new 85ft SJ85AJ articulated boom lift on the stand which

offers a working height of almost 28 metres. Leguan will highlight its new 19 metre 190 spider lift. All the main spider lift manufacturers will be in attendance but this will be the first chance to see the all-new 13 metre Hinowa 13.70 spider lift as well as new products and development from CMC, Platform Basket and Dinolift which will show an updated version of its 66ft 220XSE, now available with levelling outriggers for working on slopes.

JLG has several new products including the 80ft H800AJ

articulated boom lift, with its new full Hybrid drive system. The company has also redesigned its 600 series of 60 and 66ft boom lifts with dual platform capacities and improved performance characteristics. Genie will focus on the new XC dual capacity range of boom lifts with the new Mini X chassis. The new chassis has also been added to the ZX135/70 to create a significantly narrower footprint for the 135ft articulated boom lift. It will also have its new secondary guarding system on show.



Bocker spider



Galizia G20 Electric



Kato City-type All Terrain



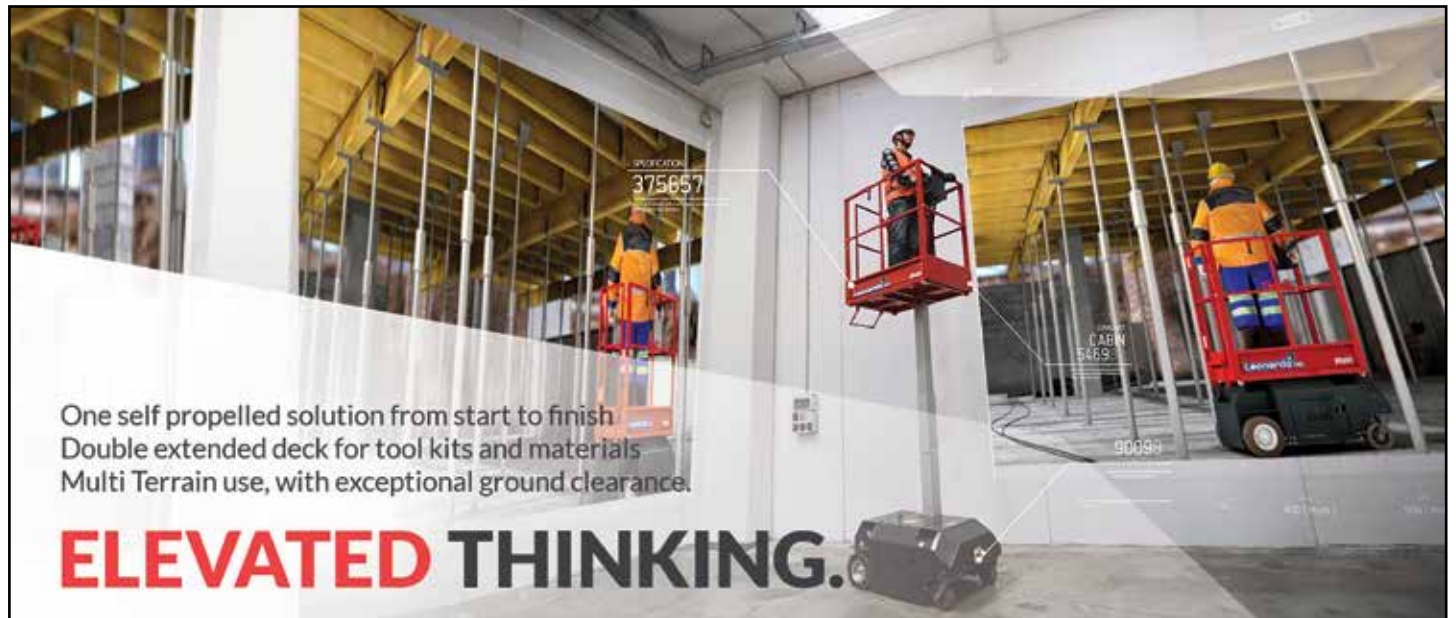
Potain Hup 40 30



Haulotte HT28

Manitou 100VJR

Skyjack SJ85 AJ



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Platform
Basket 18.90

Versalift 170F



JCB AJ50D

CPL Palfinger
pick-up

CMC S32



JLG-H800AJ-3

metre working height the 140T in Europe? It will also show the completely revamped 63ft HR21 4x4 articulated boom, with new controls and electronics on-board diagnostics, and restyled covers.

Finally Snorkel will have a range of new models on the stand including the new TM12E and TM16E mast-type lifts, new slab scissors and the updated Speed Level.

Telehandlers

When it comes to telehandlers the key players include JCB with the 540-180 and 525-60 model, GT Lifting Solutions with its Magni and Merlo Rotos and Manitou. Also check out Genie with its compact model and there is a chance Snorkel might manage to get its first telehandler onto the stand. Meanwhile JLG has announced some major changes to its European telehandler programme so this will be the ideal opportunity to stop by and catch up.

Haulotte will show its new booms including its new HT85RTJ and will be demonstrating its latest technology including the Activ Screen, Activ Lighting, Stop Emissions and updated Activ Shield Bar secondary guarding.

Niftylift will use the event to unveil a number of new products, including its first telescopic trailer lift, the TM40 in the US and with its 14.1



Manitou MRT 2550

JCB telehandler
540-180

Ancillary equipment and services

Moving inside this year the Market Place is even larger than before and includes a host of new, first-time exhibitors alongside the regulars. Products and services range from associations such as the CPA and IPAF to suppliers of software, training, components, tyres, outrigger mats, temporary trackways, batteries, insurance, electronics, finance, specialist oils, trailers, rigging gear, vacuum glass handling and safety equipment from companies such as TVH, Orlaco, IPS, Goldhofer, Andover Trailers, Glassboy, Smie, Rayco Wylie, Amer Parts, Span Set, A-Plant Training, Nolim, OTR, Modulift, Paragon Bank, Eve, Probst, InspHire, Point of Rental, FLG, Michelin, Trackunit, Lifting Gear UK, Mentor, Ainscough, Elebia, CGS, Mitas, Magnetek, Interpump Hydraulics, GB Lubricants and many others - all of which are related to the crane and access market so make sure you allow enough time to make the most of your visit and bring along relevant staff. Many of the ancillary suppliers will be located in the Marketplace pavilion which also hosts the main café - serving complimentary tea, coffee and pastries all day - while providing a good location for off-stand meetings and networking etc.....

Check out the full preview and guide

The new product overview above merely provides a small taste of some of the products and services on



show this year. In the next issue we will carry a 30 page pull-out guide to the event with far more detail on the products on display, including a full listing of exhibitors.

New venue but same popular formula

While Vertikal Days is being held at a new venue with plenty of changes and additions, the popular well-proven formula remains unchanged. Stands are simple and inexpensive and as always everyone coming through the gates has a direct interest in the lifting industry, manufacturing, working with or using lifting equipment for safe efficient working at height. As a result it is a great opportunity to network and make new contacts. Everyone in the aisles, on the stands or in the pavilions is a potential customer or supplier with a shared interest. Exhibitors have plenty of time to spend with visitors, either on their stands or in the many public areas, so don't be afraid to stop and talk to strangers.

The event will once again host several seminars, meetings and workshops, so make sure you take advantage of them, you never know what you might learn!

Catering and hospitality

This year's evening networking event will be held as usual on the Wednesday evening and will be held in the Silverstone 'Wing' above the Formula One pits.

Lunch and all refreshments are as usual included, with lunch provided each day from 12:30 - 14:30 in the catering pavilion in the crane area. This includes Barry's famous free-range hog roast, a barbecue and a sandwich bar. As usual, parking next to the event is free.

Show Information:

Venue:

Silverstone, Towcester, Northamptonshire, NN12 8TN

Dates/Times:

Wednesday 24th May 10am to 5.30pm and Thursday 25th May 10am to 4.30pm

Exhibitor Listing:

See www.vertikaldays.net

Rayco
Wylie
i4000

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Positive signs for rental

This year's Rental show - organised by the American Rental Association - was held in Orlando, Florida. Opening just a week before Conexpo in Las Vegas the mood was definitely upbeat with most exhibitors happy with the contacts made and deals done. The proximity of the two shows almost forced some small to medium sized exhibitors to choose which one of the two to attend. The verdict was almost unanimous - those attending one chose the Rental Show while larger players attended both.

The reason given for choosing the Rental show was past success with several spider lift manufacturers and dealers stating that the rental show always brought new business while Conexpo did not.

Among the larger companies the decision was which one to use for new product launches given the logistical challenge of moving equipment between the two locations. Skyjack was one of the few that decided to try and do just that - moving its new 85ft SJ85AJ boom lift from its launch in Orlando where it appeared alongside the new T12000 telehandler.

Haulotte on the other hand decided

to show its new 85ft HT28RTJ at Conexpo rather than the rental show based on the fact that most visitors to the ARA are more interested in smaller Equipment. It showed its new AC direct drive scissors and the new Star 6 and Star 6 Picking mast type lifts. The production version of its new 65ft 6543A trailer lift also made its debut.



The Haulotte stand



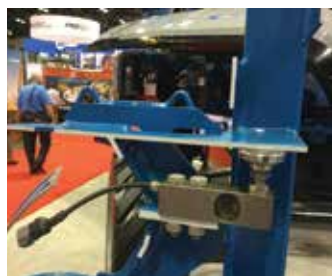
The Skyjack stand with new SJ85AJ boom lift - "just like the SJ63 but bigger"



The Genie stand



The JLG stand



A cutaway of Genie's new overload system has no moving parts.

This is also the reason that Genie decided to hold its new big booms for Conexpo, that and the lack of space available in the Orlando convention centre. The company focused its Orlando efforts on new innovations including its all-new secondary guarding system using a magnetically retained bright yellow cable that pulls out under pressure and is popped back to reset the machine. It also showed an ingenious new overload system for its big booms that has no moving parts, is highly accurate and easily recalibrated without weights.

JLG kept all nine new products for Las Vegas, focusing on its 19ft rental scissor lift and low level access range. At one point the company was the centre of attention from a large Herc Rentals delegation led by chief executive Larry Silber.

JCB - new to the aerial lift scene - showed its new scissor lift at the event and the British team spearheading the launch declared interest to be way beyond expectations. The company held the first appearance of its new boom lift to Conexpo.



JCB stand



JCB Access Team (L-R) Dave Hardwick, Richard Butler and Phil Graysmark



The new 14 metre Niftylift TM40/140T - Nifty's first telescopic

Niftylift - always a big exhibitor at the ARA - decided against attending Conexpo and used the Orlando event to show the production version its 14.1 metre TM40 - the 140-T in Europe? The company has made substantial changes after showing it as a concept at last year's Rental Show. It has already booked orders both in the US and Europe with strong interest from the Nordic region.

The company also unveiled an updated version of the popular HR21 4x4. More than just a simple upgrade the control system has been entirely updated with on-board diagnostics added following increased customer demand. The new machine is also visibly changed with new lower profile covers and a new all-green and black livery. The Hybrid version will follow shortly possibly with a Vertikal Days launch. The company is also planning to host a major customer and dealer launch event in the days before Vertikal Days thus the timing of Conexpo did not really suit.



The revamped Nifty HR21 4x4



Snorkel's very first self-propelled boom lift

Snorkel had major stands at both events and showed the production model of the TM12E and a new range of six material lifts made for it by LiftSmart. The highlight of the booth though was the very first self-propelled Snorkel boom lift ever built, lovingly restored with original parts and in the original Snorkel colours. Snorkel founder Art Moore, 92, was also on hand to sign copies of his book.

MEC attended both shows and had a very successful launch for its new slab electric scissor lifts, designed in-house but built in China by Dingli with exclusive MEC features. The company also unveiled a new secondary guarding system for its 60ft boom lifts which can



The new MEC secondary guarding system

also be used with its scissor lifts. The design uses two photoelectric conical beams to create a protective screen behind the operator with a car reverse alarm-type warning which then cut-outs without any input from the operator. An override switch allows the operator to move closer or between obstacles.

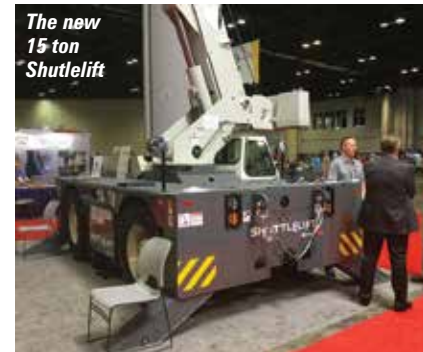
Looking at some of the other exhibits, one surprise was a new, heavy-duty industrial telehandler from Landoll. The 18 tonne capacity PT40 can take its full load to its full height of six metres, and 4.5 tonnes to three metres to the front. A crane jib extends the lift height to 8.3 metres with a capacity of 17.7 tonnes. With boom retracted it can handle 2.3 tonnes at an a maximum outreach of six metres.



The new Landoll PT40 industrial telehandler

With hydrostatic drive, counter rotating front wheels and 90 degree rear steer the machine can almost turn on the spot. The first machine is propane powered but a battery electric model is possible. The company is also currently testing for CE certification.

On the crane side Manitowoc launched a new 15 ton Shuttlelift carry deck crane, while its more construction orientated product launches were held for Conexpo. The following photo tour will give you an idea of the some of the other products on show and a further selection can be viewed on Vertikal.net. Put Rental Show in the news search box.



The new 15 ton Shuttlelift



The new 45ft MEC 4555 slab electric scissor



IPAF on the Reachmaster stand

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JMG/Jekko with Fascan



Custom Equipment sales are up 50 percent on the year with the 1230E particularly hot



ReachMaster attended both shows but had to split equipment. The Almac attracted constant attention



CMC dealer All Access Equipment is going from strength to strength with lithium battery uptake high



Tracked Lifts celebrated 10 years as Omme and Platform Basket dealer



Dinolift is looking to increase interest in its big trailer lifts in the USA



Fabrication company Forever ODM showed a 32ft scissor lift with a five metre cantilever deck, with plans for a 45ft with 6.6 metres outreach. Overall weight is 3,500kg



InspHire operates from the UK but is finding increased interest for its more European/international dedicated rental software



The Rental show is always good for software companies with 50 now registered. Point of Rental with its Syrinx system attracted the most interest



Merlo is making solid progress in North America now with both straight frames and Rotos



LiftSmart launched a new lightweight steel frame material lift with up to 2.4 metres lifts height and 750lbs capacity



Teupen is gaining strength and had hoped to have the Puma at Conexpo but it is sold out



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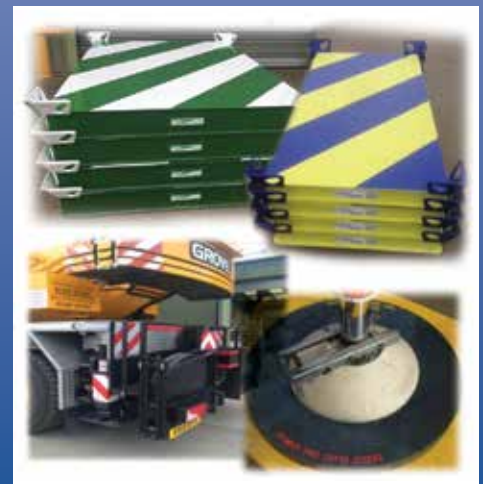
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New launches at Executive Hire Show

Last month the Ricoh Arena in Coventry, UK took a break from hosting sport and music events to accommodate the Executive Hire Show, with 190 exhibitors and almost 2,000 visitors from the UK rental industry. The following are highlights of some of the new products and services in the lifting equipment sector.

Manitou launched its 4.3 metre/ two tonne MT 420 super compact telehandler in the UK. Also on show was the 12 metre working height Man'Go 12 articulated boom lift shown at Vertikal Days last year.

Hird launched Wienold's new 750kg capacity MFC 750/K 650mm wide mini floor crane which has an overall length of 1.8 metres and a

maximum hook height of just over three metres.

Coming right after the launch of its new Access business JCB showed two of its new scissor lifts, the 19ft S1930E and 20ft S2030E rated for indoor use only.

The dates for the next Executive Hire Show are February 7th and 8th 2018.



Manitou's new compact telehandler - the MT 420



Sumner Manufacturing is under new ownership



Manitou's Steve Smith with the 33ft Man'Go 12 articulated boom lift



Werner/BoSS unveiled two new mobile scaffold towers, one with a 1.8 metre cantilever and a bridge scaffold, both with platform heights of 2.2 to 6.2 metres



Snorkel highlighted its 10ft S3010E micro self-propelled scissor lift



Phil Graysmark of JCB with the 19ft S1930E and 20ft S2030E scissor lifts



Hird's new sales executive is British world champion bodybuilder Becky Maughan



The Wienold MFC 750/K



Syrinx Point of Rental showed its new operator app

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Apprenticeship award for A-Plant

UK-based rental company A-Plant has made it into the country's Top 100 Apprenticeship Employer List. The company established its apprenticeship programme in 2005 and now has 150 apprentices out of a total of 3,300 employees. Last year it received around 5,000 applications.

Head of training Bob Harper said: "It is a huge honour to be recognised nationally as a leading light in the development of apprentices. They play a vital role at A-Plant, helping us plan for the future, providing the right skill set to support the business as it grows."

Four metre fall cost £400,000

UK contractor Kier Construction has been fined £400,000 plus costs of £1,534 after employee Jair Morales fell from a height of almost four metres, while covering holes in the third floor of the building with plywood panels. While doing so he fell through one of them to the floor below, sustaining fractures to his pelvis and arm. An investigation found that Kier failed to ensure the work was properly planned or carried out in a safe manner.



HSE inspector Owen Rowley said: "This incident could have been a lot worse. The system that Kier Construction has in place to control the risk from installing the protection for openings was not implemented on site, ultimately resulting in the accident."

Suspended sentence for scaffolder

UK scaffolder Mark Kinsley has been fined £1,400 plus costs of £1,648, and sentenced to 16 weeks in jail, suspended for 12 months after a scaffold collapsed at a Co-op store in Loggerheads. Kinsley, a sole trader, erected the scaffold with two employees in November 2015, but failed to design the scaffold correctly or ensure that it was tied to the building in any way. Three weeks later it collapsed into a car park. An investigation confirmed that Kinsley had not properly designed or erected the scaffold and as a result put members of the public and workers at risk.

HSE inspector Katherine Blunt said: "This was a very serious incident and it is fortunate nobody was injured as a result. The case highlights the importance of following industry guidance and design and erect scaffolding in a safe manner, which does not raise risk to members of the public and those using the scaffold."

Fall costs decking company £105,000

UK-based Structural Metal Decks has been fined £105,000 after an employee was left paralysed following an accident at a building site in Kilsyth, Scotland.

The company had been contracted by John Graham Construction to lay metal decking at a new health centre. In April 2015, a scaffolder moving components stood on a section of the decking, which gave way causing him to fall over four metres to the ground, suffering injuries to his spinal cord. He is now paralysed from the neck down. An investigation found the decking sheets had not been secured properly and access to the first level was not adequately controlled.

HSE inspector Graeme McMinn said: "This is a tragic incident, which has had a devastating effect on a young man's life. The accident could have been avoided if the Structural Metal Decks had taken appropriate safety precautions and ensured the decking sheets were properly secured."

Mammoet Korea trains clients

Mammoet has developed a new course entitled **Engineered Heavy Lift & Transport Academy** to share heavy lifting and transport expertise with engineering procurement and construction companies and owners of industrial plants. Among the 150 attendees at the first three-day course were delegates from Daelim, Hyundai, SK, Panthos and Samsung. One attendee commented: "This is the first time something like this has been offered to us, it has helped increase our understanding of what is actually involved in mobilising large construction equipment."

Mammoet Korea managing director Chong Kook Cho added: "Opportunities can be identified and harnessed when information and knowledge are shared. We believe by sharing our expertise we create a better, mutual understanding with our partners and clients, helping them attain new levels in quality, efficiency and safety. Most importantly, it helps us to better understand our client's needs and how we can best serve them."



Who trained them then?



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2016/17 review

ALLMI has reported yet another year of significant growth and progress, with a further rise in membership and a record year for training activity, along with developments on a number of project related fronts.

Chief executive Tom Wakefield said: "We are extremely pleased with the 2016/17 financial year results, as well as the level of positive and high-profile activity we have been engaged in during the period. Demand has risen for all of our lifting team related training courses, and an increasing number of companies are recognising the value of being part of the ALLMI membership."

Chairman, Mark Rigby, added: "As well as meeting the demands of our ongoing growth, we have taken significant steps forward in a number of areas, from strengthening our position in the construction sector by way of Build UK membership and CSCS approval, to the development of guidance documents and standards on a raft of issues affecting lorry loaders. We have also made excellent progress on the ALLMI smartphone app which is currently out for final-stage beta testing, as well as a host of other IT related projects that will benefit members and training providers, and will come to fruition in 2017. In addition, we have new faces on the ALLMI board and have further developed the association's committee structure, all of which helps to improve the flow of information and expertise coming from within the membership, standing us in good stead going forward. We would encourage anyone interested in training or membership, or requiring general assistance with lorry loader related matters, to contact us."

ALLMI in the wind turbine sector

ALLMI's involvement in the wind turbine sector has been strengthened, with Boston Energy joining the association as a Service Company member.

Already a provider of ALLMI training, Boston Energy carries out assembly, commissioning, service and maintenance work on over 1800 wind turbines throughout Europe, many of which are fitted with loader cranes inside the turbine's nacelle. Jason Kennan, the company's technical & training manager said: "We pride ourselves in working to high standards, and a commitment to quality, health and safety throughout all aspects of the business. Joining ALLMI was, therefore, a natural progression for us, especially as we have been using the association's training programmes for some time.

Membership provides us with an excellent level of support and guidance, which assists us in keeping abreast of technical and legislative developments. It also ensures that our interests are represented in an industry which is crucial to our business."



Uptake of ALLMI's Crane Supervisor Course increased by 78% in 2016/17

Increased demand for Crane Supervisor training

The importance and credibility of ALLMI's Crane Supervisor course continues to grow, with the association experiencing a 78 percent increase in demand during its 2016/17 financial year.

ALLMI training officer and lead crane supervisor instructor, Jon Kenyon said: "The Crane Supervisor controls the lifting operation and is responsible for ensuring that it is carried out in accordance with the Appointed Person's safe system of work. The ALLMI course is designed to assist employers in meeting their obligations under BS7121 Part 4, and it equips those looking to fulfil the Crane Supervisor role with the required technical and legislative knowledge, as well as a high level of practical skills."

Modular building supplier SiBCAS has put several members of its team through the ALLMI programme. One of the course candidates was safety, health and environment advisor and training manager, Morven Maclean, who said: "Safety and standards are paramount at SiBCAS and so the ALLMI Crane Supervisor course was a logical choice for us. We were very impressed with the quality of the content and documentation, and the way in which the training constantly refers back to the requirements of BS7121 Part 4. In my opinion, it was extremely worthwhile and I would recommend it to others looking to fulfil this lifting team role."

Market statistics released

The ALLMI loader crane industry sales figures for 2016 have now been published. Compiled by an independent third party, with the involvement of the majority of manufacturers, the statistics are broken down into categories based on the tonne/metre rating of the equipment, as well as by application.

Demand for remote controls continues to grow, with over half of all cranes invoiced now equipped with them - and as high as 98 percent in one particular sector of the market. The continuing popularity of remote controls reflects the benefits they bring to loader crane operation. However, it is important to remember that they can create some significant potential hazards if used incorrectly. Therefore, users are encouraged to take note of the association's freely available "Safe Use of Remote Controls" material, which includes a web-based video, an information leaflet aimed at operators and supervisors, and a ready-made toolbox-talk template. For copies, visit www.allmi.com.



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International Awards for Powered Access shortlists

The shortlist for this year's International Awards for Powered Access (IAPAs) has been announced, following the judges' meeting on 7th February. The independent judging panel was a combination of IPAF member companies and non-members and included:

- Andy Studdert of US-based NES Rentals and current IPAF president
- Eline Oudenbroek of Netherlands based Holland Lift
- Kai Schliephake of Germany's PartnerLift
- Mike Evans retired access industry veteran
- Rick Mustillo of Kookaburra Equipment Sales and president of Australia's Elevating Work Platform Association;



The non-voting chairman was Euan Youdale of Access International

2017 IAPAs shortlist by category

Access Rental Company of the Year

AFI
Nationwide
Rival
Shanghai Horizon

Contribution to Safe Working at Height

EIDE - Safety brakes
JLG
Modern Access & Scaffolding
Power Towers

Innovative Technology Prize

Haulotte - Activ'Lighting System Safe Load
Nationwide Platforms - SkySiren
Serious Labs - VRSL: AWP Trainer

IPAF Training Centre of the Year

DK Rental



IPAF Summit

Manlift
Mills

IPAF Training Instructor of the Year

Anderson Puff
Fernando Serafim
Lukas Gerber

Powered Access Pioneer

Alo Group
Shanghai Horizon
Time International

Product of the Year - Mast climbers/hoists

Alimak Hek - Mammoth Triplex
Maber - Construction Hoist MB A 2200/250
Scancrawler - All Reach Extension

Product of the Year - Self-propelled above 20ft

ATN - Piaf 1010
Genie - SX-135 XC
JLG - 1500AJP
Teupen - Puma 42GTX

Product of the Year - Vehicle/trailer mounted

CTE - B-Lift 17E
Palfinger Platforms GmbH - P750

Ruthmann - T 510 HF

Project of the Year

Mills - Coconut harvest
RCB - Rio Paralympic Games
Scancrawler - Amager Bakke
Smart Platforms Solutions -
Maintenance Dutch sea-locks

The IAPA awards dinner and awards ceremony will be held on 4th April following the IPAF Summit both of which will be held at the Hilton London Wembley hotel. This year's Summit speakers include John Garrison of Terex, Matthew Elvin of Xtreme/Snorkel, Steve Radcliffe of Clugston Construction, Jim Senior of Multiplex Construction Europe, Leigh Sparrow of the Vertical Press and Yanna Zhang of the China Construction Industry Association's Rental Branch. The following day there will be a guided site tour of Wembley Stadium.

Entry to the summit is free and open to all, while tickets and tables for the IAPAs are available at www.iapa-summit.info



IPAF Judging panel

Major contractor demands PAL+ Card

UK construction, civil engineering and facilities management contractor Clugston has issued updated guidance for sub-contractors, emphasising its ongoing requirement that operators of large booms and scissor lifts hold PAL+ certification. Clugston also requires the relevant management teams of all sub-contractors using aerial work platforms to have at least one member with an IPAF MEWPs for Managers certificate.

The latest Clugston Construction Managers Health, Safety and Environmental Brief, published at the end of 2016, states that platform operators working on Safety Netting, Structural Frame, Steel Erection and associated trades hold the IPAF PAL+ certification and that the certification may apply to other activities. It insists that all subcontractors assess the competency of operators in accordance with IPAF PAL+.

PAL+ is an optional, additional one day of category-specific training aimed at operators working in higher risk or challenging environments. Upon successful completion, operators will have the relevant categories added to their PAL Card, e.g. Static Vertical (1a+), Static Boom (1b+), Mobile Vertical (3a+) and Mobile Boom (3b+).

IPAF chief executive Tim Whiteman said: "We are pleased with this recognition from a leading contractor as to the benefits of the robust training and safety support IPAF offers to help ensure the safe and efficient operation of work platforms. We are seeing more contractors, rental companies and procurement managers insisting on IPAF-accredited operators and hope others will follow Clugston's lead in publishing specific frameworks and requirements."

New IPAF Council constituted in Singapore

A new IPAF Council has been formed in Singapore. Members include chairman Daniel Ho of Terex Singapore, secretary Shahid Qureshi of Haulotte Singapore, Tony Tang of Absolute Kinetics Consultancy, Jovian Ang of Aver Asia, Daniel Woo of Erect Group, Shawn Ong of Galmon, Benny Chong of Global Training Services and Klein Phua of Modern Access & Equipment.

IPAF Regional general manager for South East Asia Raymond Wat said: "The formation of a new regional council here in Singapore re-emphasises IPAF's commitment and reflects the growing profile of our organisation in the region, particularly as we have just seen the introduction of new Approved Codes of Practice/Singapore Standards related to lifting equipment and work at heights, the drafting of which IPAF was closely involved with."



The IPAF Singapore Council

IPAF training news

IPAF has launched several new training centres in North America, the latest being ReachMaster of Kingwood, Houston, Texas. Which is now running operator courses to meet growing demand for high-quality training, particularly with the new suite of ANSI Standards now due for publication.



Tim Whiteman of IPAF (L) with Ebbe Christensen of ReachMaster at the official launch of the new training centre

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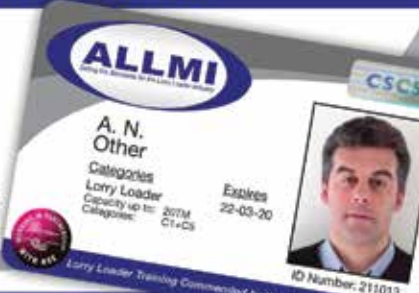
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PASMA launches major international safety initiative

PASMA has announced the launch of an industry-leading initiative designed to promote height safety in general and the safe use of mobile access towers in particular. The PASMA Safety at Height Advisory Panel is intended to make the specialist knowledge, operational guidance and resources of the association available across different regions of the world, starting with the Middle East Gulf States.

Working in partnership with government departments and agencies, other trade and professional bodies and industry at large, the panel will provide advice and information designed to keep people safe when working at height - one of the biggest causes of death and injury in the global workplace.

Chaired by Mike Palmer, regional quality, health, safety, environment and training manager at Rapid Access, the panel comprises industry experts from a wide range of backgrounds and experiences with the common objective of advancing safety and best practice through standards, guidance and training.

Palmer said: "We all have first hand experience of working in the region and therefore know and understand the way in which the local access industry operates. We want to offer insights and advice and to encourage a best practice mindset based on accepted standards and skill."

Sarah Nunn, PASMA's head of international development, added: "Here at PASMA we are passionate about making work at height safer for everyone. The launch of the panel is a practical demonstration of that commitment to reducing falls from height."



Sarah Nunn

PASMA continues sponsorship

Hire Association Europe and Event Hire Association (HAE EHA) have announced the entries shortlisted for its 2017 Awards of Excellence to be held at London's Grosvenor House Hotel, Park Lane, on Saturday 22 April. Independently judged, the Hire Awards of Excellence recognise the successes of rental companies and suppliers, along with the individuals who set the standard. The awards represent the best in class for companies and individuals working in the general rental sector.

PASMA is again sponsoring the SafeHire Company of the Year category and the award will go to the company which has best demonstrated its compliance to the SafeHire Standard and has improved the health, safety and well being of its workforce and/or users of hired or owned equipment. The finalists for 2017 are A-Plant, HSS Hire, Plantool Ltd and PSM Plant & Tool Hire Centres.

Jason Carlton PASMA's head of strategic engagement and enterprise said: "PASMA is delighted to continue its support of HAE's Hire



Jason Carlton



2016 Expo stand

Getting the message across

PASMA will be taking part in a series of events and initiatives designed to promote height safety over the next few months.

The Health & Safety Event: The association will be one of several organisations joining with other industry experts to discuss working at height and fall protection on the Safety Dialogue Panels at the NEC, 21-23 March. Visitors will be invited to join the debate and contribute directly to discussing this important topic.

Working Well Together (WWT): The first of several WWT events planned for 2017 in conjunction with the eleven-member Access Industry Forum (AIF), the association will represent the mobile access tower industry in Plymouth on 31 March.

Safety & Health Expo: Alongside ATLAS, EPF, FASET, IPAF, IRATA, Ladder Association, NASC, SAEMA and WAHSA, PASMA will be promoting towers and tower safety at this annual event at ExCeL, London, 20-22 June.

London Work at Height Seminar: Taking place at the prestigious Guildhall in London on 10 July, PASMA will be one of several organisations in the work at height sector invited by the City of London Corporation to talk about the latest trends and developments in height safety. Equipment will also be on display in the Courtyard.



Awards of Excellence in general and the SafeHire category in particular. The association has been a major contributor to the development of the SafeHire Scheme which proves competence in safety, health, equipment and quality, and, as such, we are thrilled to be associated with

this important award."

In 2015 PASMA and HAE signed a Memorandum of Agreement designed to forge a closer working relationship between the two organisations.



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Demag AC 55-3

As part of the rebranding of Terex Cranes, the Terex Challenger 3160 has become the Demag AC 55-3, and this is reflected in this 1:50 scale model from Conrad. The real crane is a 55 tonne capacity Terrain with a main boom length of 50 metres.

There is some minor assembly to do with the attachment of wing mirrors, and an instruction sheet details the counterweight attachment mechanism

There is little detail on the underside of the chassis with the steering mechanism for the axles being purely functional, and there is no drive train detail modelled whatsoever. The wheels have good all terrain tyres. The steering works very well and each axle steers independently, allowing any mode to be posed.

The distinctive carrier cab looks good with the lights nicely detailed. Behind the cab, the carrier decking has very nice diamond plated anti-slip surfaces. The outrigger beams are made of tough plastic and the outrigger jack cylinder rods are standard screw threads, with plastic pads. They can hold the weight of the crane perfectly well.

At work



The crane cab has plastic grab rails and inside there is an operator's seat and controls. It tilts smoothly to a reasonable angle. The main counterweight comes as a fixed part on the crane and a separate slab which can be carried on the deck. A good feature is the counterweight attachment mechanism which can be used realistically on the model. Two spring loaded pins can be pushed down to engage the counterweight and lift it into the working position, just like the real crane.

The boom sections are die-cast metal and fairly simple. It can be extended to full length of almost a metre, and each section has the usual locking mechanism to prevent the boom sections retracting when elevated.

A twin sheave hook block is provided, and the sheaves are metal, although configuration of the hook block limits the reeving options to four falls of rope. The winch is operated by turning the winch drum directly and it has enough friction to hold a reasonable load.

This is a typically robust model from Conrad, with nice functionality in the counterweight attachment. In terms of detailing the model is reasonably good, and the Demag colour scheme makes for an attractive model. It costs €158 from the Terex webshop.

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

Cranes Etc Model Rating

| | |
|--------------------|-----|
| Packaging (max 10) | 8 |
| Detail (max 30) | 23 |
| Features (max 20) | 16 |
| Quality (max 25) | 20 |
| Price (max 15) | 9 |
| Overall (max 100) | 76% |



The crane on the road



Attractive Demag colour scheme

Diamond plated surfaces



Alongside the Terex Challenger 3160



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Truth, facts and openness

Dear Editor,

Following on from your excellent editorial, I was recently told by the managing director of one London based Contractor, how he was Paid (yes Paid) by another National Contractor to plead guilty to a Health & Safety Executive charge and take the rap for him.

When I pointed out to him that any attempt to 'Pervert the Course of Justice' was a Criminal Act, he replied that "This Kind of Thing goes on all the Time in the Construction Industry?"

So the problem of Lies, Alternative Facts and Suppression of the Truth maybe much bigger than you think !

Yours Sincerely

Vertikal Supporter.

*This letter as shocking as it is, was sent in response to an online editorial **Truth, facts and openness** in which we point out that lies and suppression of information, particularly around near misses and accidents, not to mention 'alternative facts' do occur but that those companies where this practice becomes part of the culture tend to do less well over the long-term than those with a more open, honest and truthful approach. An online poll on this subject indicates that many of our readers agree - it currently stands at 74.1 percent supporting this point while only 25.9 percent disagree - although so far only 220 individuals have voted. When this letter arrived in our offices it included the readers name, when we asked if that was OK to publish he said yes, then called back having had second thoughts and suggested the sign off we have used.*

More Sympatico

Dear Sir,

I really enjoyed reading the article about Mr Magni and the founder of the Chinese platform company (Xu Sughen - founder of Dingli) what particularly appealed to me was the personal aspect you added in to the coverage which I find sadly lacking in most industrial, or "trade" periodicals. I have followed Mr Magni's career since the early days of his involvement with Manitou, and had the pleasure to meet him on one occasion. He is a lovely man, and a genius engineer to boot. If his new booms are anything like the other products he has been responsible for, they will be the best in the market. I also liked the feature on the Ellis family by the way with the old photographs. Great magazine please keep it up and give us more stories like these.

I always enjoy receiving my copy regardless - many thanks
George Mathews

Battery charger developments for 110 volt supplies

Hi Mark

I hope you are well. I read Malcolm Bowers' letter about Battery Chargers for our big Scissor lifts.

We as a company are working towards providing Holland Lift, PB Liftechnik, Airo (XL19E, A21) with a solution to try to manage the charging issues with these platforms from type 3(a) being Mobile vertical units.

We have supplied the charger that will shortly be installed in a development unit of an HL165 for a trial and test evaluation. We have an HF unit also in development but we want three to six months feedback with the SCR unit before attempting to improve and refine it.

What Mr. Bowers has omitted from his message is that most 110VAC supplies on site are limited to 16 amps which means that if you have say a 48 volt 50 amp charger designed to run on 110 volt AC 32 amp supply then you will simply get 50 percent output in charging current.

Take a look at the new Zivan SG3 charger. This is rated at 25 amps on a 120 Volt AC supply. When you put it onto 110 Volt AC system you will only get 22.5 amps at best.

Then you throw in voltage drop for using extension fly leads (see my prior letter In March 2015 cranes & access p67) you start to appreciate the "Real World" problems.

James Davies

Norco Energy

Scissor lift comparison correction

In the last issue we carried a comparison of slab electric scissor lifts (page 32) following the introduction of the new JCB range. Given the mass of data and tight deadlines we made an error in that we appear to have used the ANSI specification for the Skyjack SJIII4740 rather than the CE version. The platform capacity should have been 350kg rather than the 227kg we published, while GVW should have been 2,985kg not 3,393kg. The online/digital version has been updated. For thoroughness here is the corrected chart.

The JCB S4046 v the competition

| Make Model | Haulotte Compact 14 | Imer IT12122 | JCB S4046 | Genie | Skyjack SJIII 4740 |
|----------------|---------------------|--------------|-----------|----------|--------------------|
| Work Height | 13.85m | 13.9m | 13.9M | 13.89m | 13.8m |
| Capacity | 350kg | 350kg | 320kg | 249kg | 350kg |
| Width | 1.2m | 1.22m | 1.15m | 1.19m | 1.19m |
| Length | 2.49m | 2.47m | 2.39m | 2.44m | 2.40m |
| Stowed Height* | 2.08m | 2.11m | 1.98m | 1.88m | 2.21m |
| Weight | 3,175kg | 3,085kg | 2,996kg | 3,260kg | 2,985kg |
| Battery | 340Ah | 300Ah | 300Ah | 300AH | 300Ah |
| Deck ext | 920mm | 1.4m | 900mm | 910mm | 900mm |
| Raise/lower | 61/50 sec | 75/60sec | 75/60sec | 71/41sec | 71/41 sec |
| Gradeability | 23% | 25% | 25% | 25% | 25% |
| Travel speed | 2.7kph | 4kph | 3.2kph | 3.1kph | 3.2kph |

* Guardrails folded

Training is the playing field level?

The following Open Letter from Mr Mick Norton to Gordon Jenkins director of operations at the Construction Skills Certification Scheme included us in the distribution. It raises concerns that the playing field is not level when it comes to training. In his letter he specifically cites ALLMI and IPAF training. Mr Jenkins responded promptly to Mr Norton, copying us in on his response, which we also publish below.

Dear Mr Jenkins,

In recent correspondence, you have staunchly defended the status quo in the awarding of the CSCS logo to various industry card schemes, and the respective requirement for some to achieve an NVQ level 2 whilst others are granted an opt-out. The CSCS seems to be returning to the days when its scheme was not clear and free of ambiguity. Whilst the CSCS insist on the achievement of an NVQ level 2 for the NPORS and CPCS schemes an opt-out has been granted for ALLMI, PAL/IPAF and EUSR-Utilities by the CSCS, where the latter schemes can carry the logo but without its card holders having to work toward, or achieve an NVQ.

All of the above schemes are comprised of skilled occupations and the CSCS policy is clearly contradictory when it states that the minimum standard is an NVQ level 2 qualification relevant to the occupations plus a separate health and safety element for all?

If a site worker seeks a Lorry Loader qualification through ALLMI there's no NVQ required whereas the CPCS and NPORS schemes will impose a vocational qualification with additional expenditure for the candidate/employer. Similarly, a candidate seeking a Mobile Elevating Work Platform qualification through PAL/IPAF will not need to fund an NVQ level 2 whereas the same qualification through CPCS or NPORS will need to achieve NVQ level 2.

The ALLMI course does not incorporate an NVQ, although it is mapped against National Occupational Standards, (NOS), as well as applicable parts of the BS 7121 series. The CPCS training outcomes, syllabus and technical test are similarly mapped against the relevant (NOS). Notwithstanding the clear lack of parity for all those seeking a CSCS logo it is inconsistent and without a doubt grossly unfair in as much it imposes financial hardship on many individuals that have to fund their own NVQ.

When the great and the good gather to make these decisions on awarding affiliation to the CSCS logo they need to put themselves in the place of a ground worker on £10/hour seeking a singular NPORS or CPCS qualification in order to get him/herself started on site. Eg: A Leeds based CPCS test centre is charging potential Lorry Loader A36, (hook or clamshell), candidates £1,500 to qualify for red card status in one day. Add to that the NVQ charge of say, £650, and this candidate will have to work six weeks to accrue £2,150. NPORS candidates will have to fund the same route albeit at a much lower cost than CPCS. By comparison, the ALLMI route to full competence will see an expenditure of only approximately £500. Where is the parity when NPORS, CPCS and ALLMI delivery of the lorry loader modules are based on identical learning outcomes based on the national occupational standards?

The disparity of the CLC/CSCS decision on who must do an NVQ and those such as ALLMI, PAL/IPAF and EUSR - Utilities who many consider should be challenged in court, if necessary, by those in industry who find themselves

financially penalised when seeking comparable qualifications from two card schemes carrying the same CSCS logo.

Whilst the concept of a single logo embracing all stakeholders who support the CSCS initiative is best intentioned, some have clearly been more aggressive with their applications with provisos that the status quo remains unaltered and the need to achieve an NVQ be deleted.

There is a simple solution which the CSCS and CLC must consider for the maintenance of a level playing field,

- "Either all schemes do an NVQ or the NVQ is not required by all schemes seeking the CSCS logo, with no exceptions."

I am in no way questioning the quality of what ALLMI are delivering it is second to none for those seeking the lorry loader competency with regulated training and quality assured instructors, key points lacking in other schemes.

Once again, on the independent auditor for the CSCS could you confirm that it is ex CITB Head of Education and Research, Nick Gooderson?

Regards,

Mick Norton BEM

The response

Dear Mr Norton,

Regarding your follow up there is little I can add to my previous responses. All schemes applying to display the CSCS logo have been through an approved audit process to ensure compliance with the CLC requirements.

In accordance with the CLC requirements our responsibility is to ensure all schemes adopt NVQ's, or suitable equivalents as confirmed by the relevant standard setting body, before granting use of the CSCS logo. If you have a concern that any of the schemes you mentioned do not map to the sector standard then you should raise this directly with CITB who is the appropriate standard setting body in this case.

Regards

Gordon Jenkins

Director of Operations

Construction Skills Certification Scheme Ltd

Erwin Müller 1951-2017

Access industry veteran Erwin Müller passed away on Saturday, March 11th, he was 65. Müller retired as managing director of Rosenbauer Schweiz at the end of 2015 and remained as a consultant to the company until late last year.



He began his career with Simon Aerials in the 1980s and was with the company when it was acquired by Terex. He later moved to Grove Manlift, where he became a district manager. At the time of his retirement the company said: "Under the leadership of Erwin Müller, Rosenbauer Switzerland has developed into the leading fire brigade supplier in Switzerland in recent years."

He leaves behind his wife Elisabeth and three adult children. The funeral took place on Friday 17 March near his home in Switzerland. Anyone who wishes to commemorate him may send a donation to the Krebsliga Schaffhausen, PC account: 82-3096-2, Note: Erwin Müller.

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Hire17

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Australian Hire & Rental association annual convention and show Rosehill Gardens, Sydney, Australia
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UK/Ireland crane and access event.
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TABS

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www.tagung-tabs.eu



Matexpo 2017

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Platformers Days 2017

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



GIS 2017

October 5-7, 2017
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Tel: +39 010 5704948
www.gisexpo.it



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| 35 t Liebherr LTM 1030-2.1 | 2005 | 4x4x4 | 30,00m + 15,00m |
| 35 t Liebherr LTM 1030-2.1 | 2006 | 4x4x4 | 30,00m + 15,00m |
| 40 t Terex-Demag AC 40-1 City | 2009 | 6x6x6 | 31,20m + 13,00 m + 1,20m |
| 45 t Faun ATF 45-3 | 2006 | 6x6x6 | 34,00m + 15,20m |
| 55 t Grove GMK 3055 | 2004 | 6x6x6 | 43,00m + 15,00m |
| 60 t Faun ATF 60-3 | 2004 | 6x6x6 | 40,20m + 16,00m |
| 60 t Faun ATF 60-4 | 2000 | 8x6x8 | 40,00m + 16,00m |
| 75 t Grove GMK 4075-1 | 2005 | 8x6x8 | 43,20m + 17,00m + Runner |
| 80 t Terex-Demag AC 80-2 | 2004 | 8x6x8 | 50,00m + 17,60m |
| 80 t Terex-Demag AC 80-2 | 2003 | 8x6x6 | 50,00m + 17,60m + Runner |
| 100 t Grove GMK 5100 | 2001 | 10x8x10 | 51,00m + 18,00m |
| 160 t Tadano Faun ATF 160G-5 | 2009 | 10x8x8 | 60,00m + 37,00m |
| 200 t Liebherr LTM 1200-5 | 2009 | 10x8x10 | 72,00m + 22,00m |
| 250 t Demag AC 665 SL | 1997 | 12x6x8 | 58,00m + 41,00m + 65,00m + 2,00m |
| 400 t Liebherr LTM 1400-7.1 | 2007 | 14x8x12 | 60,00m + 56,00m + 84,00m |

RT-TELESCOPIC-MOBILE CRANES

| Make / Type | y. o. m. | Drive | Boom / Fly Jib |
|---------------------|----------|-------|----------------|
| 25 t Kato KR 250 E | 1997 | 4x4x4 | 26,70m + 7,00m |
| 80 t Grove RT 890 E | 2008 | 4x4x4 | 43,00m |

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SCX900 90t 2008



SCX800 80t 2009

| | | |
|-----------------------------|------|------|
| Sumitomo LS238 | 100t | 1992 |
| Hitochi-Sumitomo SCX900-2 | 90t | 2007 |
| Hitochi-Sumitomo SCX900-2 | 90t | 2008 |
| Hitochi-Sumitomo SCX800-2HD | 80t | 2009 |



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Access Equipment Manufacturers

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| The Access Platform Company | www.accessplatformcompany.co.uk |
| Ascendant Access | www.ascendantaccess.com |
| Aichi | www.aichi-corp.jp |
| AIRO | www.airo.com |
| Alimak Hek | www.alimakhek.com |
| ATN | www.atnplatforms.com |
| Barin | www.barin.it |
| Bil jax | www.biljax.com |
| Böcker Maschinenwerke | www.boecker-group.com |
| Bravi | www.bravisol.com |
| CMC | www.cmclift.com |
| CTE | www.ctelift.com |
| DENKA-LIFT | www.rothlehner.com |
| Dino Lift | www.dinolift.com |
| Dingli | www.cndingli.com |
| Easylift | www.easy-lift.it |
| Falck Schmidt | www.tcalift.com |
| GEDA-Dechentreiter | www.geda.de |
| Genie | www.genielift.com |
| GSR Spa | www.gsrspa.it |
| Haulotte | www.haulotte.com |
| Hinowa Tracked Aerial Platforms | www.hinowa.com |
| Holland Lift | www.hollandlift.com |
| Imer Access | www.imergroup.com |
| Isoli | www.isoli.com |
| Iteco | www.imergroup.com |
| JLG | www.jlgeurope.com |
| Klaas | www.utility-equipment.com |
| Klubb France | www.klubb-france.fr |
| Ladder Safety Devices | www.laddersafetydevices.co.uk |
| Leader | www.leader-piatt.it |
| Leguan Lifts | www.leguanlifts.com |
| Manitou | www.manitou.com |
| Mantis Access | www.mantisaccess.co.uk |
| Mantall | www.mantall.com |
| Matilsa | www.matilsa.es |
| MEC | www.mec-awp.com |
| Niftylift | www.niftylift.com |
| Oil&Steel | www.oilsteel.com |
| Omega Platforms | www.omegaplatforms.com |
| Omme Lift | www.ommelift.dk |
| Palazzani Industrie | www.palazzani.it |
| Palfinger Platforms | www.palfinger-platforms.com |
| Planet Platforms | www.planetplatforms.co.uk |
| PB Lifetechnik | www.pbgmbh.de |
| Platform Basket | www.platformbasket.com |
| Ranger tracked access | www.tracked-access.co.uk |
| Runshare | www.runshare.net |
| Ruthmann | www.ruthmann.de |
| Sinoboom | www.sinoboom.com |
| Skyjack | www.skyjack.com |
| Snorkel | www.snorkelusa.com |
| Socage | www.socage.it |
| SUP | www.supelefant.com |
| TCA Lift | www.tcalift.com |
| Teupen | www.teupen.com |
| Turner Access | www.turner-access.co.uk |
| UTS Sales & Repairs | www.towersandpodiums.co.uk |
| Versalift distributors (UK) | www.versalift.co.uk |
| Youngman | www.youngmangroup.com |

Scaffold Towers

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| Eurotowers | www.eurotowers.co.uk |
| Instant | www.instantupright.com |
| Planet Platforms | www.planetplatforms.co.uk |
| Svelt | www.svelt.it |
| Turner Access | www.turner-access.co.uk |
| Youngman | www.youngman.com |

Mastclimbers & Hoists

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

Specialist Scaffolding

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

Platform Rental

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

Notified Body

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| Powered Access Certification | www.pac.co.uk |
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New & Used Platforms

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

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| Rothlehner | www.rothlehner.com |
| Tracked Access | www.trackedaccess.com |
| Platform Sales | www.platformsales.co.uk |
| Promax Access | www.promaxaccess.com |
| Rapid Platforms | www.rapidplatforms.co.uk |
| Reachmaster (USA) | www.reachmaster.com |
| Riwal | www.riwal.com/used |
| Turner Access | www.turner-access.co.uk |
| TVH - Group Thermote & Vanhalst | www.tvh.be |
| Universal Platforms | www.universalplatforms.com |
| Utility Equipment | www.utility-equipment.com |
| Vertimac | www.vertimac.com |
| Wilson Access | www.wilsonaccess.co.uk |
| Workplatform | www.workplatformltd.co.uk |

Special/Bespoke Access & Lifting Solutions

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

Special & Niche Access

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

Special Lift & Transport Equipment

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

Self-Propelled Modular Transporters

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

Telescopic Handler Manufacturers

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

New & Used Telehandlers

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| Dieci Telehandlers | www.dieci.com |
| GT Lifting Solutions | www.gtlifting.co.uk |
| Industrial Access | www.industrialaccess.ro |
| Lisman | www.lisman.nl |
| Riwal | www.riwal.com/used |
| Vertimac | www.vertimac.com |
| VHS Vissers Heftruck Service | www.vhsblad.nl |

Telehandler Rental

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| ABBA | www.abbaplantire.co.uk |
| GT Lifting Solutions | www.gtliftingltd.co.uk |
| JMS PLant Hire | www.jms-planthire.co.uk |
| Mr Plant Hire | www.mrplanthire.co.uk |
| Readyplant Ltd | www.readyplant.co.uk |

Site Safety Audits

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| Alfa Access Services | www.alfa-access-services.com |
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Industry Associations

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

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| Crane Manufacturers | | Hird | www.hird.co.uk | AGS | www.ags-btp.fr | |
| Böcker Maschinenwerke | www.boecker-group.com | Tracked Access | www.trackedaccess.com | Airtek equipment | www.airteksafety.com | |
| Galizia | www.galiziagru.com | Self Erecting Tower Cranes | | | Heaton Trestle Handrail System | www.heatonproducts.co.uk |
| Grove | www.groweworldwide.com | City Lifting | www.citylifting.co.uk | Heaton Scaffold Towers | www.heatonproducts.co.uk | |
| HCME (Hitachi-Sumitomo) | www.nrcplant.co.uk | Electrogen Int | www.electrogen.ie | Load Systems UK Ltd | www.loadsystems.com | |
| Jekko Minicrane | www.jekko.it | John Sutch Cranes | www.johnsutchcranes.co.uk | Marwood | www.marwoodgroup.co.uk | |
| JMG | www.jmgcranes.com | King Lifting | www.kinglifting.co.uk | SMIE | www.smie.com | |
| Klaas | www.utility-equipment.com | Ladybird tower | www.ladybirdcranehire.co.uk | Software | | |
| Kobelco | www.kobelcocm-global.com | Crane Hire | | | Higher Concept | www.higherconcept.co.uk |
| Liebherr | www.liebherr.com | J&M Crane Hire | www.jandmcranehire.co.uk | inspire | www.inspire.com | |
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| Maeda | www.maedaminicran.es.co.uk | Mantis Cranes | www.mantiscranes.co.uk | MCS Rental Software | www.mcs.co.uk | |
| Manitowoc | www.manitowoccranes.com | Tower Cranes | | | Structural Repairs | |
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| Ormig | www.ormig.co.uk | Electrogen Int | www.electrogen.ie | Crowland Cranes | www.crowlandcranes.co.uk | |
| Potain | www.manitowoccranes.com | Heavy Lift Management | | | John Taylor Crane Services | www.jtcranes.co.uk |
| Raimondi | www.raimondi.com | DWLS | www.dwls.co.uk | Training Associations & Networks | | |
| Sany | www.sany.com.cn | DWLS | www.dwls.com | ALLMI | www.allmi.com | |
| Sennebogen | www.sennebogen.com | HLI Consulting | www.hliconsulting.com | AWPT | www.awpt.org | |
| Spierings | www.spieringskranen.nl | Heavy Lift Planning & Risk Analysis | | | IPAF | www.ipaf.org |
| Tadano | www.tadanofaun.de | Ancillary Equipment | | | NASC | www.nasc.org.uk |
| Tadano Japan | www.tadano.com | TMC lifting supplies | www.tmc-lifting.com | Pasma | www.pasma.co.uk | |
| Terex-Demag | www.terex-cranes.com | Auction Houses | | | Training Centres & Trainers | |
| Unic Cranes | www.unic-cranes.co.uk | Ritchie Brothers | www.rbauction.com | Access Platforms Direct | www.accessplatformsdirect.co.uk | |
| Valla | www.valla-cranes.co.uk | Battery Suppliers & Manufacturers | | | Astra Access | www.astratraining.co.uk |
| Wolffkran | www.wolffkran.de | Shield Batteries | www.shieldbatteries.co.uk | Boss Training | www.bosstraining.co.uk | |
| Zoomlion | www.zoomlioncranes.co.uk | Trojan Battery | www.trojanbattery.com | IAPS | www.iapsgroup.co.uk | |
| Lorry/Truck Loader Cranes | | Platinum International | www.platinuminternational.com | Active Safety | www.activerentals.co.uk | |
| Atlas Cranes UK | www.atlasgmbh.com | Load Cells & Load Monitoring Systems | | | Advanced Access Platforms | www.accessplatformsuk.com |
| Effer | www.effer.it | Force Logic UK Ltd | www.force-logic.co.uk | Ainscough | www.ainscoughtraining.co.uk | |
| Hiab | www.hiab.com | Control Systems | | | AJ Access | www.accessplatforms.com |
| Palfinger | www.palfinger.com | MOBA Automation | www.moba.de | Approved Safety Training -Ca | www.approvedsafetytraining.com | |
| Penny Hydraulics | www.pennyhydraulics.com | Intercontrol | www.intercontrol.de | GT Access | www.gtaccess.co.uk | |
| PM Cranes | www.pm-group.eu | Generator Sales & Rental | | | Lift-Manager | www.lift-manager.com |
| New & Used Cranes | | Electrogen Int | www.electrogen.ie | LTC Training Services | www.ltctrainingservices.co.uk | |
| AGD Equipment | www.agd-equipment.co.uk | JMS Plant Hire | www.jms-planthire.co.uk | Mentor Training Solutions | www.mentortrainingsolutions.co.uk | |
| Cotac Oy | www.crane.fi | Insurance | | | Nationwide Platforms | www.nationwideplatforms.co.uk/Training |
| Cranes4Cranes | www.cranes4Cranes.com | Specialist Insurance | www.cover1.com | SGB | www.sgb.co.uk | |
| Cranes UK | www.cranesuk.net | Online Technical Help | | | Smart Platform Rentals | www.smartplatforms.com |
| Crowland Cranes | www.crowlandcranes.co.uk | Crane Tools | www.cranetools.com | Transloader Services | www.transloaderservices.co.uk | |
| Electrogen Int | www.electrogen.ie | Outrigger Pads, Mats & Roadways | | | UTN | www.utntraining.co.uk |
| IMC Cranes | www.imc-cranes.com | Alimats | www.craneriggermats.co.uk | Warren | www.warrenaccesstraining.co.uk/courses/ | |
| Jones-Iron Fairy | www.jonesironfairy.co.uk | Eco power pads | www.outriggerpads.co.uk | Access Training | www.workplatformltd.co.uk/customer-support/operator-training | |
| Kobelco | www.kobelco-cranes.com | GTP Europe | www.gtp-europe.com | Workplatform | www.workplatformltd.co.uk/customer-support/operator-training | |
| Leader | www.leader-piatt.it | Marwood | www.marwoodgroup.co.uk | Safety Training | | |
| London Tower Cranes | www.londontowercranes.co.uk | Mat & Timber Services | www.sarumhardwood.co.uk | Atlas Cranes UK | www.atlasgmbh.com | |
| Maeda | www.maedaminicranes.co.uk | Nolim | www.nolim.nl | Avon Crane | www.avoncrane.co.uk | |
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|--------------------|----------------|-----------|
| Bronto S34MDT | 34m | 2001-2003 |
| Bronto S46XDT | 46m | 2005 |
| Bronto S52XDT | 52m | 2006-2008 |
| Ascendant A12.5VM | 12.5m | 2011-2013 |
| Ascendant A15VM | 15m | 2010 |
| Ascendant A17-12T | 17m | 2009 |
| Ascendant A22-17TJ | 22m | 2006-2012 |
| GSR E290PX | 29m | 2008 |
| GSR 160P | 16m | 2003-2013 |

Self Propelled Booms

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

Scissor Lifts

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

Trailer Mounted & Narrow Access

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

| Make | Working Height | Year |
|-----------------------|----------------|-----------|
| Aichi T212 | 14m | 2001 |
| Denkalift DL22N | 22m | 2001-2007 |
| Genie Z30/20N | 11.1m | 1996 |
| Genie Z45/22 | 15.8m | 1996 |
| Grove Toucan 1010 | 10.1m | 2000 |
| Haulotte H25TPX | 25m | 2008 |
| Haulotte HA16 | 16m | 2006 |
| Haulotte Compact 10DX | 10m | 2007 |
| Haulotte Quick Up 14 | 14m | 2003-2008 |
| Nifty HR12NDE | 12.2m | 2005-2008 |
| JLG 15VP | 15m | 2001 |
| Nifty 120 | 12m | 2007 |
| Skyjack SJ4632 | 11.6m | 2011 |
| Skyjack SJ9250 4x4 | 17.1m | 2008 |
| Falck Schmidt TS24 | 29m | 1994 |
| Haulotte Star 10 | 10m | 2011 |
| Nifty V100 | 10.8m | 2001 |
| Mantis 20/22 | 22m | 1996 |

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Scissor lifts

Diesel, 4x4 Drive,
15.0m Working Height,
2006 | PHM-Id 08702

€17,900



HAULOTTE - HI 8SX

Scissor lifts

Diesel, 4x4 Drive,
18.0m Working Height,
2005 | PHM-Id 08699

€15,900



HAULOTTE - COMPACT 12DX

Scissor lifts

Diesel, 4x4
12.0m Working Height,
2005 | PHM-Id 08822

€9,900



HOLLAND LIFT - NI 20EL12

Scissor lifts

Electric, 4x2x2 Drive,
13.0m Working Height,
2007 | PHM-Id 07513

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HAULOTTE - COMPACT 8

Scissor lifts

Electric, 4x2 Drive,
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2009 | PHM-Id 08781

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HAULOTTE - STAR 10

Vertical mast lifts

Electric, 4x2 Drive,
10.0m Working Height,
2011 | PHM-Id 08838

€13,900



HAULOTTE - HA16PXNT

Articulating boom lifts

Diesel, 4x4x4 Drive,
16.0m Working Height,
2004 | PHM-Id 08695

€13,500



MANITOU - 160ATJ

Articulating boom lifts

Diesel, 4x4x4 Drive,
16.0m Working Height,
2008 | PHM-Id 08789

€18,900



GENIE - S125

Boom lifts

Diesel, 4x4x4 Drive,
40.0m Working Height,
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LIEBHERR - LTM1100-2

Telescopic Cranes

100t, Diesel, 10x8x8,
52m Boom
11.5m Boom Length (min),
2004 | PHM-Id 08878

€339,000



GROVE - GMK4075

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80t, Diesel, 8x6x8,
43.2m Boom
11.0 Boom Length (min),
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Electric - 8,1 Mtr. - 326 Hrs.
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V21499 - Haulotte Compact 10N - 2006
Electric - 10 Mtr. - 528 Hrs.
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V22193 - Genie GS3246 - 2006
Electric - 11,75 Mtr. - 522 Hrs.
€ 6.950



V21510 - Haulotte Compact 12 - 2005
Electric - 12 Mtr. - 219 Hrs.
€ 5.500



V22002 - Liftflux SL 125-18E - 2000
Electric - 14,5 Mtr. - 381 Hrs.
€ 5.500



V22196 - Genie GS2668RT - 2006
Diesel 4x4 - 9,9 Mtr. - 2027 Hrs.
€ 8.250



V22150 - Genie GS3268RT - 2007
Diesel 4x4 - 11,75 Mtr. - 3117 Hrs.
€ 10.950



V21104 - Haulotte H125X - 2007
Diesel 4x4 - 12 Mtr. - 1706 Hrs.
€ 11.950



V17359 - Mec 3772RT - 2007
Diesel 4x4 - 13,28 Mtr. - 1120 Hrs.
€ 8.950



V21789 - Haulotte H15 SX - 2007
Diesel 4x4 - 15 Mtr. - 1861 Hrs.
€ 11.950



V19935 - Skyjack SJ12 - 2010
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€ 3.850



V21587 - Genie GR15 - 2007
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Electric - 8,2 Mtr. - 1174 Hrs.
€ 6.950



V20861 - JLG Toucan 1100 A - 2006
Electric - 11 Mtr. - 1150 Hrs.
€ 8.950



V19682 - JLG Toucan 1210 - 2003
Electric - 12 Mtr. - 1514 Hrs.
€ 9.500



V20844 - Haulotte HA12PX - 2008
Diesel 4x4 - 12,62 Mtr. - 2345 Hrs.
€ 13.950



V21880 - Haulotte HA16PXNT - 2005
Diesel 4x4 - 16 Mtr. - 3897 Hrs.
€ 13.500



V19158 - Manitou 200ATJ - 2012
Diesel 4x4 - 20 Mtr. - 1675 Hrs.
€ 42.500



V19897 - JLG 600AJ - 2007
Diesel 4x4 - 20,29 Mtr. - 3917 Hrs.
€ 28.500



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



V22000 - Aichi SR123 - 2002
Diesel 4x4 - 14 Mtr. - 5949 Hrs.
€ 18.500



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



V19665 - JLG 660SJ - 2005
Diesel 4x4 - 22,32 Mtr. - 5228 Hrs.
€ 21.500



V18729 - Haulotte H25TPX - 2005
Diesel 4x4 - 25,3 Mtr. - 4541 Hrs.
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DIESEL

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2005



12.52
METRE
650
HOURS
6
UNITS
AVAILABLE

BATTERY

Genie Z-34/22N €13500

2006



20.22
METRE
3000
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

Genie Z-60/34 €26950

2007



12.50
METRE
1500
HOURS
20+
UNITS
AVAILABLE
4WD

D
DIESEL

Skyjack SJ-7135 RT €11500

2006



11.58
METRE
400
HOURS
8
UNITS
AVAILABLE

BATTERY

Genie GS-3246 €8500

2007



17.07
METRE
2000
HOURS
12
UNITS
AVAILABLE
4WD

D
DIESEL

Skyjack SJ-9250 RT €17500

2014



14.00
METRE
400
HOURS
6
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

Hinowa 14.70 III S €26950

2010



13.00
METRE
2000
HOURS
2
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

CTE Traccess 135 €21000

2006



21.80
METRE
5000
HOURS
2
UNITS
AVAILABLE
TRACKED

D BATTERY
BI-ENERGY

Omme 2200 RBD €28000

2005



25.60
METRE
3000
HOURS
1
UNIT
AVAILABLE
4WD

D
DIESEL

Genie Z-80/60 €42500

2007



27.70
METRE
4000
HOURS
6
UNITS
AVAILABLE
4WD

D
DIESEL

Genie S-85 €49950

2008



21.97
METRE
3500
HOURS
5
UNITS
AVAILABLE
4WD

D
DIESEL

JLG 660 SJ €37,500

2008



26.21
METRE
4500
HOURS
10+
UNITS
AVAILABLE
4WD

D
DIESEL

JLG 800 AJ €55000

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4000
HOURS
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UNITS
AVAILABLE
4WD

D
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