

# cranes & access

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March 2015 Vol.17 issue 2

Mid-range  
AT cranes

ARA show  
review

Small electric  
& mast booms

Intermat  
preview

... Snorkel launches first telehandler...New 150ft Genie...Big new Tadano's spotted...



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## On the cover:

The operator of a Terex Explorer 5600 owned by German crane rental company Blüggel setting up the crane in a restricted area in preparation to remove a footbridge which crosses the Ruhr in Olsberg.



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to Gorinchem, Upgrade for Liebherr's LR1750, Hiab expands X-HiPro range, CMC ships first S19N and financials round-up.

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Cranes & Access takes a look at the pros and cons of the increasing number of single engine All Terrain cranes, and looks at how the concept is being accepted, as well as reviewing the latest models from the major manufacturers.

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When it comes to choosing a small boom lift the market is bulging with different concepts and alternatives.

This month we take a look at small electric powered booms including mast booms and also interview Daniel Duclos of ATN, who has been a major part of the development of mast booms since the late 1980s.

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With Intermat 2015 in Paris rapidly approaching, here is our second preview to the show, highlighting some of the new products and what to see.

**INTERMAT**  
Paris 2015

The next issue of Cranes & Access - scheduled for late April - will feature the IPAF Summit review, Cranes for wind turbine lifting, Spider lifts and the main Vertical Days Show Guide. If you have any contributions or suggestions, please contact our editorial team.



ARA show  
review 47

The American Rental Association's annual Rental show was held this year in the jazzy city of New Orleans, with the highest visitor numbers for many years. The show itself was one of the best of recent years in terms of new product launches.

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The UK's Executive Hire Show, held once again in Coventry, attracted more than 2,000 visitors this year. Here are the highlights.

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**"It is better to suffer wrong than to do it, and happier to be sometimes cheated than not to trust."**

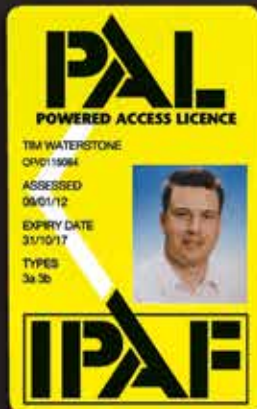
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## Too nice for our own good?

Watching the classic 1990s film 'You've Got Mail' recently, about two book shop owners (Tom Hanks the hard-nosed businessman from the mega-discount store and Meg Ryan the 'nice but naive' owner at a quaint local children's bookshop) and the phrase "business is business - it's not personal" is repeated numerous

times by Hanks when discussing putting other companies out of business.

As we all know the cranes and access market is a very personal industry. Almost every aspect of it involves co-operation with and trust of others - people do business with people - and not being personable and accommodating can put you at risk of losing out to the competition.

Our current online editorial is "Obey the rules or lose business?" while the online poll asks the question: "If faced with losing your business or joining competitors that misinterpret best practice guidance what do you do?" Both were in response to a letter received from a UK crane rental company, that we published last month, highlighting a conflict in the UK taxi-crane rental market, concerning the bending or breaking of rules/best practice guidance and standards.

With about 400 votes cast so far the vast majority (66 percent) said they would continue doing what they thought was right and hope to continue in business. Just 23 percent would blow the whistle on the wrong doers/corner cutters, while a surprising four percent would also bend the rules when they thought it was safe to do so, and eight percent would demand the rules be changed.

What does this say about the majority of us? That we stick to the rules and overlook other people's faults, transgressions and devious practices - even if it means losing and possibly going out of business?

Perhaps this is why companies that make a habit out of going bust without paying creditors are able to set up almost instantly, time and time again and still have a business renting and cross-hiring to many of the same people that were left unpaid. The saying 'once bitten, twice shy' springs to mind but so many people and companies are caught out time and time again.

Fortunately the vast majority of companies in our sector are 'legal, decent and honest'.

However there will always be an element that wants to take advantage of our good nature, cut corners and misinterpret legislation to their advantage. But they can only exist if the rest of us - manufacturers, rental companies, parts suppliers etc - continue to deal with them.

Going back to the film - perhaps we should 'go to the mattresses' (made famous in The Godfather) and be prepared to stand up and fight for what we believe is right?

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

## Vertikal Press

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## Genie unveils 150ft boom

Genie surprised visitors to this year's Rental show with the unveiling of the 150ft SX-150 telescopic boom lift. Simply put the new platform is an SX-180 with one less boom section.

It does however incorporate some improvements including a new one-piece lift-up cover, and four programmable platform height settings - 150, 135, 120 and 100ft - to help rental companies maximise rates. It reaches its 48 metre working height in less than three minutes, has a platform capacity of 340kg and more than 24 metres of outreach - 21 metres at a height of 36 metres. It has the same three metre rotating articulated jib as the SX-180 and is almost two tonnes lighter.

### So how does it stack up?

	Genie SX-150	JLG 1500SJ	Genie SX-180
Working height	48.3m	47.7m	56.86m
Outreach	24.38m	24.38m	24.38m
Max platform capacity	340kg	450kg	340kg
Unrestricted capacity	340kg	230kg	340kg
Jib/articulation/rotation	3.05m/135°/60°	4.6-7.6m/120°	3.05m/135°/60°
Stowed width	2.49m	2.49m	2.49m
Working width	5.03m	3.81m	5.03m
Transport length	13.0m	13.11m	12.98m
GVW	23t	22t	24.9t

Apart from working height, the SX-150 matches the performance of the SX-180. Compared to the 150ft JLG 1500SJ, it offers a little more height, more unrestricted platform capacity and jib rotation. However it is over 1.2 metres wider when working, while the JLG has a 450kg capacity at up to 41 metres height/19 metres outreach, with the versatility of a 7.6 metre telescopic jib.

## New JLGs

JLG says that it will launch more new products this year than in any year in its 45 year history. It began at the Rental show



JLG 5394RT

with three new boom lifts - the 400S and 460SJ straight booms and the new 450AJ articulated boom - and a 53ft Rough Terrain scissor lift, not to mention a completely redesigned line of North American telehandlers. The new booms offer higher capacities, more outreach, lower overall weight, new cast axles, Dura Tough covers, faster function speeds and modular power tracks, while engine speed constantly adapts to power demand to reduce noise and fuel consumption. The new models are also ready to meet new Ansi standards relating to overload control. See the Rental show review page 47.



JLG 460SJ



## Two big new Tadanos

A reader spotted a new six axle 300 tonne Tadano All Terrain crane at work in Japan. Designated the ATF 300G-6 the new crane fits between the current ATF 220G-5 and the ATF400G-6 and is clearly based on the ATF400G-6, with a similar chassis and 60 metre main boom, but different counterweight configuration.

The 300 has a maximum of 78 tonnes compared to 138 tonnes on the 400. The difference can be seen on the stability part of the chart, particularly at long radii. The 300 lifts its maximum capacity at 2.7 metres, but the rest of the



The new 300 tonne Tadano spotted in Japan

structural chart looks the same as for the 400. A range of boom extensions to 52 metres are available, but possibly not the luffing jib. Tadano declined to comment, but suggested that it may not market the crane in Europe.

We also received photographs of Tadano's new flagship crane, the 600 or 650 tonne, eight axle All Terrain-the ATF650G-8? Some crane buyers suggest a rating of 700 tonnes but Tadano declined to be drawn on the subject. The new crane - on test in Germany - has cruciform type outriggers with a curved profile for 'over deck storage'. The counterweight looks similar to the ATF 400G with high side weights, while the boom is unique. It has a small cross section for the size of crane, supported by two massive external multi-stage telescope cylinders with pin locking, standing wide on each side of the boom for increased lateral stability. The six or seven section boom will be topped by a long luffing jib option.

## Nine years to prosecute

In the UK the HSE has finally decided to prosecute Falcon Crane Hire Ltd and owner Doug Genge almost nine years after the fatal tower crane collapse in Battersea in 2006, which killed crane operator Jonathon Cloke and local resident Michael Alexa. The first hearing was held on February 25th.

## 8 Böckers for Ainscough

Ainscough Crane Hire has taken delivery of eight new Böcker AK44/4000 aluminium truck mounted cranes from UK distributor Kranlyft. Managing director Robin Richardson, said: "We trialled the AK44 last year, its unrivalled combination of compact design and versatility, generated positive customer feedback. This multi-purpose crane perfectly complements our current fleet."



The new  
Ruthmann TB270+



## New Ruthmann TB270+

Ruthmann will unveil a redesigned version of its 27 metre TB270 telescopic 3.5 tonne truck mounted platform - the TB270+ - at Intermat.

The redesign was needed because of the heavier Euro 6 chassis which are now beginning to come on line which naturally necessitate a lighter platform if the final vehicle is to remain the same weight. The new model can telescope to its full height with the maximum 230kg platform capacity and has up to 16.4 metres of outreach with its reduced 100kg capacity - almost two metres more than the machine it replaces.

Ruthmann says it has employed innovative steel fabrication techniques and incorporated the multi-bevelled boom and superstructure design already in use on its 22 metre TBR 220. The changes allow the TB 270+ to be mounted on the latest Mercedes Sprinter, VW Crafter, Nissan Cabstar and Renault Maxcity 3.5 tonne chassis.

## Merchant Master telehandlers

JCB has introduced a range of new Teletruk industrial telehandlers - the Merchant Masters - aimed at the builders' merchant market. The range includes two base models each available in two or four wheel drive versions - the three tonne/four metre 30DTCR and 30D4x4 with 3.32 metres of forward reach, and the 3.5 tonne/4.4 metre 35DTCR and 35D 4x4.

The Merchant Master specification includes a standard single pin carriage, a flashing beacon, greasing kit and reversing alarm. In addition to their forks, the handlers can be operated with bagging buckets, shovels, brick clamps and other specially designed attachments. Options include a choice of partial or full cabs, the JCB Changezee hydraulic quick-disconnect carriage - allowing the operator to swap attachments without leaving the cab - PPS industrial tyres for the 4x2 models and foam-filled lugged tyres for the 4x4s.



One of the new JCB  
Teletruk Merchant  
Master 35D

## Sany rebrands

Sany is changing the name of Sany Germany to Sany Europe, and changing its logo. The company says the change reflects its presence in Europe, where it is now represented in 13 countries. The company has also pulled out of Intermat having originally reserved its usual outdoor space.

C&A

news



The new Skyjack  
SJ86TJ

## Skyjack launches 86ft

Skyjack formally launched its new 82 and 86ft telescopic boom lifts, the SJ82T and SJ86TJ last month. The new booms - one with jib and one without - employ a mechanical rising boom support linkage, similar that that used on most other machines in the sector, which moves the machine's centre of gravity forward as the boom is elevated to improve forward reach and maintain stability, without adding weight. The SJ86TJ weighs 17,150kg.

The new machines feature dual platform capacity ratings of 454 and 227kg on the SJ82T and 341 and 227kg on the SJ86TJ. If neither is selected, the unit defaults to the higher capacity, but stops when it reaches the maximum outreach possible with that capacity, requiring the operator to choose one or the other. In Europe this is likely to be integrated into the platform overload system. Most of the rest of the machine shares the same principles as the company's other boom lifts, including 4x4 axle type drive, and relay-based control systems.



## So how does it stack up?

The SJ86TJ is expected to be the most popular of the two, due to its articulating jib, so we compared it with some of the other products already in the market, including one articulated boom, the new Niftylift HR28.

	Skyjack	JLG	Genie	Manitou	Niftylift
Model	SJ86TJ	860SJ	S85	280TJ	HR28
Work height	28.2m	28.2m	27.9m	27.75m	28.0m
Outreach	23.5m	22.9m	23.3m	21.45m	18.5m
U/R	227kg	230kg	227kg	240kg	280kg
Platform Cap					
Max capacity	341kg	230kg	227kg	350kg	280kg
Platform	2.44x0.91m	2.44x0.91	2.44x0.91	2.3 x0.9	2.4x0.9m
Jib articulation	125°	130°	135°	140°	150°
OA Length	10.6m*	11.6m*	11.6m*	8.04m*	7.3m*
Power	Diesel	Diesel	Diesel	Diesel	Diesel/ Hybrid
Drive	4x4	4x4	4x4	4x4	4x4
GVW	17.1t	17.2t	17.2t	16.5t	14.65t
Tailswing	1.42m	1.42m	1.42m	1.8m	1.4m

\* With jib tucked under

The Skyjack performs well against the competition, with the best outreach and working height, while being competitive with maximum capacity and tailswing. However while the articulated Niftylift HR28 has the shortest outreach - five metres less than the Skyjack - it is 2.5 tonnes lighter, is the shortest by some margin and boasts the greatest jib articulation.



# Six new Snorkels

Snorkel, now part of Don Ahern's Nevada-based Xtreme Manufacturing, unveiled its first telehandler and five new aerial lifts at The Rental Show last month. The 2.7 tonne/5.8 metre Snorkel SR5919 is the first model in a new line of Snorkel telehandlers. Measuring 1.8 metres wide and two metres high and with 3.4 metres forward reach, the compact telehandler is based on an Xtreme compact model, but with significant changes to suit a different customer base. It is said to offer good all round visibility from the choice of open or enclosed cabs.

Snorkel also unveiled a new four model family of 19, 26 and 32ft electric slab scissor lifts aimed, initially, at the North American rental sector. The new models feature a new scissor arm design, new dual/split swing out battery/machinery



Snorkel's first telehandler - the SR5919

trays, a new heavy steel deck and a new full width telescopic platform extension.

The company also showed the first in a new line of mid-size telescopic boom lifts - the 66ft 660SJ - with two metre articulated jib, all steel formed covers, fully proportional controls for all boom functions, and a new tri-entry platform design with saloon-style entry gates. All new booms will include the new 'Snorkel Guard' a simple secondary guarding system, as standard.

The new Snorkel S3219E scissor.



## Omni-directional platform

Bailey Specialty Crane has launched a new omni-directional version of its Brandon industrial crane/work platform. It has also changed its name to Bailey Specialty Cranes and Aerials, to reflect its entrance into the niche aerial lift market. All four wheels of the new battery powered machine can rotate through 90 degrees to provide any combination of movement, from rotating on the spot to moving sideways.

The work platform attachment will have a platform height of around 23ft, giving a nine metre working height. Outreach is more than five metres and platform capacity 227kg. The fork attachment has a capacity of 1,100kg.



The new Brandon Omni-directional platform from Bailey Specialty



Jonathan Till (R) of GT Access shaking hand with Tony Hobbs of Manitou.

## Manitou for GT Access

UK rental company GT Access has ordered 20 Manitou Rough Terrain articulated boom lifts, after securing £1 million in new bank funding from Santander. The order comprises a mix of 16 metre 160ATJs, 18 metre 180ATJs and 20 metre 200ATJ boom lifts. It has also ordered a number of Manitou's 160ATJ+s, which offer a larger working platform and an increased 400kg capacity.

Managing director Jonathan Till said: "The business has developed real momentum and we are excited about our plans for growth in 2015 and beyond. The funding support from Santander will be instrumental in driving our firm's future development."

## Terex launches free online lift planner

Terex Cranes has launched the Terex Liftplan - a free online lift planning tool for its customers to use with their lifting operations. Users can select from a range of Terex cranes and specify the load, height and radius of the lift involved. A copy of the lift plan is then available to print out. The tool can also be used on site on an ad-hoc basis, so should conditions change, the driver simply enters the new information and the system automatically recalculates.

Michael Klein of Terex said: "Historically, only customers with big machines and complicated lifts have used lift planning tools. Today this facility is available to anyone who uses a Terex crane, it will allow smaller jobs to be better planned and therefore safer. It might be the fleet owner contracted to carry out a particular project, or one of his hire customers needing information on site."



Terex Cranes has launched the Terex Liftplan - a free online lift planning tool for customers' lifting operations.

## Verticaaldagen moves to Gorinchem

Verticaaldagen Benelux - the Dutch crane and access event - is moving to a new location in Gorinchem - midway between Rotterdam and Utrecht - for this year's show scheduled for September 15th, 16th and 17th. With 12,000 square metres of external space it joins two other existing construction-related shows - Bouw Compleet (total construction) and Interieurbouw (internal construction) and will be held at the 'Evenementenhal' in the town. In 2016 a fourth show, Beton Vakdagen (concrete days), will join the event.



The Evenementenhal in Gorinchem



## Upgrade for Liebherr's LR1750

Liebherr has upgraded its 750 tonne LR 1750 crawler crane into the LR1750/2 with increased capacities and H-boom configuration.



Liebherr's new LR1750/2 has increased capacities and a H-boom configuration.

The boom changes are similar to those already incorporated in the LR1600/2's 'H' or Heavy boom configuration, which include strengthening the main boom and extending the derrick boom by seven metres to 38.5 metres. The company claims that the changes have increased the crane's capacities by up to 30 percent in some areas.

The suspended ballast trailer has also been modified to include a hydraulic drive system, while work at height safety features have been revised throughout the machine with improved guardrails and additional platforms/access points. All existing LR1750 components can also be used on the new LR1750/2.

## CMC ships first S19N units

Italian aerial lift manufacturer CMC has shipped the first four production units of its new 18.8 metre CMC S19N narrow spider lift to the UK - three to Lifterz and a fourth to Sheffield based Wilson Laidler - all supplied through Ranger Equipment.



Lifterz has taken delivery of the first three production units of CMC's new S19N spider lift

Featuring a twin sigma riser, two section telescopic boom and an articulating jib, the S19N has an outreach of 8.8 metres and a 230kg platform capacity - 150kg at maximum outreach. Up and over height is 8.5 metres, overall width 780mm and extended outrigger footprint 2.8 by 3.58 metres. Total weight is 2,500kg. Power options include Kubota diesel or Honda petrol engine with AC motor or a Lithium-ion pack. A hybrid diesel/electric system should be available shortly. The S19N shares most of its componentry and structural components with the smaller S15N, and will sit alongside the existing S19 model - now renamed the S19HD.



The S19N can achieve its maximum outreach of 8.8 metres with an up and over height of 8.5 metres

Hiab has announced another X-HiPro loader crane - the 80 tonne/metre X-HiPro 858



## Hiab expands X-HiPro range

Hiab has announced the latest in its X-HiPro heavy lift loader crane range - the 80 tonne/metre X-HiPro 858 - which has a maximum reach of 34.5 metres and 38 metre maximum height.

The company says the 858 has simple, easy to use controls and features a remote control display with an additional external display where the driver can see crane capacity information for each angle of the jib, depending upon the stability of the truck.

## Remote telehandler

Dutch façade panel and cladding specialist V.d. Tillaar Gevelmontage has taken delivery of a fully remote-controlled 360 degree Magni telehandler from distributor Collé Rental & Sales. The RTH 5.25S offers a 4.9 tonne maximum lift capacity and a 26.8 lift height.

All driving, outrigger and hydraulic functions can also be controlled from Magni's optional radio-controlled remote, including when using a work platform attachment. The boom must be fully retracted to control vehicle movements from the remote controller.

Company owner Ron Van den Tillaar, said: "Thanks to the user-friendly remote I can operate the telehandler from where the work is being done, eliminating the need for additional riggers. It makes work more efficient, the benefits speak for themselves."



Tillaar Gevelmontage has taken delivery of one of the first fully remote controlled Magni telehandlers

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# Mateco plans major investment

German rental company Mateco will purchase more than 1,100 new aerial work platforms this year. Specific details have not been provided however the company has said that it will also add new models - including three 180ft Genie SX-180 boom lifts - to its product range, as well as focusing on hybrid work platforms.

The orders will also include truck mounted lifts with working heights of 35, 40, 54 and 63 metres, as well as a substantial number of 3.5 tonne truck mounts.

Mateco chief executive Armin Rappen said: "Modern equipment is a top priority. Our customers benefit enormously from a young rental fleet and aerial work platforms up to five years old stand a better chance of meeting current safety standards than machines of 10 years old. We aim to bring the average age of our fleet down to less than five years."

Mateco runs more than 6,500 lifts and telehandlers from 38 locations across Europe. The new deliveries will take the fleet close to 7,000 units.



Mateco plans to add 1,100 aerial lifts to its fleet this year

# Potain Igo T85As for Mantis

UK-based self-erecting tower crane specialist Mantis Cranes has taken delivery of the country's first two Potain Igo T85A self-erecting tower cranes for its rental fleet.

The six tonne capacity T85A has an under hook height of 20 to 35 metres and can lift 1,250kg at its maximum radius of 45 metres. Features include wireless remote control and a new slewing/hoisting mechanism which Potain claims is capable of lifting loads of up to two tonnes 35 percent faster than previously.



With an under hook height of 20 to 35 metres the T85A can handle up to 1,400kg to a radius of 45 metres.

# Time celebrates 50th anniversary

Time International is celebrating the 50th anniversary of the founding of Time Manufacturing in Clifton, Texas, USA, with the launch of new Versalift aerial work platforms.

The five anniversary models are modified versions of its existing 13/14 metre van mounts intended for street light maintenance. Mounted on 3.5 tonne Mercedes Sprinter and Ford Transit chassis, the two 'Light' models feature a 90 degree articulating jib and an outreach of up to 7.2 metres with platform capacity of 200kg. Two 'Medium' models offer up to 7.9 metres of outreach and a maximum platform capacity of 230kg. They also offer up to 110 degrees of jib articulation. The final model - mounted on a five tonne Mercedes Sprinter chassis - has 230kg platform capacity. Features on all models include a lightweight sub-frame, 360 degree slew and dual joystick controls.



The ETL-36-130-F mounted on a Ford Transit chassis is one of the five models launched

# MEC unveils 60ft boom

	MEC 60J	JLG 600S	Genie S60	Skyjack SJ61T	Haulotte HA20PX
Working height	20.3m	20.4m	20.3m	20.5m	20.65m
Capacity	227kg	230kg	227kg	227kg	230kg
Outreach	13.0m	15.1m	15.48m	15.6m	13.5m
O/A length	9.30m	8.51m	8.46m	9.25m	8.93m
GVW	8.1t	10.8t	9.7t	10.6t	11.7t
Jib	Yes	No	No	No	Yes

MEC launched its new 60ft straight boom, the 60J at The Rental Show in New Orleans last month. The company has designed the new machine to be simpler and easier to transport than machines of the same working height.

It employs a single stage over-

centre riser, hydraulically linked to the main boom, which rises or lowers proportionally with the boom angle, shifting the boom pivot point forward as the main boom angle increases. The longer riser and standard jib allows the machine to reach its full height with a two section boom, eliminating the

need for chain or cable extensions. Most competitor machines are 60ft models to which jibs have been added, converting them to 66ft models. Total weight is just over 8.1 tonnes, allowing two machines to fit on a trailer in the USA. The company says that most buyers now specify an articulating jib, by



The new MEC 60J

including this in a 60ft machine it can keep the weight down and bring the boom in at a price said to be a good 10 percent below competitor's machines without compromising margins. NES Rentals claims to have agreed an exclusivity deal for the 60J for 2015.





One of the cheap copies of a Terex Demag CC2500

## Terex issues counterfeit warning

Terex has issued a new warning regarding counterfeit Terex/Demag cranes, this time emanating from South Korea.

Similar to previous reports, the counterfeit models are being assembled from a mix and match of older and newer components not designed to work together, and can usually be spotted by poor weld quality, inferior structures and improperly fitting tracks. They are being sold as used Terex cranes, often in classic red or white livery. The CC 2500-1 lattice boom crawler seems to be the crane most commonly forged. The company has stressed the importance of conducting a thorough inspection of any used crane. Should anyone have any concerns over the authenticity of a crane they can contact: [Klaus.Meissner@terex.com](mailto:Klaus.Meissner@terex.com)

## UK distributor for Imer Access

Imer Access/Iteco has appointed **Cumberland Platforms** as its distributor in the UK for its full product range.

Cumberland is now responsible for the entire range of Iteco push-around and self-propelled scissor lifts, spider lifts, mast boom and truck mounts. It will offer sales, service, repair and spare parts for the full range of new and existing products.



(L-R) Paul Murphy of Cumberland with Paolo Pianigiani of Imer and Michaela Murphy



## Liebherr rescue sheets

Liebherr is now providing rescue sheets as standard on all LTM and LTC cranes which comply with stage 3b or higher emissions, in order to assist with the safe recovery, and enable the fast rescue of trapped driver/passengers following an incident.

The rescue sheet provides detailed information about the structure of the crane, cab, fuel and oil as well as the best places to cut the bodywork open in order to free those trapped.



## New Leguan for Vertikal Days

Leguan Lifts of Finland, the sister company of Avant Tecno, will launch production units of its new 13.2 metre tracked and wheeled boom lifts at Vertikal Days, this May.

The compact Leguan 135 has a single riser, two section telescopic boom and a 120 degree articulating jib with 6.8 metres of outreach and maximum capacity of 230kg.



The wheeled version of the new Leguan 135.

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## Record year for Wacker Neuson

Austrian telehandler and light equipment manufacturer Wacker Neuson reported 2014 revenues up 11 percent to a record €1.28 billion, while pre-tax profits increased almost 48 percent to €13.1 million.



## Lower profits at Neff

US rental company NEFF which went public in November, has reported a 14 percent rise in full year revenues to \$372 million, while pre-tax profits dropped almost 85 percent to \$10.4 million due to restructuring charges of around \$36 million.



## Riwal renews and expands credit lines

Riwal, the aerial work platform and telehandler rental specialist, has signed a new €220 million syndicated credit facility, along with an optional €40 million additional credit line.



## Haulotte triples profits

Haulotte confirmed revenues up 20 percent at €412.6 million and net income of €29 million, its highest profit since 2008 and more than triple last year's 9.01 million. Net debt increased by €32.5 million to €74.1 million, due to higher working capital demands as it ramps up production.



## Further profit falls at Manitex

Manitex has confirmed full year revenues up 7.8 percent to \$214.1 million, while pre-tax profits fell 27 percent to \$10.6 million due to higher costs from the acquisitions, re-organisation and higher interest costs.



## Dingli float

Chinese aerial lift manufacturer Dingli - officially Zhejiang Dingli Machinery - has listed on the Main Board of the Shanghai Stock Exchange.



## Strong finish for Bronto

Finnish truck mounted lift manufacturer Bronto has reported a strong fourth quarter with full year revenues up marginally at \$139.4 million, while operating profits dropped by a two thirds to \$3.9 million due to an unfavourable product mix and exchange rate conversions. Order intake for the year was \$150 million, up 15 percent on the year.



## Ashtead continues to soar

Ashtead, owner of Sunbelt Rentals in the USA and A-Plant in the UK saw nine month revenues jump 23 percent to more than £1.5 billion, while pre-tax profits soared 33 percent to £369.1 million. Sunbelt revenues climbed 24 percent to just over \$2 billion, while operating profits increased almost 31 percent to \$646.9 million. A-Plant revenues increased 20 percent to \$242 million, while operating profits leapt more than 76 percent to £37.7 million.



## Decline continues at Tat Hong

Singapore-based international crane rental and distribution company Tat Hong has reported nine month revenues down 11 percent to \$272 million, while pre-tax profits slipped eight percent to \$36.7 million. Crane rental fell five percent to \$191.2 million, tower crane rental in China grew 12 percent to \$74.1 million, while general rental fell 16 percent to \$44.9 million and distribution declined 22 percent to \$161.7 million.



## Hertz up 2%

Hertz Equipment Rentals has reported full year revenues up two percent to \$1.57 billion but it is still holding back on any 2014 financial results while its ongoing investigation continues.



## Record year for H&E Equipment

US-based sales/rental company H&E Equipment managed a 10 percent rise in revenues for 2014, to \$1.09 billion, while pre-tax profits rose more than 42 percent to \$92.7 million.



## Lavendon results impaired by write-offs

Lavendon has confirmed revenues of £246.3 million, and reported pre-tax profits of £21 million down from £23.4 million in 2013, due to £11.1 million of write downs, including an £8.8 million goodwill write-off in Belgium. Underlying pre-tax profits improved 14 percent to £34.1 million.



## Orders tick up at Terex Cranes

Terex Cranes has reported 2014 revenues down seven percent at \$1.79 billion, while operating profits fell more than 22 percent to \$85.9 million. The backlog at the end of the year was \$538.5 million, more than seven percent up on the year.



## Profit slide for Genie

Genie/Terex AWP has reported full year revenues up 11 percent at \$2.37 billion, but operating profits fell seven percent to \$302.8 million. The backlog at the end of the year jumped from \$294.4 million at the end of 2013 to \$698.4 million.



## Tadano up 15%

Tadano has reported a 15 percent increase in nine month revenues to ¥145.1 billion (\$1.2 billion), including an 18 percent rise in mobile crane sales to ¥97.4 billion (\$822 million). Net profit jumped almost 40 percent to ¥14.5 billion (\$119 million).



## Manitou quadruples profits

Manitou has confirmed revenues six percent higher at €1.25 billion, while pre-tax profits increased almost five fold from €8.2 million in 2013 to €40 million last year. Net debt increased 15 percent to €97.5 million.



## 23% jump for Skyjack

Skyjack/Linamar's Industrial division reported 2014 revenues of C\$692.3 million (\$555 million), an increase of 23.3 percent on 2013. Operating profits for the period more than doubled to C\$109.7 million (\$88 million). The higher profits are due to favourable exchange rates, positive model mix and higher volumes, offset by increased sales and management costs to support growth.



## Tough end to 2014 for Mills

The rental division of Brazilian company Mills which is made up of aerial lift and telehandler rentals saw revenues for the full year 2014 improve 3.8 percent to R\$370.8 million (\$119.1 million) in spite of lower rental rates, thanks to a larger fleet and better utilisation. However operating profit for the year fell around 18 percent to R\$115.8 million due mainly to higher depreciation costs. Revenues and profit dipped substantially in the fourth quarter.







King Lifting's SK599-AT5 mobile tower crane at Spierings plant in Oss

## Spierings for King

UK crane rental company King Lifting has taken delivery of a new Spierings SK599-AT5 mobile tower crane. The five axle SK599 can lift 1,900kg at a radius of 50 metres to a maximum height of 56.3 metres with the jib luffed at 30 degrees. It is also able to lift its nine tonne maximum capacity to a radius of 12 metres.

Director Tristan King said: "We operated an SK599-AT5 for six years, having inherited one from the acquisition of ACE cranes and plan to invest in further units."

Spierings says it hopes to deliver twice as many cranes in the UK this year, having sold five in 2014.

## Custom-built Versalift

UK energy provider Electricity North West has taken delivery of a custom-built Versalift track mounted boom lift which uses the superstructure from the 13.8 metre articulated LAT-38-140-H, mounted on a Takeuchi TCR50 undercarriage. The lift offers an outreach of 6.4 metres and platform capacity of 230kg. Features include low ground bearing pressures, A-frame outriggers and full hydraulic controls. Electricity North West owns and operates the distribution network in the North West and will use the lift to reach power lines over difficult terrain.



The custom track mounted Versalift in action



Penny Hydraulics has launched a new range of fully hydraulic PH Cranes

## New cranes from Penny

Penny Hydraulics is launching a new range of fully hydraulic PH Cranes aimed at the one to 18 tonne commercial vehicle market.

The new cranes have load moments of up to five tonne/metres with up to 6.83 metres of reach. Options include full stability control, high speed hoists and radio remote controls. The cranes can be powered by either a 12 or 24 volt battery or PTO, are manufactured from the latest high strength steels - including Domex and Weldom - to keep weight down and are designed with compact dimensions to maximise usable space on the vehicle.



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- Rental company **AH Lift** has purchased the first two **Niftylift HR28 Hybrid boom lifts** in Denmark.

- Bronto** is relocating **Andre Kunwald** to the UK as service support engineer, and promoting **Aku Tuominen** to UK service and parts liaison support manager based at the factory in Finland.



**Aku Tuominen**

- Palfinger** and truck manufacturer **Kamaz** have begun their joint ventures in Russia.
- US-based **Essex crane** has delayed the release of 2014 results.

- Tonhouth Crane Hire** in the UK has taken delivery of its first new **Liebherr** crane.

- Dennis Doornbos** of Dutch rental company **Doornbos Equipment** has died.

- Advanced Access** in the UK has taken delivery of a further six **Niftylift boom lifts**.

- Iron Planet** has appointed **Debbie Schleicher** as chief financial officer.



**Debbie Schleicher**

- Ritchie Bros** is selling the **Energy Crane** fleet in Casper, Wyoming.

- Link-Belt** has appointed **Eqstra Industrial Equipment** as its distributor for Southern Africa.

- Skyjack** is celebrating its 30th anniversary with **30 for 30 Partners**.

- Battery additive manufacturer **ThermOil** has appointed **IPS** as its UK distributor.

- Crowland Cranes** of the UK has added a **Grove GMK3060** to its fleet.

- UK rental company **RKP** has purchased a 20.1m **Multitel MJ201 truck mounted lift**.

- Flextrack** of Denmark has appointed **AMI** as its UK distributor.

- Outreach** of Scotland has appointed **Ian Valentine** as general manager, sales.



**Ian Valentine**

- Liebherr Maritime Cranes** has launched a 308t mobile harbour crane, its largest to date.

- Dutch rental company **HWS** has ordered a large number of **JLG** and **Genie** aerial lifts.

- Bangkok Airport** has taken delivery of four 32m **TCA Falcon FS320Z spider lifts**.

- Bonfiglioli Riduttori** has acquired the wheel/track drive product lines of **Comer Industries**.

- Stoddart Crane Hire** in the UK has taken delivery of a **Tadano ATF130G**.

- Crane Industry Services** of Atlanta, Georgia, has appointed **Gary Lloyd** as Crane & Rigging Specialist.



**Gary Lloyd**

- Green Access Platforms** in the UK has appointed **John Corrie** to grow the business.

- Elavation** of the UK is donating revenue from a new boomlift to the Tayan's Project charity.

- Speedy** has opened a national distribution centre in Tamworth, UK.

- Dutch rental company **Arentis** has taken delivery of a **Genie SX180 boom lift**.

- Hong Kong has certified its first female crane operator, **Janet Wong**.



**Janet Wong**

- Genie** is fitting new aerial work platforms with standard telematics connectors.

- JLG** has promoted **Michael Brown** to vice president of sales/market development South America.



**Michael Brown**

- Highcliffe Engineering** has taken delivery of a **Tadano ATF 40G-2 All Terrain crane**.

- SafeWorks/Spider** has appointed **Jacob Bergstresser** as Chicago sales manager.

- AFI** has acquired the assets of **Astra Training** from the administrator.

- UK crane man **Bob Dickey** passed away following a long illness.

- Covema** has been appointed **Manitowoc** and **Grove** crane distributor for Argentina.

- German rental company **Gardemann** has appointed **Dietmar Müller** as managing director.



**Dietmar Müller**

- Tree specialist **Reischl** has taken the first **Almax Italia Bibi 510-A scissor lift** in Austria.

- Bobcat/Doosan** has opened a new Middle East and Africa parts depot in Dubai.

- IPAF's** 2014 Professional Development Seminars attracted 720 instructors.

- Tat Hong** has sold and leased back properties occupied by Australian subsidiary **Tutt Bryant**.

- Høydespesialisten** of Norway has taken delivery of four **Unic spider cranes**.

- Ruthmann** has appointed **Markus Jöhren** as innovation manager.



**Markus Jöhren**

- Burt Crane & Rigging** of New York and New England has acquired **Biondi Rigging**.

- Stirimann**, the **Potain** and **Grove** distributor in Switzerland has added Austria to its Potain territory.

- Germany's **H&M Arbeitsbühnen** has purchased a **Palfinger P240AXE truck mounted lift**.

- AJ Access Platforms** has ordered a large number of big **Holland Lift scissor lifts**.

- Avesco Rent** of Switzerland has added 40 **Bravi Leonardo HDs** to its fleet.

- Wolffkran** has appointed **Dieter Reuberger** as MD of its Austrian subsidiary.



**Dieter Reuberger**

- Mavebo** of the Netherlands has added two **Unic spider cranes** to its fleet.

- Dutch rental company **HWS** has taken delivery of a 60ft **MEC 6092RT scissor lift**.

- MOBA** has opened a subsidiary in Brazil and is building a new production hall in Germany.

- Linden Comansa** has appointed **Craneway** as its Norwegian distributor.

- AFI Resale** has sold its 3,000th aerial work platform.

- Snorkel** has promoted **Matthew Elvin** to chief executive.



**Matthew Elvin**

- JMS Access** of the UK has added a number of **Skyjack scissor lifts** and a 185ft **JLG 1850 boom lift** to its fleet.

- UK-based **Avon Access** has taken delivery of **Hinowa Performance IIS spider lifts**.

- Haulotte** has opened its new premises in Eschbach, Germany.

- South Australia-based **Fleurieu Cranes** has received the country's first **Grove GMK6400**.

- The UK **HSE** has appointed **Peter Baker** as chief inspector construction.



**Peter Baker**

- Allison Transmission** is celebrating 100 years in business.

- German steel erector, **Metallbau Nottrott** has purchased a **Tadano HK65 truck mounted crane**.

- NES Rentals** has agreed an exclusive supply deal for the new **MEC 60J boom**.

- A new company in Chile, named **Vertikal** has ordered a new 90 metre **Bronto Skylift S90HLA**.

- Southern Cranes** has taken delivery of the UK's first **Terex Explorer 5600**.

- Ivor Kiddle**, founder of UK based **Quinto Crane** has died.

- Gardemann** has ordered 450 scissor and boom lifts as part of its fleet renewal programme.

- Mayes Access Platform Services** of the UK has purchased two **Versalift 36LF van mounts**.

- ALL Erection & Crane Rental** in the USA has ordered 17 **Tadano RT and AT cranes**.

- UK rental company **UPA** has added **Haulotte Star 10 mast booms** to its fleet.

- Coussens** crane hire in the UK has taken a **Terex 3160 Challenger All Terrain**.

- Terry Duxbury** owner of the **Lifting World** website has died.



**Terry Duxbury**

- Ghanaian rental company **Mobicrane** has received the first **Grove GMK6400** in Africa.

- Height for Hire** Scotland, part of **IAPS**, has rebranded as **Specialized Access** under **Leigh Baker**.

- Frank Bardonaro** has established an **SC&R Foundation Scholarship** in memory of his father.

- New Zealand crane hire veteran **Rex Pollock** has died after a long battle with cancer.

- German crane rental company **I&H** has taken delivery of a **Tadano ATF 400G-6 All Terrain crane**.

- Cramo** has acquired the assets of **Visby Hyresmaskiner** of Gotland, Sweden.

- Platform Sales & Hire** in the UK has opened an engineering/refurbishment centre.

- US rental company **Neff** has promoted **Westley Parks** to chief operating officer.



**Westley Parks**

- France's **Locnacelle** has purchased six **Ruthmann truck mounted lifts**.

- Isoli** has launched a Nordic version of its **PT200 telescopic truck mount**.

- MEC** has appointed **Everett Lee** as dealer support manager for the US Central and Eastern regions.

- Quinto Crane & Plant** has appointed **Richard James Cross** as business development manager



**Richard Cross**

- Germany's **Hoffmann** has taken delivery of two **Airo XL14 RTD scissor lifts**.

- Socage** has established a subsidiary - **Socage Do Brasil** - in São Paulo.

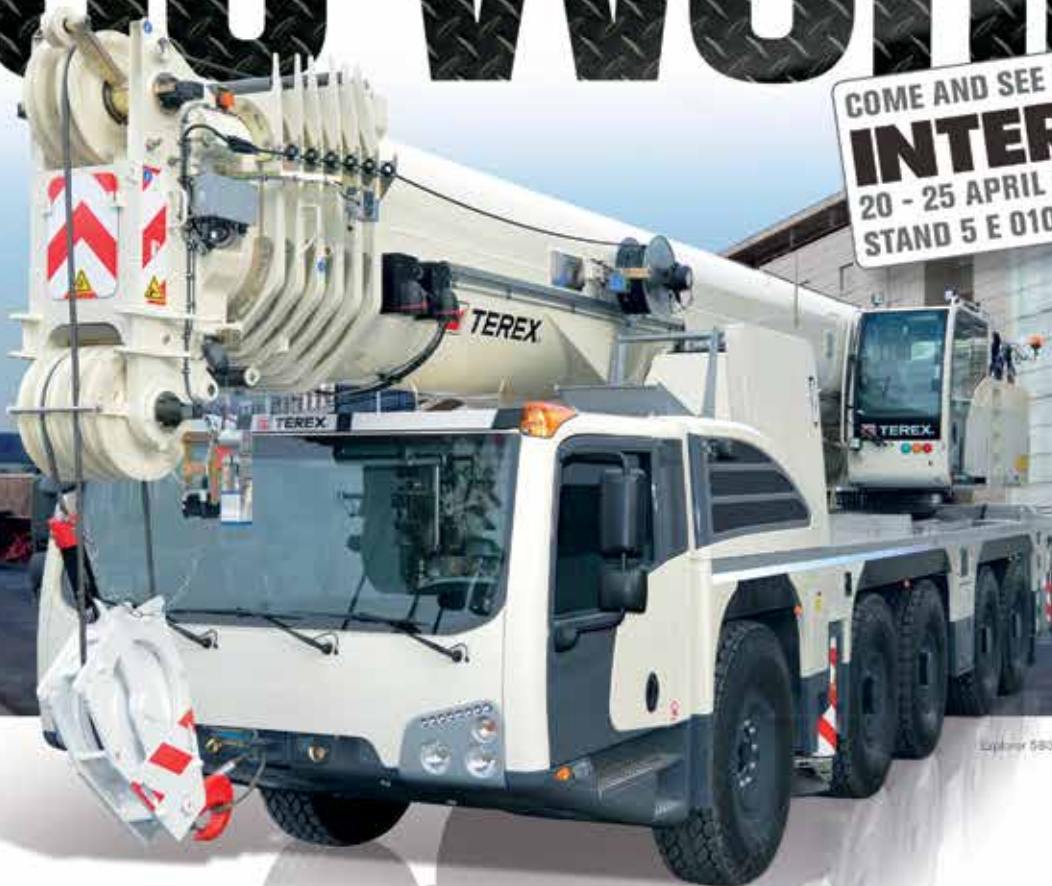
- US-based **Highway Equipment** has acquired **Scott-Gallaher** of Roanoke, Virginia.

- Ravago Equipment Rentals** of the Philippines has received a new **Tadano GR-1450EX Rough Terrain**.

- HMF** has recruited **Bernd Bourdache** and **Maurice Kunze** to its German field sales team.

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# Little and not so large...

In our feature on All Terrain cranes a year ago the main debate in the mid-sized AT market was one engine or two? While the single engine theme has gathered a little pace with the launch of several more cranes of this type, it is still perhaps too early to tell if the concept that will become the norm on cranes in the 130 to 400 tonne range or not - Tadano in particular is totally against the single engine idea on anything but the smallest models. However as the major manufacturers have updated their ranges - some feature a single engine, some not - crane buyers now have even more choice.

First up is Terex which recently announced the Explorer 5500, the third in its 'single engine' range which includes the 130 tonne 'capacity class' 5500, the 160 tonne 5600 and the 220 tonne 5800 Explorer. Liebherr launched a new single engine 160 tonner at Conexpo last year, continuing its single engine theme started by the 300 tonner launched at the previous Bauma.

Terex, Manitowoc and Liebherr now all have larger single engine models, but while there are more single engine models available,

twin engine ATs still account for the majority of sales in the 130 to 400 tonne sector. Grove was the first manufacturer to adopt a modern single engine crane, unveiling its 400 tonne GMK6400 in 2010 although it did take some time to reach production and go into service.

Tadano is adamant that there are more benefits for customers in using the traditional two engine design. The company maintains that a smaller superstructure engine is much more efficient than powering the crane from the larger carrier engine which is grossly oversized for the job in hand. It would appear that a good number of customers agree with Tadano's philosophy,



Terex Explorer 5500



A Grove GMK 6300L lifting a four axle Tadano from the moat of the Tower of London



The new Tadano ATF 300G-6 spotted working in Japan

as the company is enjoying strong sales which, following the introduction of its largest crane at Bauma in 2013 now extends from 40 to 400 tonnes. The Japanese manufacturer is also busy adding to its larger capacity range, with a new 300 tonner spotted in Japan recently, while its long-rumoured and long-awaited bigger brother has been seen by a few select customers, and photographed on test at its German facility. Its final nominal capacity appears to be up for debate, but will almost certainly be in the 600 to 700 tonne range.

#### New Tadanos

Meanwhile Tadano has also launched two new mid-range cranes - the 70 tonne ATF 70G-4 and the ATF 100G-4 - both of course using dual engines which it says will 'save considerable amounts of fuel, as well as increasing the engine's

service life and improve resale values'.

The ATF 70G-4 is basically the same as the existing ATF 70G-4, apart from its longer 52.1 metre main boom. An additional 1.5 tonne of counterweight has also been added giving a total of 16.5 tonnes, improving its capacities throughout the chart. The counterweight has been designed so that the crane can operate in both 10 and 12 tonnes per axle configurations, unlike the previous 70G-4 which needed additional counterweights.

Both the 100G-4 and the long boom 70G-4 use Euromot 4 engines in the carrier and superstructure, reducing particle emissions by 90 percent compared with 3a engines. Toxic nitrogen oxides are also reduced by about 80 percent.

The new ATF 100G-4 is the updated successor of the ATF 90G-4 and



has many features in common with the new ATF 70G-4, such as counterweight segmentation giving more flexibility with axle loads. It also features asymmetric outrigger configurations as standard, which controls lifting capacity based on the individual outrigger extensions. Engine-wise the new ATF 100G-4 is the first Tadano AT with the new Tier 4f engines in both the upper structure and chassis.

Tadano has also been playing catch-up in the big All Terrain market, the six axle 400 tonne ATF 400G-6 was launched in 2013 with a 'Heavy Duty Power System' and range of extensions including a 76 metre luffing jib. With a maximum tip height of more than 120 metres, the ATF 400 has a maximum radius of 86 metres with some impressive duties, such as 54.6 tonnes at 20 metres. However the crane seems to have been slow to take off, but that now seems to be gaining some momentum, with a good number of machines shipped in the past 12 months.

Slotting between its previous largest crane - the 220 tonne ATF 220G-5 - and the 400G-6 is a new six axle 300 tonne ATF 300G-6. Spied in Japan but not officially launched, the crane looks like a lighter weight version of the 400 tonner with the same or very similar chassis and 60 metre main boom with a new more

compact 78 tonne counterweight configuration, compared to the 138 tonnes on the 400G-6. A range of boom extensions, including the luffing and offset swingaways with additional inserts to 52 metres, will definitely be available, but we are unclear on whether the full luffing jib will be an option or not.

### New flagship

As we have already said the company is also working on a new range topper, which is most likely to be a 600 or 650 tonner, mounted on a new eight axle chassis with swing out cruciform-type outriggers with curved profiles for 'over deck' storage, similar to several other large modern cranes. The most remarkable feature though is a radical new boom design, with a relatively small boom section profile supported by two massive external multi-stage telescope cylinders, one either side of the six or seven section boom. The cylinders stand well clear of the boom, to provide better lateral support, possibly replacing the need for cable supported superlift? The cylinders also appear to feature pin locking systems, on the lower four sections. A long heavy duty luffing jib option is also on test. The counterweight looks very much like that on the Tadano ATF 400G, with side weights stacked high on either side of the boom pivot point.

### Liebherr

Liebherr is of course the leading producer of All Terrains, having produced its 30,000th unit mid-way through last year, the last 10,000 of them built in the past eight years. Currently it claims a 48 percent share of the worldwide All Terrain market, although the reality might be slightly lower, as it is almost certainly based on German All Terrain shipments, is almost the entire market, but not quite 100 percent of it. Last year it built 1,416 cranes at its plant in Ehingen, most of them All Terrains.

### 300 tonne single engine

Production units of Liebherr's 300 tonne, six axle single-engine LTM1300-6.2, launched at Bauma in 2013, began to go into service last year, with the company still working on its launch orders, including a unit delivered in January to King Lifting, in the UK. At Conexpo last year the manufacturer added the five axle, 160 tonne LTM1160-5.2 which also uses the carrier's

Crowland Cranes took the UK's first Tadano ATF 100G-4



six cylinder engine to power the superstructure via mechanical shafts. The superstructure on the older LTM 1160-5.1 was powered by its own smaller four cylinder engine. Liebherr claims that a single engine reduces the weight of the crane by 700kg, and makes it significantly easier to update power units to meet changing emissions regulations (probably the main reason why manufacturers are adopting single engines), while reducing maintenance. Customer feedback from the single engine LTM 1300-6.2 that have already been delivered is very positive. "The main concern of our customers using only one engine was higher fuel consumption during crane work," says Liebherr. "However by using a mechanical shaft, Ecomode and engine management systems, the new crane needs even less fuel than a comparable two engine crane of the same class."

King Lifting's LTM1300-6.2 includes the full 70 metre luffing jib, with adapter to utilise the sections to make up a 42 metre fixed jib, along with hydraulically offset 22 metre bi-fold swingaway extension with, two seven metre extension sections. All of which adds to the crane's 78 metre main boom. The crane has four main outrigger positions, fully retracted, half extended, three quarters and fully extended, but is fitted with Liebherr's Variobase system which we have covered in depth before, but in a nutshell assesses the extended position and support force of each outrigger and calculates the load chart available for that particular set up.

All Liebherr cranes on show at this year's Intermat exhibition will be fitted with the Variobase system, including the LTM 1160-5.2 which makes its European debut. The crane is said to offer a 20 to 25 percent increase in capacities, the same 62 metre boom length, and is narrower at 2.75 metres wide.

With its 10.8 to 19 metre bi-fold swingaway extension and additional extensions, the LTM 1160-5.2 can achieve a 99 metres lift height, and work at a 78 metre radius. Maximum counterweight is 54 tonnes and it can achieve 12 tonnes an axle with its swingaway, three sheave hook block and storage box.

### Terex Explorers

Another single-engined mid-range AT launched at Conexpo and now being delivered to customers is Terex 5600 Explorer, although the latest and smallest model in the range is the 130 'tonne class' 5500 Explorer, featuring a 60 metre main boom with an 11 to 21 metre bi-fold offsetable swingaway, that can be extended to 33 metres with an extension between boom nose and swingaway. Maximum tip height with extension and folded swingaway is just over 86 metres and it can telescope up to

King Lifting's single-engine LTM1300-6.2 has a 70m boom



The 160 tonne Liebherr LTM 1160-5.2 at its Conexpo launch





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24.5 tonnes. Outrigger extension positions include fully retracted, half and full seven metre extension.

Terex claims that the five axle carrier is the most compact in its class, being just 12.1 metres long, while the crane has an overall length of 14.3 metres and a width of 2.75 metres. In driving mode the Explorer 5500 has a dynamic launch control function, which prevents it from rolling backwards when moving on sloping ground. The crane also has many configurable features, allowing it to comply with various road regulations, including a removable main boom and a maximum front overhang of 1.52 metres.

All components for the Explorer 5500 can be transported on a single support vehicle, and a new rapid counterweight installation system makes it quick to set up. Like its two larger brothers, the 5500 uses just one engine a Euromot 4 and Tier 4 (final) diesel. The engine control system automatically recognises demand and switches from high power for travel, to energy-saving mode during crane operation. Moreover, the system also has an

energy-saving start/stop function. A smaller Euromot 3a/Tier 3 engine is also available for some export markets.

The operators cab has improved visibility and can be tilted up to 16 degrees with touch screen displays providing data such as tyre pressures, brake system and suspension system status. And for easier maintenance the service points are more accessible - for example the diesel and DEF tanks can be conveniently reached from the ground.

### Explorer 5600

The Terex Explorer 5600 has many of the features seen on the smaller Explorer 5500. The five axle crane has a 68 metre main boom with a 95 metre maximum tip height and can telescope with 35 tonnes. The crane's outrigger base is one of the largest, at 8.14 x 7.5 metres. The 5600 uses a single 405/265 KW (road travel/operation) Euromot IV/Tier 4 final compliant diesel and a new electrical braking system, which the company says offers improved braking performance with reduced brake pad wear compared to cranes without the system, and

Largest of the Terex Explorer range is the 220 tonne class Explorer 5800



dynamic launch control supporting the driver when starting upwards on a hill.

Numerous safety features include improved work at height protection, an optional xenon working lights package and cameras covering the load, tail swing, hoist and off-side for all round visibility from the cab, which includes 20 degrees of tilt.

### Grove successes

Over the past year or so, Grove has been very quiet on the new crane front, however what it has been doing is selling rather a lot of its 300 and 400 tonne All

Terrains - the GMK6300L and the GMK6400 - built at its facility in Wilhelmshaven, Germany. The two cranes are said to be the best selling cranes in their class, with more than 200 GMK6300Ls and 50 GMK6400s sold by last summer after entering production in 2011 and 2013 respectively.

Why so popular? Well the GMK6300L has the longest boom in its class, at 80 metres and the GMK6400 has a 60 metre boom that can be extended to 134 metres with a luffing jib. Both cranes have proved a big hit with customers around the world, encouraging

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many crane companies to buy Grove for the first time, or in most cases, the first time for a very long time. The GMK6300L has been sold in 27 countries on four continents, while the GMK6400 can be found working in France, Germany, Switzerland, the Netherlands, Denmark, Russia, New Zealand and the USA.

As well as the cranes' performance, quality is also being mentioned by customers, this may well be down to the delay on putting the machines into production, and perhaps the fruits of the company's new component test laboratory in Shady Grove? The facility in Wilhelmshaven has also made a significant investment

in new welding technology for the GMK booms.

According to Michael Hüneke, welding director for Manitowoc in the region, the new laser-hybrid welding and cutting machine which replaces the previous submerged-arc unit, offers a level of precision that delivers noticeable improvements for customers using the cranes on site. "To our knowledge, this factory is the only one in the mobile crane industry to use this cutting-edge welding technology," he says. "The advantages include less manipulation of the steel prior to forming the boom, which helps maintain and prolong the structural integrity of the steel we use. It also



The Terex Explorer 5600 has the longest boom (68m) in its class

**How the new Liebherr and Terex 160 tonners compare**

	Liebherr LTM 1160-5.2	Terex Explorer 5600	Grove GMK 5170-1	Tadano ATF180G-5
Max capacity t @m	160t @ 3m	111t @ 3m	125t @3m	180t @ 2.7m
Main boom	62m	68m	64m	60m
Max capacity/radius	1.5t @62m 3.0t @ 56m	1.8t @ 58m 2.7t @ 54m	2.0t @ 60m 3.1t @ 56m	3.1t @ 56m
Overall LxW	15.67 x 2.75	14.37 x 2.75	15.79 x 2.99	15.13 x 3.0
Max tip height	99m	95m	100m	99m
Axles	5	5	5	5
Gradeability	55.7%*	53%	50%	61%*

\*445/95 R 25 16.00 R 25

**How the new 130 tonners compare with Grove and Tadano**

	Liebherr LTM 1130-5.1	Terex Explorer 5500	Grove GMK 5130-2	Tadano ATF130G-5
Max capacity	130t @3m over rear	91.8t @3m	130t @3m	99.7@ 3.5m
Main boom	60m	60m	60m	60m
Max capacity / radius	1.8t@56m	1.6t@ 54m	2.0t @ 60m (3.1t @ 56m)	3.1t @ 56m
Overall LxW	15.48 x 2.75	14.3 x 2.75	15.79 x 2.99	14.85 x 2.75
Max tip height	86m	86m	85m	99m
Axles	5	5	5	5
Gradeability	Over 60%	64%	50%	61%



Manitowoc engineers celebrate major Grove milestones

uses less material than before and is much faster with less preparation before starting to weld."

Previously, the Grove GMK5095's boom shells were welded manually or semi-automatically. Today, Manitowoc's new laser-hybrid welding process joins the upper and lower shell of the boom robotically. While maintaining the same strength, this process reduces the need for filler material by up to 120kg on a 60 metre boom. With the laser-hybrid welding and cutting system there is no tack welding of backing strips, submerged arc welding or straightening required, which improves the production rate and requires lower heat input.

**One or two?**

It would appear that most new mid-range All Terrains - apart from Tadano - will now adopt the single engine concept. Those manufacturers that have introduced single engine models stand to gain from reduced design and manufacturing costs. It will though be interesting to keep an eye on Tadano, and see if it sticks to its guns in the face of increasing development and production costs, or if it gains a wider following from customers who like its philosophy. With the other major AT manufacturers pushing this concept it can only be a matter of time before the end users accept and buy-in to the concept and actively start asking for just one engine?



Greiner Industries' Grove GMK6400, has been able to work on job sites where seven-axle cranes can't fit



Manitowoc's new laser hybrid welding cutting machine



# World's largest bronze sculpture

The world's largest bronze horse sculpture - in the form of Pegasus and a dragon - which measures 33 metres high and 63 metres long was erected in Gulfstream Park, between Miami and Fort Lauderdale, Florida, last year. When the project is completed this summer, the sculpture will include a four-dimensional experience theatre in its lower section.

Strassacker, a specialist art foundry based in Süssen, Southern Germany was commissioned to make the statue, with the help of several other companies including Stark Ingenieure - an engineering agency based in Ludwigsburg and Miami - which specialises in special support structures and one-off engineering projects. Stark developed the technical design, planned the erection work and produced the complex engineering solutions required for the statue.

Equipment used on the the project, included a wide range of large boom lifts, telehandlers and a number of All Terrain cranes, topped by a seven axle, 400 tonne Liebherr LTM

1400-7.1 operated by local crane rental company Allegiance Crane of Pompano Beach. The LTM1400 was rigged with Y-Guy superlift system and full 140 tonnes of counterweight. The heaviest single component was Pegasus' left wing, weighing 58 tonnes, which had to be lifted and placed at radius of 22.3 metres. The team was able to simulate all the lifts in advance with Liebherr's 3D lift planner for the LTM 1400-7.1.

The new statue is intended as an eye-catching symbol for a new theme park which will provide a range of entertainment and leisure facilities.

Heaviest component - weighing 58 tonnes - was Pegasus' left wing



The world's largest bronze horse sculpture - in the form of Pegasus and a dragon - was erected in Gulfstream Park, Florida.

A seven axle, 400 tonne Liebherr LTM 1400-7.1 AT crane operated by Allegiance Crane of Pompano Beach was used.

## Explorer moves bridge

Eslohe, the German-based crane rental company Blüggel used its new Terex Explorer 5600 to move a footbridge over the Ruhr river in Olsberg, 60 metres upstream to avoid the chance of flooding. Working for contractor Eickmann, this was the first time an Explorer 5600 was used in Germany.

"This project was our chance to put our new Explorer 5600 to the test," said owner Friedrich Blüggel, who also took the opportunity to operate the new machine himself.

In order to make the lift quick and cost-effective for the customer, the Explorer was fully equipped and driven to the job site allowing it to make a rapid start. However, the team still had a number of challenges on site. The first was access to the bridge with the crane using plastic trackway to protect the edge of the footpath path from damage. Additionally the ground at the lift site, on the Ruhr's banks was too soft to support the crane with regular outrigger mats, so large steel mats were employed.

The crane was configured with 33.4 metres of main boom and 46 tonnes counterweight to lift the 29 metre long, 17 tonne bridge at a radius of 20 metres. The crane's

compact design enabled it to get fairly close to the bridge, allowing it to be loaded directly onto a heavy transport vehicle without a problem. From there, the bridge was taken to its new location, followed by the Explorer which then placed the bridge in its new position on top of a new concrete piled foundation.

"One of the main reasons I purchased the Explorer 5600 was the fact that it could work in tight spaces," said Blüggel. "It is only 2.75 metres wide, which makes it as compact as the AC 120 we already have, but it also delivers much greater performance."



The Explorer 5600 is compact at just 2.75 metres wide



The 29 metre long bridge weighed 17 tonnes and was lifted at a 20 metre radius



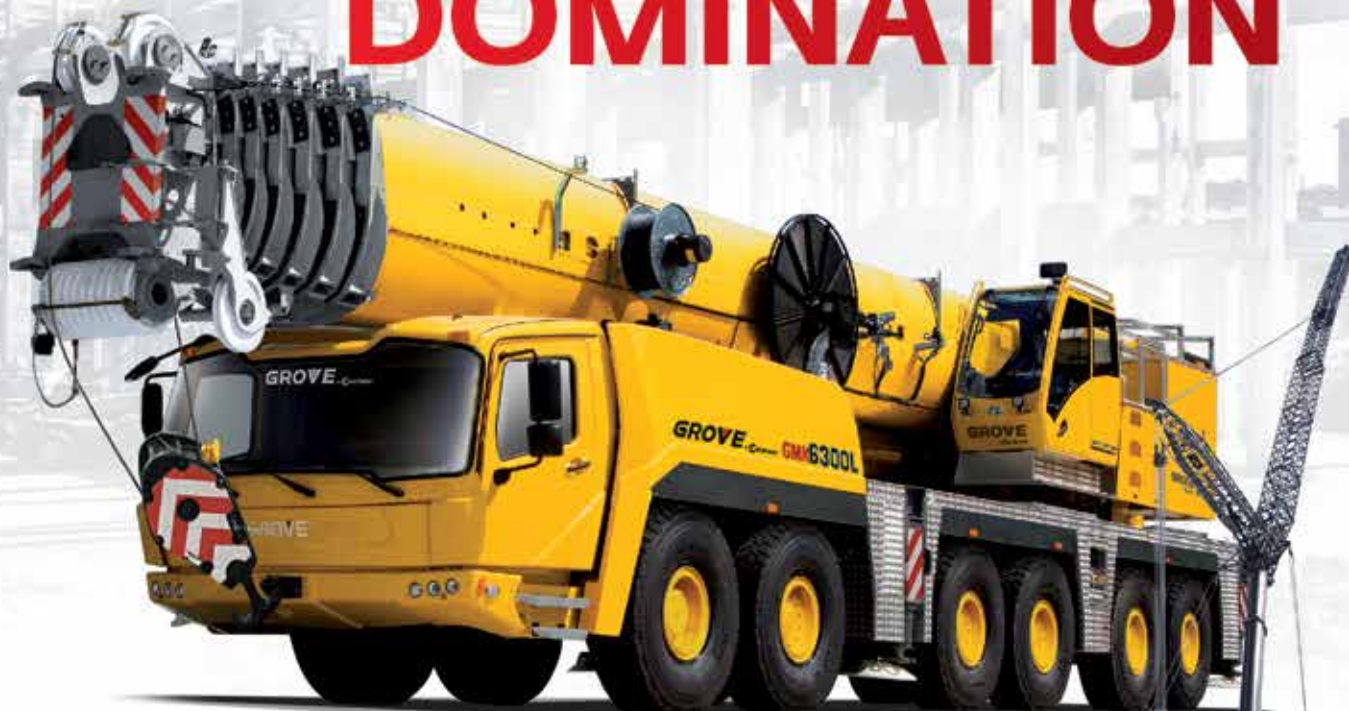
The Explorer had to negotiate tight spaces to set up near the bridge



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# Australian first for Fleurieu

Adelaide-based Fleurieu Cranes has purchased the first Grove GMK6400 in Australia. The company had originally intended adding a luffing jib to its existing 350 tonne AT crane, but decided to buy the 400 tonne Grove with full luffing jib instead.

"By adding another AT crane in this capacity class with luffing jib - which provides impressive reach and capacity - we are now able to work in new markets including wind farm maintenance and tower crane erection," said Philip Allen, who together with friends John Elliot and Nick Berry founded Fleurieu Cranes in 2005. "We are still getting significant work with our older 350 tonner while the GMK6400 gives the opportunity to pursue new markets."

The inaugural job for the GMK6400 was at the new Royal Adelaide Hospital, dismantling a tower crane belonging to Select Plant. The GMK6400 was configured with 44.79 metres of main boom

topped by a 43 metre luffing jib and 115 tonnes of counterweight. The crane made all the required lifts comfortably, including the removal of the top section of the tower crane, with its jib angle set to 80 degrees and at a radius of 46 metres. The heaviest component weighed 13.7 tonnes.

Fleurieu Cranes has three other Grove All Terrain cranes in its fleet, two 55 tonne Grove GMK3055s and a 100 tonne GMK4100. The hospital is the single largest infrastructure project ever undertaken in South Australia and is being built for the South Australian state government for the SA Health Partnership Consortium.

The inaugural job for the GMK6400 was at the new Royal Adelaide Hospital



## Raising the roof

Limited space and oversized loads were the main challenges that Czech crane rental company Autojeřáby Malina had to overcome when lifting steel roof structures for the new multi-purpose arena in the town of Frydek-Místek in the Czech Republic. The solution involved a tandem lift using its Terex Explorer 5800 and AC 250-1.

"Jointly lifting a weight of around 28 tonnes is actually a relatively easy task for the two cranes. But if the load is 30 metres wide and it has to be lifted from within a structure of the sports arena, precision was most critical," said company president Radek Malina.

The job required cranes compact enough to manoeuvre into the tight areas on site, while having the capacity and boom length to complete the task. To carry out the lift, the AC 250-1 was rigged with 41 metres of main boom working at a radius of 21 metres, while the Explorer 5800 was rigged with 42 metres main boom working at a 24 metre radius, to lift the bulky load to a height of 18 metres.

"We were very eager to see how efficient the Explorer's single-engine concept would prove to be in practice and whether fuel consumption would be low as promised," said Malina. "Now that we have seen the crane working we can say that the single engine was in fact significantly more fuel-efficient. Another benefit of this design was the ability to switch off the engine during the job, without switching off the IC-1 crane control system. This also contributes to lower fuel consumption and improved efficiency."

Founded 16 years ago, Malina Crane is based in Ostrava and runs a fleet of cranes with capacities from 20 to 250 tonnes, as well as offering special transport services.



A tandem lift using the Terex Explorer 5800 and AC 250-1 solved the problem



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# Niche no more

Over the past couple of years or so, French access manufacturer ATN has shown its innovative side with the introduction of new articulated booms, scissor lifts and the recently announced spider lift. Mark Darwin visited its facility in Tonneins, South West France and spoke to Daniel Duclos, president of the company to find out more.



Daniel Duclos

**ATN was founded on a niche of a niche, the rubber track mounted mast boom, adding to the growing mast boom market that has a strong European following, mainly in France but more recently in Germany, Switzerland and the UK. However it quickly added more mainstream wheeled mast booms and a few years back moved into the small Rough Terrain boom market and is now spreading into a wider range of access products.**

The company has an interesting history. It was all started by Duclos - a young mechanical engineer - in 1988 and joint founder of Delta Systemes, the company which first introduced the 'Toucan' mast boom. With sales to rental companies slow to take off he started a rental company in 1992 called Delta Bail in the Paris area with a fleet of 50 mast booms in an effort to promote the concept.

A few years later (in 1995) Delta Systemes was purchased by Grove - at that time the third largest aerial lift manufacturer in the world - with Duclos allowed to run his company within the Grove empire. Delta Bail however was not acquired as Grove did not want to be involved in rental so Duclos retained it and later renamed Acces Industrie which still continues today.

"During the time we were owned by Grove I visited rental companies around the world and could see the huge difference in the market maturity between Europe and North America," says Duclos. "For example, the largest rental company in France had a fleet of 400 self-propelled platforms. Nationwide in the UK had about 4,000 units whereas United Rentals in North America had 40,000 units. The potential in Europe was huge."

So as part of the Grove plan for Duclos he was to design and manufacture a new range of articulated booms, scissor lifts and mast booms - up to 16 metres working height in Tonneins. However the plans never got off the ground, because unbeknown to Duclos, Grove was up for sale and as a result all investment was blocked.

"I was 35 at this time - too young to retire - so I developed the rental company -renamed Acces Industrie in 1997 - initially to develop the mast booms although rental companies did not want this type of equipment as it was too different and too expensive. We were selling the product to end users so I was convinced that there was rental potential. Over time we developed the know-how and gained experience to modify the machine to make it more tuned to the rental market. However Manitowoc purchased Grove in 2002 before this came to fruition. This is why I set up ATN in 2000 to design a range of mast booms - starting with the tracked Piaf and developing a range of mast booms for the rental sector. Our philosophy was and is clear - build platforms that have good performance, longevity, reliability and are simple to maintain."

Following on from the mast booms, ATN produced its first articulated,



Part of ATN's new production facility near Tonneins, South West France

four wheel drive diesel boom lift in 2009 and launched its first diesel scissor lifts in 2011. By attracting investment to support its growth it was recently able to expand including moving into its new 20,000 square metre production facility just outside of Tonneins.

#### Business model changes

"Originally we were a small niche manufacturer but then six years ago we decided to develop a full range of products, but taking time to make sure we got it right," says Duclos. "You do not get a second chance to make a good first impression. While developing the new machines the experience gained from Acces Industrie helped enormously. Rental machines have to be reliable with good accessibility to the engine and components for easy maintenance. Sometimes it is a bit more expensive to manufacture this, but it is cheaper for the customer in

the long run. We also have a policy of using standard components with no captive parts. All too often manufacturers create captive parts so users are forced to buy from them at inflated prices. This is not what we want."

"After 27 years in this market I can see that the major manufacturers have been successful by doing a good job for the customer. However I think that they have lost sight of this philosophy, because they are now more finance or corporate orientated. They have an eye on the short term gain or stock market price, and not on the long-term relationship with customers. Take machine covers for example. They used to be made from fibreglass however the damage after an accident/impact was expensive to repair. Then they were made of much cheaper plastic however when it is damaged it breaks



Early Delta Systemes machines.







The new Piaf 66 has a 6.6 metre working height

completely offering no protection. Replacements are expensive - say €1,500 - and over the life of a machine may need replacing up to three times, good money for the manufacturer, but a significant cost to the rental company. There can also be problems with machines and we as the manufacturer have a responsibility to fix them even after the warranty period has expired."

**Mast boom popularity**

The mast boom is most popular in France and according to Duclos this is because of the education about the product concept over many years. More recently Germany and also the UK have begun to

"When I left Grove it was the only company producing a mast boom. Now JLG may have 25 percent of the growing market share, but it also has to compete with products from Manitou, Haulotte, Genie (badged Manitou), ATN and now Dingli. The mast boom is still a niche product but ATN is no longer a niche manufacturer."

Currently ATN, which employs around 60 and produces 400 units a year at its new production facility however the new plant has a capacity to produce much more.

"Manufacturing is not a problem," says Duclos. "If we need to build 10,000 units then we could do it. Our sales are currently around €10 million, but I cannot see why in the future we could not have 10 to 20 percent share of the European market. Worth up to €3 billion a year we could reach €100 to €200 million a year. The new factory could take us to €100 million without further investment apart from more staff."

"Machines are assembled at the facility with components and prefabricated parts arriving from all over the world, including Sri Lanka, Slovakia, France, Spain, Romania,



Part of the mast boom production line

appreciate the advantages of the mast boom, but it is only slowly gaining in popularity, even in countries where aerial work platforms are well established. "Habits are difficult to change," says Duclos. "First users had to be convinced to move away from scaffolding and towers to platforms. Then we need to educate the users about the different types of platforms and their benefits. We have succeeded in France because we have spent years educating end users on the benefits of mast booms."

China and Portugal. The world is now a small village and we have to find the best supplier for quality and price."

The facility is situated on a 40,000 square metre plot so there is plenty of room to expand if necessary. A €3million investment has recently been made in a new paint booth which improved the quality of the finish and added additional capacity. A new office building also being constructed bringing together the production, sales and engineering departments. The new factory is within a few



The new 23 metre spider platform will be launched at Intermat



The new facility has the space for massive expansion

hundred metres of Duclos' old facility - now owned by JLG - where the Toucan products are still built.

**Spider lifts**

"Mast booms with telescopic jibs are a niche within a niche and not an area we are looking to get into at the moment," says Duclos. "The spider lift is another niche, but I can see that they will become more mainstream, especially if they become more user-friendly. The development of the spider lift market could be very surprising over the next 10 to 15 years. Our aim is to build a simple, easy to use 23 metre spider with controls and systems similar to our other products. It will be launched at Intermat and hopefully will be available late 2015/early 2016. We take our time on developing products to make sure that we get it right."

ATN says that it decided to start at what it sees is the most popular size for a rental spider lift, but is also looking to add smaller - 17 metres - and larger - up to 30 metres - models. And hopes to launch three new products a year of all types.

"We have taken a different approach with our spider design," says Duclos. "We have about 30 spiders

from other manufacturers in the rental fleet so we know the pros and cons of each machine and how they perform."

**Different products**

For ATN the initial product was the crawler and then wheeled mast boom. Crawler units are becoming increasingly popular so it will launch an eight metre electric and a 10 metre crawler unit at Intermat for applications such as greenhouses in France and The Netherlands, where soft ground is an issue. Tracked lifts are also very popular



A €3million investment has recently been made in a new paint booth which improved the quality of the finish and added additional capacity.



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ATN currently produces about 400 machines per year but has the capacity for much more

in Japan. Mast booms now account for just half of ATN's current production, and only 30 percent of its revenues. The production of diesel scissors is growing, but has encountered several problems. "For rental companies the RT scissor is expensive to buy and rental returns are low," says Duclos. "It also suffers abuse as it is a heavy duty product but as it is in demand we have to offer a product but it is not very profitable."

"We could produce something cheaper - low reliability and short longevity - but we chose the heavy duty product, with best the capacity and gradeability in its class, using four millimetre thick steel covers etc. It is a bit more expensive but its whole life costs are lower. The customers who understand this are happy to buy."

ATN's articulated boom range which includes the 12 and 16 metre



Zebras, will also be expanded with a 20 or 22 metre model. The product is starting to sell well to the big rental companies including Hertz, Goscor, Salti, and Schwenk in Germany.

**Hybrid the future**

"We think the future is hybrid or electric and this will be applied right across the product range," says Duclos. "I have many ideas but cannot mention them in detail at the moment but the rental market is key. In France we see a demand for the smaller platforms of less than eight metres which is why we launched the six metre PIAF at Apex. It is a jobsite product that is strong and reliable like our larger machines. We are not looking to manufacture a push around - we believe in self-propelled platforms - and may consider lower machines after the 6.6 metre PIAF is established."

"The very first ATN platform was a narrow, 5.6 metre tracked mast boom. I still believe in this machine but when we did it 14 years ago no-one was interested - it was too advanced for its time. Now we are starting to see the demand for the new PIAF 660RC because it can go anywhere. Perhaps we will reinstate the concept of our original platform?"

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# The choice is yours

When it comes to choosing a boom lift at the lower end of the height range, the market is bulging with different concepts and alternatives from a wide range of manufacturers. This month Cranes & Access takes a look at small electric powered booms including mast booms.

When sourcing the right platform the first decision is of course to decide the type that best suits the application, or if you are a rental company, what is your customer base? The small electric boom market - with platform heights between six and 10 metres - essentially breaks down into the following categories:

- Lightweight booms such as the Niftylift HR12, Snorkel A38E or new Genie Z33/18 etc...
- The ultra-compact industrial booms such as the JLG 300, Genie Z34/22, Haulotte HA 12 or Manitou 120 AETJ-C
- Mast booms such as the Haulotte Star and JLG Toucan products
- Small Rough Terrain booms such as the JLG 340AJ and Niftylift HR12-4x4

The decision really depends on the usual platform selection criteria - the working height, outreach and/or up and over reach required along with physical dimensions including height, width, length, weight and manoeuvrability which allow or prevent the platform gaining access to the work area.

The specification table below shows the relatively wide range of physical dimensions and weights available with working heights from 7.7 to 12.65 metres and outreaches from about three to seven metres. All should all be able to go through a standard height double doorway but while the mast booms have overall widths of around one metre, the regular booms are much wider - ranging from 1.2 to 1.93 metres wide - and generally heavier weighing anything from just under three tonnes to a whopping seven tonnes. On the whole, the heavier or bulkier lifts offer much better outreach. They each have their merits and having narrowed your selection to those that suit the work, the final decision will ultimately depend on availability and cost - no matter if you are renting in or buying.

The mast boom might initially appear to be at a disadvantage with outreach limited to three or four metres. However they have the advantage of being lighter and



The new Genie Z33/18 is the latest addition to the lightweight booms



The 10 metre working height Manitou 100VJR has an outreach of more than three metres.



C&A

mast booms

narrower while offering far better up and over heights. However there are now several mast booms with platform heights in the 30ft range - 11 to 12 metre working height - that feature two or even three section telescopic jibs, providing outreaches up to six metres. The downside of these jumbo mast booms is that they can weigh around five tonnes with overall widths in the region of 1.2 metres.

While smaller non-telescopic mast booms cannot compete on height and reach with the small boom lifts, the fact that they are more compact and lighter might be the difference of reaching the work area or not. And getting closer to the workplace means less outreach is needed, particularly if it is being used to just to straddle small low-level obstructions.

Small RT booms such as the JLG 340AJ are now an option when looking for platforms around the 12-14 metre range.



## Small RT booms?

Finally you can argue that there is a fourth sector edging in as small hybrid Rough Terrain booms come on stream. Niftylift has offered a four wheel drive version of its HR12 for at least five years and from the start it was available with a Bi-Energy power source. JLG took it a stage further in 2012 with its 340AJ which utilises four electric hub motors to not only provide highly efficient drive and traction, but made a full electric Rough Terrain boom possible. The 340AJ also has a diesel engine to recharge and top up the batteries creating a form of hybrid. The unit was available from the start with heavy lugged non-marking tyres, making it truly viable for indoor use. Other machines are coming on stream to add to this sector.





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## Mast boom history

The mast boom market continues to grow and expand as more end users discover their attributes helped by the rental companies getting to grips with the concept. While the American manufacturer Lift-a-Loft can probably claim to have invented the concept, it was the French that converted the idea into a commercially viable volume product. We have told the story in previous issues of how Alexis Biramian began work on the idea while at Comabi - at the time a part of SGB - but left to establish his own access rental business, ABM in Mirabel, near Lyon. He then commissioned a design company from South West France to turn the concept into a reality. The young engineer responsible for the project was Daniel Duclos and for whatever reason, instead of handing over the prototype and the designs to ABM, Duclos and his partner decided to commercialise the product themselves and founded Delta Systemes selling the new mast booms under the Toucan brand. (See Daniel Duclos, ATN interview page 27)

Grove acquired the company, dropped the Delta name and rebranded the products as the Grove Manlift Toucan promoting them through a combination of its own dealer network and the better Delta dealers. In 2001 Grove was acquired by Manitowoc, which had also acquired Potain tower cranes and had no long-term interest in the access market, yet through these two acquisitions it was the owner of Grove Manlift and Lift Lux with two dedicated production facilities as well as two Grove crane plants that also built Manlifts. It dropped the Grove name from Manlift and began to separate the access business

from its 'core' crane operations, while looking for a buyer.

In 2004 JLG made an acceptable bid for the business - some say in order to take the Manlift boom lifts out of the market - a highly satisfactory achievement given the historic rivalries between Grove and JLG. The fact was that the jewel in the crown of the Manlift acquisition was the Toucan product range, along with the dedicated plant in Tonneins, South West France, while production of Lift Lux scissor lifts moved from Germany to the JLG plant in Maasmechelen, Belgium, but was nowhere near as successful as the Toucan.

To wrap up our mast boom history Alexis Biramian went on to introduce his own range of mast booms under the ABM brand. He later sold that business to Haulotte which was building its own Starlift mast booms, but struggling to make money from them. UpRight also joined the market with its MB range, followed by Manitou with its VJR's and to square the circle Duclos got back into the act founding ATN initially to build a specialist tracked mast boom. Today the company is a significant player in the market and has expanded its range to include booms, scissor and shortly spider lifts. Oh and Comabi - the company that might claim to have started the whole thing in Europe - was sold off by SGB and designed its own range of small mast booms, but they have never found wide commercial success.

In recent years several Italian manufacturer's such as Airo and Iteco/Imer have tried their hand in the market, with limited success. In Germany Lehmann and more recently Hematec have built excellent machines, but they tend to be less competitive and more complex than the French models.

The latest entrants come from the east in the form of Chinese manufacturer Dingli which has two very respectable looking models, shortly to be joined by fellow Chinese producer Mantall which showed a 10 metre product at Bauma China in November.

### Mast boom characteristics

The bulk of mast boom sales comprise the 10 metre working height models, with an overall width of just under a



German manufacturer Kreitzler has several interesting mast booms with outreaches up to five metres. This KIB 12/047T has a 4.7 metre working height, four metre reach with a capacity of 300kg and weighs 3,300kg

metre, overall height of just under two metres and around three metres of outreach through 360 degrees of slew. Over 90 percent of mast booms are made in France by JLG, Haulotte, Manitou and ATN. Why France? Well as outlined in the Duclos interview, it came out of the strong promotion and rental availability for end users by Delta. The concept is now very well established and is the only market where it is considered as a mainstream rental machine, compared to the rest of the world where it is seen as a niche product. In addition to the 10 metre models, several companies produce eight metre models, that tend to be based on the 10 metre units, but tend not to sell well due to a lack of serious price differentiation. One or two companies build larger machines, although internationally only JLG is active in this market. The basic mast boom design with its high counterweight and short length has tended to make mast booms a little top heavy, resulting in instability particularly when loading and unloading. This has resulted in a number of accidents over the years and put off some rental companies. However the main producers have all worked on this issue to the point where it is not really an issue any more.

### Bigger mast booms

As we have already mentioned JLG acquired the Toucan mast boom range from Grove in 2004, which included a 12 metre model which had not sold well. Initially JLG tweaked and improved the design but failed to significantly improve its popularity. Although these big mast booms did have those that

appreciated their good up and over reach and an absolute parallel lift/lower function, ideal if doing sequential work on a wall or façade. In 2013 JLG introduced a more mainstream product which included a telescopic jib - the T12E Plus with similar dimensions to the smaller models apart from being 1.2 metres wide. The benefit is over six metres of outreach and a working height approaching 13 metres although it weighs 4.9 tonnes.

### Mast boom based crane

In Germany last year Hematec refreshed the Lehmann Emu design for a mast boom that is truly as compact as most 10 metre models yet offers substantially more outreach at 5.15 metres. But while the Helix 1205 has dimensions which are competitive with other 10 metre mast booms, its weight is significantly more at 4,800kg. Hematec also has the Helix 1508 - a larger 13 metre mast boom with an eight metre outreach. This is slightly wider at 1.2 metres but weighs in at a hefty 7,500kg.

Hematec also offers an interesting variation on its 1250 mast boom, replacing

the basket with a 500kg capacity winch, creating the Helix 12500 self-propelled mini crane offering the same accessibility into narrow spaces to perform installation and dismantling work. Maximum reach is 4.3 metres.

The Toucan 12E is 1.2 metres wide but has a 5.1 metre outreach



A Grove Toucan







The more specialist German-built Hemetec Helix 1508 has a 15 metre working height and eight metre outreach.

### Mast boom innovation

Of the mainstream mast boom manufacturers only ATN supplies units on tracks. It claims that crawler units are becoming increasingly popular and will add an eight metre electric and 10 metre crawler units in the coming months, particularly for greenhouse applications in France and The Netherlands where soft ground is an issue. In the major mast boom market - France - there is also a growing demand for smaller working height platforms.

Several Chinese aerial lift manufacturers are now looking at the mast boom market, and the leading manufacturer Dingli now has two models. Its first 11.2 metre platform - originally known as the AMWP11.5-8100 but now known as the Whirlwind 11.5 has been joined by the smaller 10 metre Whirlwind 10 which is pretty much the same, but uses one mast section less. Dingli is also different in that it includes an automatic pothole protection device as standard,



Hemetec also offers an interesting variation on its 1250 mast boom, replacing the basket with a 500kg capacity winch

improving its ground clearance when the platform is stowed.

UpRight (now Snorkel) introduced this idea to the mast boom when it launched a narrow, 800mm wide, eight metre mast boom in the 1990s. The advantages of a narrower platform largely failed to appeal, with most buyers preferring to stay with the standard 10 metre Dingli appears to be finding some success having sold a number of its 11.5 metre machines to customers in Australia. Finland. France the



Originally known as the AMWP11.5-8100 the Dingli Whirlwind 11.5 has been joined by the smaller 10 metre Whirlwind 10.



ATN produces both wheeled and tracked mast booms



The Snorkel MB26J seen recently at the ARA show in New Orleans



The recently launched 10 metre Mantall IPM100J

UK, Netherlands, Russia and New Zealand.

Chinese aerial lift manufacturer Mantall also unveiled a new mast boom at Bauma China. The 10 metre working height IPM100J uses direct DC electric drive for both wheels and is said to have high operating speeds. It has very similar dimensions to other platforms in its class with an

overall width of less than a metre, is just under two metres high by 2.7 metres long when stowed. Maximum outreach is said to be 3.2 metres.

Manitou are among several manufacturers offering industrial type boom lifts.



Mast Booms		Platform Height m	Width m	Weight kg	Capacity kg	Grade	Outreach m	Height m
ATN	880R	6.8	1.03	2600	200	20%	3.36	1.98
	1000R	8.04	1.03	2980	200	20%	3.46	1.98
	1100R	9.0	1.03	3200	200	20%	3.74	2.14
Dingli	Whirlwind 10	8.0	1.0	2890	200	25%	3.0	1.99
	Whirlwind 11.5	9.2	1.0	2950	200	25%	3.0	1.99
Genie	GR-20J	5.7	0.99	2250	200	25%	2.75	1.99
	GR-26J	7.85	0.99	2650	200	25%	2.65	1.99
Haulotte	Star 8	6.2	1.0	2610	200	23%	3.0	1.99
	Star 10	8.0	1.0	2735	200	23%	3.0	1.99
Hematec	Helix 1205	10.0	0.98	4800	200	16%	5.15	1.98
	Helix 1508	12.98	1.2	7500	200	16%	8.0	2.20
JLG	T8E	6.15	0.99	2120	200	25%	2.39	1.99
	T10E	8.10	0.99	2990	200	25%	3.08	1.99
	T12E	9.83	1.2	4300	200	25%	5.10	1.99
	T12E Plus	10.65	1.2	4900	200	25%	6.05	1.99
Kreitzler	KIB 08/08 GT	5.9	0.85	2000	120	14%	3.10	2.10
	KIB 08/09 GT	7.5	0.85	2240	120	14%	3.50	2.50
	KIB 10/095 GT	7.5	1.05	2240	250	14%	3.50	2.50
	KIB 08/095 GTS	7.5	0.80	5500	120	14%	5.00	2.10
	KIB 08/122 GTS	10.2	0.80	5700	120	14%	5.00	2.10
	KIB 08/132 GTS	11.2	0.80	5800	120	14%	5.00	2.60
	KIB 08/110 GTS	9.0	0.80	5680	120	14%	5.00	3.10
KIB 08/126 GTS	10.6	0.80	5950	120	14%	3.65	3.10	
Manitou	80VJR	5.7	0.99	2250	200		3.25	1.99
	100VJR	7.9	0.99	2650	200		3.15	1.99
Mantall	IPM100J	8.0	0.99	N/A	N/A	N/A	3.20	1.99
Snorkel	MB20J	6.1	0.81	2590	215	25%	2.60	1.98
	MB26J	7.8	1.0	2660	215	25%	3.00	1.98
Industrial/RT type boom lifts								
JLG	E300AJ	9.19	1.22	6900	226	25%	6.17	2.01
	340AJ	10.33	1.93	4400	230	45%	6.06	2.0
	Genie	34/22DC	10.52	1.73	5179	227	30%	6.78
Z33/18		10.0	1.5	3665	200	30%	5.57	1.98
Haulotte	HA12 CJ+	9.7	1.2	7040	230	25%	7.22	1.99
	HA12 CJ	9.7	1.2	6970	250	25%	7.0	1.99
	HA 12 IP	10.0	1.35	5900	230	25%	6.6	2.0
Manitou	120 AETJ-C	9.95	1.2	6660	200	25%	7.0	1.99
Niftylift	HR12N	10.2	1.5	3100	200	25%	6.1	1.9
Snorkel	A38	11.5	1.5	3770	215	36%	6.1	2.0



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# Intermat showtime!

C&A

Intermat

Following on from last month's issue, and with less than a month to go, we bring you a little more detail on this year's big international show - Intermat in Paris. True, the exhibition has struggled in comparison to Bauma (Munich) and Conexpo (Las Vegas) - the other two shows in the three year international cycle - however over the last three shows Intermat has continued to grow in regional importance, attracting a wider range of international visitors particularly from North Africa, the Middle East, South America and Southern Europe.

As reported last month, there are more exhibitor changes with a few significant players, such as Caterpillar and JCB not taking stands. However it is good to see Manitou supporting its home show again after an absence of nine years and there are numerous other companies making their Intermat debuts.

For those making the trip we have included an overall plan of the show layout highlighting where the relevant cranes, access and telehandler companies are exhibiting, together with a full listing of every company in our sector that will be at the show at the time we went to press.

As in previous years we will also be publishing the Vertikal Intermat guide, available digitally before the show and as a free hard copy distributed at the exhibition. The format includes easy-to-follow tours in both English and French - for all the major product types - such as mobile cranes, crawler cranes, scissor lifts, spider and trailer lifts and loader cranes - as well as

essential tourist information on how to get the most out of your visit to Paris.

While we now have more information on new products you can expect to see, some companies - including Haulotte, Manitou and even JLG - are still keeping their lips sealed in a hope to surprise visitors on the first day.

## New Ruthman 27m

German truck mounted platform manufacturer Ruthmann will unveil the TB270+ - a new version of its 27 metre TB270 on a 3.5 tonne chassis. The redesign was forced by the increased weight of the new Euro 6 truck chassis, which are now beginning to ship. This necessitated a lighter top of course if the 3.5 tonne GVW was to be respected. Ruthmann says it has employed innovative steel fabrication techniques and its 'multi-bevelled' boom and superstructure designs from the 22 metre TBR 220 to cut weight, while improving performance - including the ability to go to the machine's full height with its maximum 230kg platform



The first production units of the new Ruthmann T480 will be on show



The 46ft Dingli 6TBZ16AE

Ruthmann TB270+  
27m on a 3.5 tonne  
chassis



capacity or up to 16.4 metres outreach with its reduced 100kg capacity - almost two metres more than the current unit. The machine on the stand has been sold to French rental group Killoutou.

Other Ruthmann exhibits will include the first production unit of its new 48 metre T480 announced last September, since when the company has managed to improve

some performance characteristics. The unit on the stand is sold to French rental company SMMI, mounted on a three axle All Terrain Volvo FMX truck. This unit will be joined by a 54 metre T540 mounted on a four axle Volvo FMX chassis sold to Joly Location.

## Three from Dingli

Dingli will launch three new boom lifts and is hoping to find new





The new Dingli 73ft telescopic GTBZ24S boom lift has 16.2 metres of outreach and 230kg platform capacity

dealers for its international network. The new 46ft GTBZ16AE articulated battery electric boom offers a 16 metre working height and over seven metres of outreach with an up and over height of 7.89 metres. Direct electric AC drive motors provide 30 percent gradeability and longer battery life. The new 73ft telescopic GTBZ24S boom lift has 16.2 metres of outreach and 230kg platform capacity. The unit has a rising boom pivot point, two section telescopic boom and 130 degree articulated jib. Standard specification includes four wheel drive, oscillating axle, Deutz power and 180 degrees platform rotation.

The final new boom is the 11.2 metre AMWP11.5-8100 mast boom, weighing 2,950kg. It has three metres of outreach and includes active pothole protection for increased ground clearance when stowed. Dingli will also show a selection of its scissor lifts and a number of ultra-compact vertical lifts.

**New ATN spiders and masts**

French aerial work platform manufacturer ATN will launch two new machines - the Piaf 1010 tracked mast boom and a 23 metre spider lift - the MG23. The spider



The 23m MG23 spider from ATN



JLG's new 53ft 5394RT scissor

has a working height of 23 metres and platform capacity of 230kg, with an overall length of 5.54 metres and width of 1.88 metres and will be available with its own trailer.

Another mast boom on the stand will be the Piaf 660RC. Weighing less than a tonne (970kg) the compact Piaf 660RC is able to fit into an elevator. Two versions are proposed - one with and one without a platform extension.

**26m lithium Hinowa**

Italian equipment manufacturer Hinowa is planning to launch its biggest platform to date, a 26 metre lithium ion battery powered spider. Details have not yet been released but it is expected to follow the same principles as its 23 metre Light Lift 23.123SLI, but with some innovative twists to ensure that it is easy to transport and easy to operate. The all-electric version of the new machine will retain the same function speeds and travel gradeability as the IC powered models.

**Socage**

Socage will be showing three platforms including its biggest truck mounted platform ever produced - the 75 metre forSte 75TJJ mounted on a 32 tonne GVW chassis. Outreach is said to be 40 meters and 300kg maximum capacity. The forSte T418 is an 18 metre platform which uses Socage's X-type chassis is a new version which features fixed rear outriggers resulting in it being more compact and lighter. Outreach is eight metres and maximum capacity 225kg. The forSte 12VT van mount has a 12 metre working height and eight metre outreach with 120kg capacity.

**JLG 460SJ**



**Atlas**

German loader crane manufacturer Atlas is showing off its new Atlas/Ahmeke safety stability control system which uses ultrasonic sensors to measure the distance to the ground and works on two, three and four axle trucks. New high capacity loader cranes include the AK 440.2 capable of lifting 1,000kg at its maximum reach of 22 metres. Also on show is the AK 57.3 which can lift 360kg at its 11 metre maximum reach and the larger AK 126.3E with a 14.4 metre reach. The Atlas 206.3 is brand new and can lift 450kg at its 21 metre maximum reach.

**JLG**

A JLG version of the new 26 metre Hinowa spider lift, the X26J Plus will make its debut at Intermat. But the pride of place will be its new 40 to 46ft straight and articulated boom models - unveiled at the recent Rental Show - along with new hybrid boom lifts that use a similar diesel/electric concept as the current H340AJ. These new models will extend the range upwards from 34ft to 66ft. Substantial updates will be made to the ES slab scissor



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range, including new steel decks and covers and controller to meet the latest European standards while width has been increased from 30 to 32 inches. Also look out for the new 53ft Rough Terrain dual deck scissor lift.

## Genie booms and hybrids

For some, Intermat will be the first time to see the production versions of Genie's latest booms, including the all-electric Z-33/18 and the diesel Z-62/40 - both launched last year. And for most it is the first chance to see its recently unveiled 150ft SX-150 boom, which retains the three metre articulated/rotating jib of its larger brother the SX-180 but uses one less boom section. The SX-150 has four programmable platform height settings of 150, 135, 120 and 100ft to help maximise rental rates. Other exhibits include the Genie GS-4069 bi-energy hybrid RT scissor lift, the GTH-4014 telehandler and the top of the line SX-180 boom lift.

## Bigger booms from Skyjack

Celebrating its 30th year in business Skyjack will launch its new 82/86ft telescopic booms - the SJ86TJ and the SJ82T - one with a jib and one without. The booms use a rising boom pivot linkage to move the machine's centre of gravity forward as the boom is elevated, to both improve forward reach and stability without adding weight. The new machines feature dual platform capacity ratings of 454 and 227kg on the SJ82T and 341 and 227kg on the SJ86TJ. In Europe this should be automatically integrated into the machine's platform overload system. Most of the rest of the machine follows the company's other boom lifts in terms of design philosophy, including 4x4 axle



Skyjack SJ86T.

type drive, and relay based control systems. The SJ86TJ weighs 17,150kg.

## Haulotte celebrates 30 years

Long-time Intermat supporter Haulotte is also celebrating a 30th anniversary, and is promising a major innovative product launch. We do know that it will unveil new versions of the Star 8 and Star 10 mast booms, along with a 60ft articulated boom - the HA20 RTJ Pro - based on the recently launched HA16 RTJ Pro, with four wheel drive, four wheel steer, 360 degree slew, oscillating axle and Activ'Shield secondary guarding system. The company will also unveil improvements to its larger booms in the form of the RTJ Pro models of the HA32, HA41 and HT43 with better equipment levels, including a new platform, improved covers and Activ'Shield secondary guarding. On the telehandler front, updated machines will include new Tier IV final Kohler engines which do not need a diesel particulate filter along with numerous detailed changes.



Haulotte HA20 RTJ.

## Manitou 'game changer'

Manitou's main new product launch will be "an aerial work platform" but it could not be coaxed into



Manitou will show its new 32 metre 360 degree telehandler, the MRT 3255.

giving anything away about what it describes as a radical new 'game changer'. We do know that it will have a working height in the 12 to 14 metre range and that's all. One hopes that when it is unveiled at the show it will live up to all the hype. It will also show its new 32 metre 360 degree telehandler, the MRT 3255 and a new simpler version of its compact MT625 Easy telehandler, aimed at rental companies and construction.

## Kobelco Cranes

Kobelco's crawler crane line-up will include two G-series machines, the 135 tonne CKE1350G and the 250 tonne CKE2500G, both of which features auto idle stop when the engine is not working, giving fuel savings of between 25 and 30 percent. Other redesigns include a more compact chassis for easier transportation, LMI touch screen and an improved counterweight self-installation mechanism. The Kobelco Remote Observation Satellite System - Kcross - is standard and allows remote monitoring of the unit from the owner's desktop, providing daily, weekly, and monthly reports.

## Liebherr

As well as the award-winning 200kg capacity LiUP self-contained tower crane elevator, Liebherr will display the 172 EC-B 8 Litronic Flat-Top crane introduced to the market last autumn. Succeeding the 160 EC-B, it has been completely revised with a 15 percent increase in jib tip capacity to 2,100kg at a radius of 60 metres. Maximum capacity is



150ft SX-150 boom, which retains the three metre articulated/rotating jib of its larger brother the SX-180 but uses one less boom section



Kobelco CKE2500G

8,000kg.

Also making its European debut is the five axle 160 tonne LTM 1160-5.2. With capacities increased by 20 to 25 percent, the crane is a single engine unit and a reduced overall width - down from three metres to 2.75 metres.

## Holland Lift

Holland Lift will undoubtedly show its first true hybrid - the 84ft platform height/ 27.5 metre working height, 1,000kg capacity HL-275 H25 4WD/P/N which was unveiled last year. Another new model that should be on the stand is the all new 33 metre working height, 1.4 metre wide narrow aisle scissor lift.

## Bobcat telehandlers

Bobcat will show the replacements for its 10 and 12 metre telehandlers - the 3.5 tonne/10.3 metre T35105 and T35105L - both of which have 6.88 metres of forward reach - and the 3.6 tonne/11.87 metre T36120SL which offers a forward reach of



Skyjack will launch its new 82/86ft telescopic booms - the SJ86TJ and the SJ82T - one with a jib and one without



Making its European debut is the five axle 160 tonne LTM 1160-5.2.







Bobcat T35105

8.2 metres. The new models incorporate many of the changes introduced on the TL360/TL470 compact units and 14 to 18 metre T40140/T40180 models launched in 2013. The T35105L features a frame-levelling system, while the T36120SL incorporates both stabilisers and frame-levelling, while the T35105 has neither.

### Sennebogen

German crane manufacturer Sennebogen will show its new 120 tonne 6113E telescopic crawler crane with 40 metre full power boom. Its partnership to supply three crawler teles - 50, 70 and

120 tonnes - to Grove for distribution in the Americas agreed earlier this year means that a new 50 tonne Sennebogen might be on the cards? There will also be a new 640E heavy duty

cycle crawler while the planned 300 tonne heavy duty crawler will probably appear later in the year.

### Dieci

Italian telehandler company Dieci will show the 29.9 metre/four tonne 360 degree Pegasus 40.30, capable of 40kph. The new machine is fitted with the Easy work system which allows it to work in any position, automatically adapting the performance according to the outrigger configuration. Also launched is the new heavy duty 19 tonne/10.2 metre Hercules 19.10. Features include a lockable third differential, a boom raising, speed



Dieci Hercules 190.10



Magni 35 metre RTH 5.35

increasing regenerative system and an inching pedal allowing it to run at slow speed with engine at full throttle.

### Terex Cranes

The company is keeping quiet about any further new launches, but do expect to see the new Explorer models.

### Magni

Intermat will be the first chance to see the new 35 metre/5,000kg 360 degree telehandler from Magni - the RTH 5.35. The new machine features an innovative six section boom employing two external telescope cylinders and electronically sequenced extension system. The company will also launch its new range of work platform attachments.

### Teupen

Teupen will display a range of its Leo spider lifts, but most importantly will launch its new distribution partnership with Groupe Tilly for Eastern France.

### CTE

On the France Elevateur stand, CTE will show its new Zed models, including the 23 metre Z23.2JH truck mounted work platform, which has been totally redesigned to meet the latest EN2380:2013 standards and heavier chassis. The new machines make extensive use of ultra-high yield SSAB Docol steel to reduce weight without compromising performance.

### Unic Cranes Europe

The GGR Group is remaining tight lipped about what it is showing but alongside the Unic cranes will be launching a range of auxiliary products for its most popular spiders. The company is also hinting at one or two other surprises on the stand.



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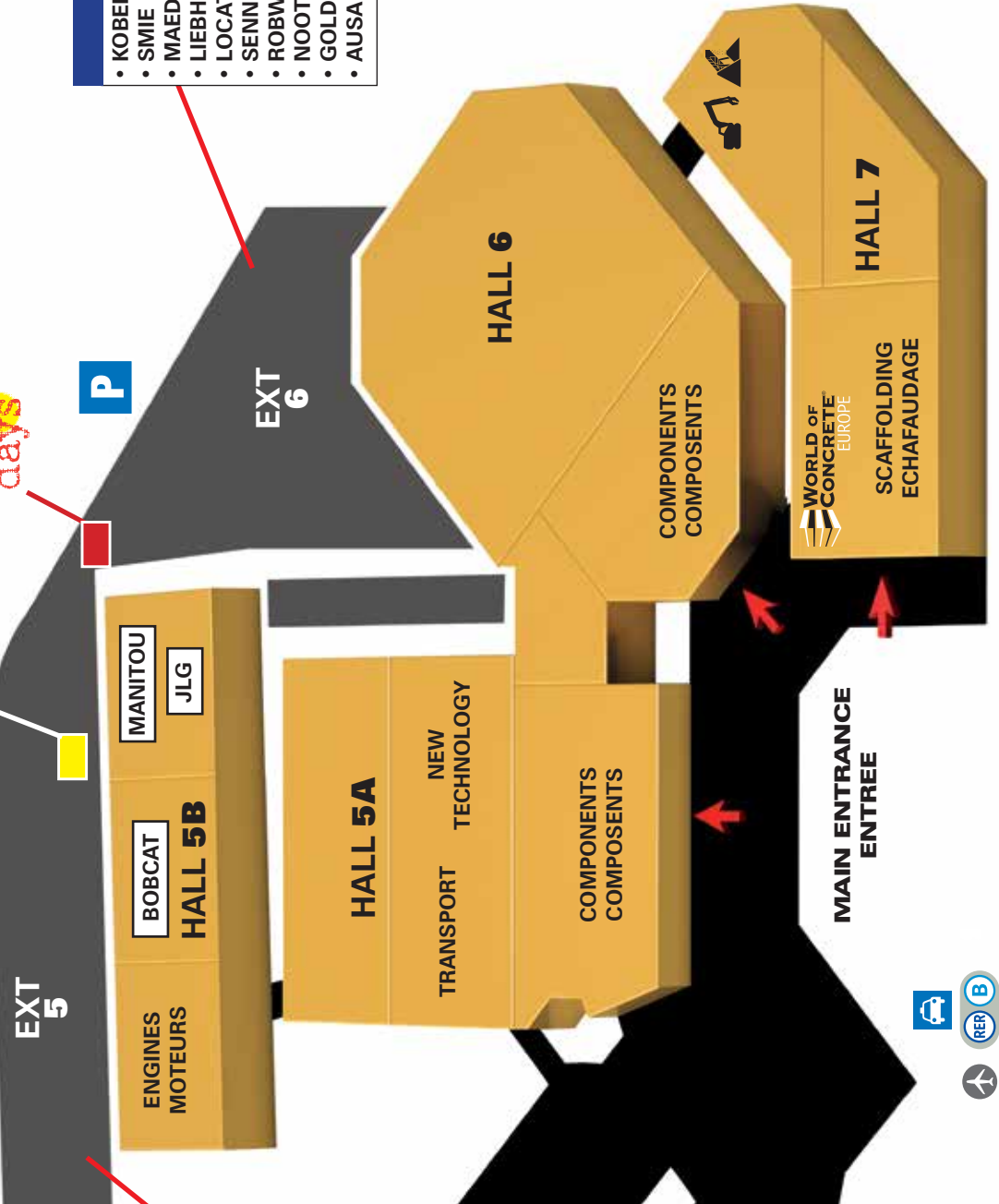
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Company	Stand number		
AGS	Ext 5 F 020	Lodax - CGK-Group	Ext6 E 055
Airo	Ext 5 G 012	Loxam	5a J 074
Akerstroms	5a K 099	LSI-Robway	Ext6 G 039
Alliance Tire	5a F 051	Maber	7 K 135
Altrad Belle	7 J 103	Machineryzone	6 D 015
Amber Valley	6 G 019B	Maeda	Ext6 E 056
AMCS	Ext6 D 064	Magna Tyres	5a D 013
Annecy Electronique	5a J 106	Mait	Ext 2 F 028
Appydro	Ext 5 D 017	Manitou	5b F 015
Ascorel	5a J 110	Manuli Fluiconnecto	5a F 014
AEM	5a J 062	Marini	5a D 137
Atlas	Ext 5 G 004	Marrel	Ext7 D 002
ATN	Ext 5 J 009	Mascus	7 B 181
Ausa	Ext6 A 047	Matebat	Ext6 C 055
Avant Tecno	Ext 5 B 010	Maxilift	7 L 116
Bauer	Ext 2 E 002	Mercedes	5a E 107
bauma	6 B 015	Merlo	Ext 5 E 003 - Ext 5 E 009
Berroyer	5a B 133	MethodCad	7 L 097
Bices 2015	6 D 013	Michelin	6 F 032
Big Astor	5a K 071	Mills	7 J 077
BKT Tires	5a D 064	Mitas	5a E 051
BMS	5b F 028	Moba	5a J 093 - Ext5a J 010
Bobcat	5b J 027	Morooka	5a D 009
Böcker	Ext 5 E 019	MTU	5b K 027
Boom Makina	7 L 004	Multitel Pagliero	Ext 5 H 016
Boscaro	7 L 032	NBP Bearing	5a B 034
Bridgestone	6 G 079	Neumeister Hydraulik	5a F 040
Camoplast Solideal	5a E 013	Next Hydraulics	7 L 116
Casagrande	Ext 2 F 053	Nicolas	Ext6 C 029
Chastagner	Ext 5 H 011	Ningbo Bolev Hydraulics	5a C 027
Cifa	7 H 001	Nooteboom	Ext6 E 046
CIMA	5a J 051	Off-highway Reseach	6 G 020
CO.ME.T.	7 J 087	Orlaco	6 B 021
Cobo	5a J 064	OTR Wheel Engineering	5a D 041B
Comilev	Ext 5 C 022	Palfinger Platforms	Ext 5 B 004
CEA	6 G 020	Panolin	5a H 008
Cormidi	5a B 063	Pilot Seating	5a E 037
CTE	Ext 5 C 013	Platform Basket	Ext 5 J 017
Cummins	5b L 028	Plettac	7 J 103
Curtiss-Wright	5a G 059	Poclain Hydraulics	5a F 026
D.Gutzwiller	5a H 134	Power Towers - Everest	7 D 174
Dana	5a K 064	PVE	Ext 2 F 037
Deutz	5b L 016	Qingdao Scaffolding	7 K 071
Dezhou Yuli Hydraulic	5a B 027	R&B cranes	Ext 5 C 013
Dieci	Ext 5 G 003	Raxtar	7 H 001
Dingli	Ext 5 J 015	Rayco Wylie	5a J 104
Doosan	5b J 027	RB componentes	5a J 071
Effer	Ext 5 D 017	RDS Technology	R5a F 044
ELS Makine	Ext 5 H 013	Remorques Hubiere	5a E 123
Equipements de Grue	7 L 125	Remorques Louault	5a B 123
Everdigm	Ext 5 C 010	Risa	Ext 5 C 022
Faresin	Ext 5 C 009	Ritchie Bros.	6 C 037
Fassi	Ext 5 C 007	Roquet Hydraulics	5a G 025
Fayat	5a D 137	RUD	7 J 120
Faymonville	Ext5a 003	Ruthmann	Ext 5 C 016
France Elevateur	Ext 5 C 013	Samoter 2017	6 B 025
FTA - Fluides Techniques	5a D 002	Sany	Ext 5
G.A. Ricambi	6 H 143	Scania	6 J 113
Gates Rubber	5a J 006	Scanmaskin	Ext7 A 006
Geda	7 L 126	Scanreco	5a K 094
Gemmo	5b B 011	Scheuerle	Ext6 C 029
Genie	Ext 5 E 010	SDMO Industries	5b J 028
GF Gordini	5a H 130	Sennebogen	Ext6 D 060
GGR	Ext 5 J 016	Shandong Tengong Bearing	5a C 027B
Global Track Warehouse	5a E 001	Shanghai Huaxiang Rubber Track	5a G 038
Goldhofer	Ext6 G 044	Shuttlelift	7 K 115
Goodyear Dunlop	5a F 001	Skyjack	Ext 5 H 015
Ground Guards	6 H 020	Smie	Ext6 A 011
Groupe Cayola	Ext6 A 007	Socage	Ext 5 G 009
Hatz-Diesel	5b L 001	Société Générale Equipment Finance	5a L 035
Haulotte	Ext 5 H 004	Soilmec	5b C 042
HBC-radiomatic	Ext6 D 030	SSAB	5a D 073
Hinova	Ext 5 G 015	Stros	7 K 116
Hirschmann	5a G 106	Sunward	6 J 153
Hitachi Sumitomo	6 L 046	SwissTIP	5a G 108
HMF	Ext 5 B 005	T.M.A. Winches	5a H 015
Holland Lift	Ext 5 G 010	Tata	5a J 094
Ihimer	7 F 113	Tele Radio	5a H 113
Ikusi	5a K 105	Terex	Ext 5 E 010
Imet	5a H 106	Teupen	Ext 5 B 014
IMM Hydraulics	5a D 002	Thyssenkrupp	Ext 5 E 016
IPAF	Ext 5 G 005	Time France	Ext 5 J 021
Isoli	Ext 5 J 021	Trelleborg	5a B 064
Isuzu	5b D 002	Trimble	5a L 077
Iveco	6 J 116	TTControl	5a K 115
JCB Drivetrain	5b J 042	TVH	5a K 086
Jiangsu Topower Wheel	5a G 042	Tyri Lights	5a G 064
JLG	5b F 041	Unacea	6 B 025
Junjin	5a E 075	Unic Cranes Europe	Ext 5 J 016
KAB Seating	5a H 063	Van der Vlist	5a C 115
Kamag	Ext6 C 029	Vertikal Press	Ext 5 L 004
KHL	6 D 002	Vis Hydraulics	5a C 048
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KMK Rubber	5a G 127	WireCo	5a J 054
Kobelco Cranes	Ext6 D 059	Yanmar	5b L 027
Kohler	5b M 001	Zhejiang Hongyuan Wheel	5a H 150
Kubota	5a B 073	Zhejiang Yuan Chuang Rubber Track	5a G 034
Le Journal Du Levage	6 C 015	Zhenjiang Hydraulics	5a C 025
Le Moniteur	6 C 012	Zoomlion	7 H 001
Lectura	6 D 016		
Leguan	Ext 5 B 010		
Liebherr	Ext6 E 035		
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Locatelli	Ext6 D 056		



# Sixth year of growth

c&a

ARA show

The American Rental Association's annual Rental show, held this year in the jazzy city of New Orleans, saw increased visitor numbers for the sixth year in a row, the first time this has happened since the 1980s. According to the organisers attendance this year was up five percent on last year. This was certainly evident on the morning of the first day when registrations desks were swamped by those looking to obtain their passes. However day two seemed a little quieter than usual, with day three being pretty typical.

The stand space was once again sold out, although some gaps were evident, either through the odd 'no-show' or on the edges of some areas. This caused disgruntlement among those who could not obtain stands, such as Wolf Haessler's WolfLift, while TCA/Bluelift/DinoLift/Galizia/Denka/R&B dealer ReachMaster had its usual stand space allocation reduced against its will in order to "make way for new exhibitors". It displayed a sign voicing its dissatisfaction.

The show itself was one of the best in recent years in terms of new products, with significant product launches from the three largest aerial lift companies - JLG, Genie and Skyjack - while several smaller exhibitors showed some interesting new models and ideas.

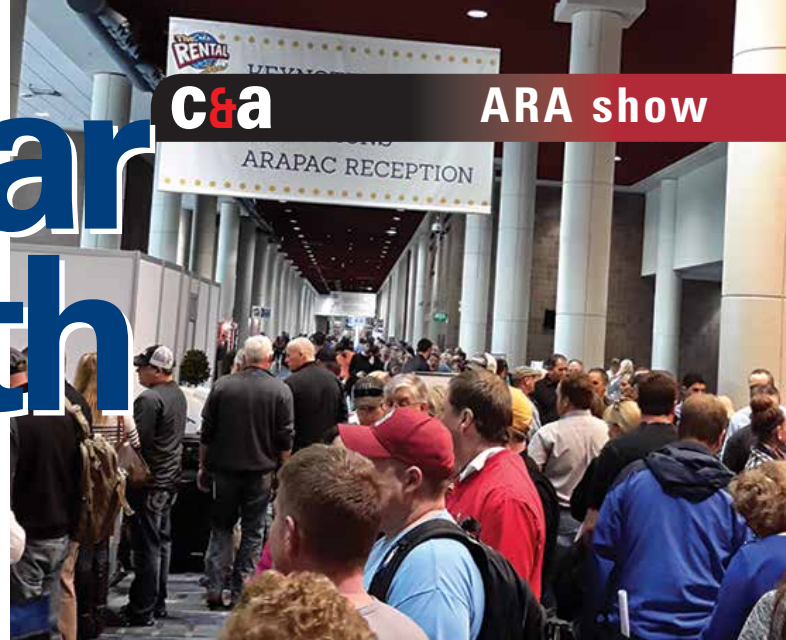
## New 150ft boom

Genie led the way with a surprise

launch of a new 150ft version of the SX180 which began shipping last year. The new model essentially the same, but with one less boom section and a good number of small, yet significant operational improvements that will almost certainly find their way onto the 180. For many rental companies the new machine will be a more attractive proposition than the 180, as it features the same outreach, greater platform capacity, the same slewing jib, and a lower transport weight.

## 30 years and booming

Celebrating its 30th anniversary Skyjack had the next largest new product at the show with its 80/86ft SJ80T and SJ86TJ, one with a jib and one without. The largest Skyjacks so far mean that the company now



The new MEC 60J is a simple functional machine

covers around 80 percent of the boom lift market. (See news pages for 'How the SJ86TJ stacks up').

## Basic boom

Another new boom came from MEC which unveiled its all new 60ft articulated telescopic 'back to basics' 60J. While not the first boom the company has designed and built, it looks as though it will be the first it puts into production. The new machine uses a single, fairly long riser, two section boom and jib to achieve its 60ft platform height, offering 20 metres of working

height. The machine has been designed to a brief supplied by a number of major rental companies - including NES - which believes that it has exclusivity on the first year's production. The unit weighs just over eight tonnes, offers 13 metres of outreach and aims to be around 10 percent less expensive than competitive booms.

## "2015 - The year of the Launch"

JLG said that it will launch more new products in 2015 than in any other year in its history. Many



The Genie SX-150 was unveiled at an evening event at the impressive WWII Museum



Skyjack SJ86T





JLG also had a private display of its new products in the New Orleans Super-Dome



The new JLG 5394RT

of them were unveiled at the ARA, including new 40 and 46ft telescopic booms - the 400S and 460SJ - and a new version of its 450AJ 45ft articulated boom. The new machines looked like updated and restyled versions of its current products, but they have been extensively redesigned with new structural components and improved performance including higher platform capacities, better outreach and more efficient hydraulics. New features include full text information readouts with MIDI connectivity, Dura Tough polymer covers that are exceptionally resistant to damage and are painted, so less likely to fade. The company also launched its largest US-built scissor lift to date, the 53ft 5394RT, with 680kg platform capacity and dual deck extensions. Maximum drive height



Snorkel's first telehandler along with the new 600SJ boom lift.

is 30ft, but the unit weighs less than eight tonnes.

JLG telehandler launches included full and substantial updates to all five of its North American models, including the 5.4 tonne/17 metre 12544. All units have the new Dura Tough covers, Tier 4 Cummins power, improved telescope design with external cylinder, and a new axle stabilisation system. The company also upgraded its SkyTrak telehandlers - most noticeable was the improved cab comfort and layout for both open and enclosed cabs.

**Snorkel surprise**

Snorkel was another stand with major new product introductions, just 16 months after its acquisition by Don Ahern. The first product to grab the attention was a new compact telehandler, the first to carry the Snorkel brand.

The unit will eventually be sold internationally, and while it is based on an Xtreme model, it has been simplified for the rental market. Aerial lift introductions included a new line of four slab electric scissor lifts, the S3219E, S3226E, S4726E, and S4732E with 19, 26 and 32ft platform heights, aimed initially at the North American market. The new scissor stack structure harks back to the Economy Engineering days (acquired by Snorkel in the 1988) using an end knuckle not dissimilar to that now used by Skyjack. The units - designed for rental - include steel diamond plate decks, new wider roll-out extensions with telescopic guardrails, saloon style entrance gate, fixed upper control box, bigger king-pins and a gravity actuated pot-hole system. They also include some interesting touches such as dual swing-out component chests, to allow opening in narrow work or storage areas.

A new 66ft telescopic boom - the 600SJ - was also on show, with a new secondary guarding system 'Snorkel Guard' which cuts all

functions when depressed, but allows the machine to be operated from the base. The large platform features three entrance gates and an interesting steel deck surface, covers are heavy steel but formed into an attractive styled shape. The unit is the first and largest in a three model line that will include 46 and 60ft versions.

**Cranes**

The number of mini cranes on show grows each year, as do the spider lifts. The most interesting new product this time came from specials producer Bailey Specialty Cranes and Aerials and its 'omni directional' version of its Brandon self-propelled mini crane, which now offers a range of attachments including an integrated work platform. The crane/platform's four wheels are turned via a worm drive mechanism on each wheel allowing all four wheels to turn more than 90 degrees to permit pure sideways movement or turning on the spot.

While the above covers the major new product introductions, there was plenty more to see, here are a few glimpses of the rest of the show.



The Omni-directional Brandon crane/platform.



Snorkel's dual component chests and new scissor arm design



The new Snorkel Guard secondary guarding



The new Snorkel 600SJ



Sumner appears to be taking an ever larger share of the material lift market



ReachMaster launched its new Dino lift dealership on its very small stand



TVH now with EPW on board



Bronto - a surprising exhibitor - had the S150XDT better known in Europe as the 46 metre S46XDT





JLG 5395 RT



The move to solid perforated cushion tyres for telehandlers is gaining ground rapidly in the USA



The Tracked-Lifts stand with Ommelift and Platform Basket



Teupen was one of many spider lift companies exhibiting



PRO Charging Systems demonstrated its new Delta Volt Patriot Series charger in a fish tank full of water



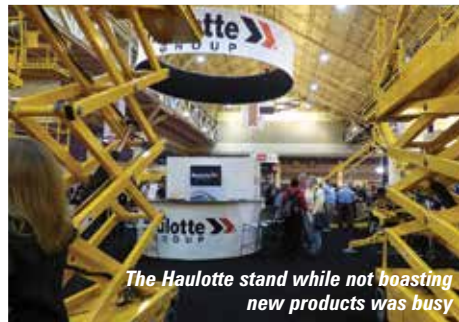
Coast2Coast Equipment demonstrated its rebuild skills with this machine with a split personality



Manitex and its first stand with Oil&Steel



Custom Equipment highlighted its 12ft Hy-brid HB1230 scissor which is as compact as a 12ft mast type lift with a larger unencumbered platform



The Haulotte stand while not boasting new products was busy



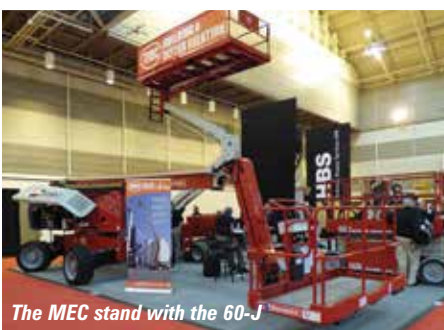
Celebrating 21 years in the USA Niftylift had one of the best stocked access stands at the show



Giles Council of IPAF finds some interest



Yet another spider lift entrant - the Easylift



The MEC stand with the 60-J



Secondary guarding was noticeable on many displays, this one on the Genie stand, with some companies making it standard



Sorry for our messy booth!  
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# Record attendance for Executive Hire Show



The UK's Executive Hire Show, held once again in Coventry, attracted over 2,000 visitors this year, boosted in part by an astonishing 318 representatives from A-Plant, and over 40 visitors each from Brandon, GAP and Hirebase.

Hook-Up Solutions' 1.5 tonne Hooka pick & carry crane was one of the eye catching lifting exhibits at the show. Designed to lift and move bulk building materials, the Hooka is mounted on a Hinowa tracked chassis and can lift up to 1.5 tonnes, including pallets or bulk bags to a height of 2.65 metres or place the load on its carry deck.

Youngman unveiled 14 new and five improved components for its BoSS scaffold system. It also had a new low level tower on show that can be made from standard BoSS components, multiple units can be linked together.

Power Towers exhibited its new 4.2 metre Ecolift - the big brother to its highly successful Pecolift - with 700mm more working height. An outdoor version is also available which can operate on grades of up to three degrees and winds up to 28mph.

Imer, Maber and Lockhard distributor CLM highlighted Lockhard's battery powered Alulift scaffold tower with elevating platform, which can lift up to 250kg to a height of 12 metres, or 24 metres when secured to a building.

**Next year's show - its 10th - will be held 10th-11th February in the Ricoh Arena, Coventry**



Hook-Up Solutions' new pick & carry crane



Power Tower's 4.2 metre ecolift



Lyte Ladders & Towers launched its glass fibre HiLyte Leader GRP 500 tower and announced it now manufactures Skafray products



Youngman's BoSS low level work system



Euro Towers' prototype storage system with built-in fork pockets



The Spiderlift Company had a 14.9 metre CMC S15 spider lift on display



(L-R) Malcom Kitt of Sky King with Almac export manager Fabrizio Rossi and the auto-levelling Bibi tracked scissor lift



Sumner's prototype counter-lift drywall unit





Lockhard's battery powered Alulift scaffold tower



Weighing just 150kg the five metre Skywinder 300 AT push around lift features rough terrain tyres and outriggers for outdoor use on challenging terrain



Manitou showed its MT 625 telehandler, 100 VJR mast boom (above) and a Gehl R260 skid



Custom Equipments' recently CE-marked 5.66 metre GB1230 self-propelled scissor lift



A Bravi Leobardo HD scissor lift fitted with a construction panel handling attachment



Geda had a number of transport and material platforms on show including its 300Z



Hird has recently taken on Power Jack's range of load links with capacities from 12.5 to 500 tonnes



Elebia announced it has incorporated load scales to its range of automatic crane hooks



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# Steady growth to new records

A record number of 137,429 people were trained by IPAF-approved training centres during 2014 - up 7.9 percent on 2013. The number of PAL operator cards issued also increased by seven percent to a record number of 130,230 PAL cards issued worldwide.

There are now more than 640 IPAF-approved training centres around the world and more than half a million valid PAL cards in circulation. Training available from IPAF-approved centres, includes operator courses for which a PAL card is issued, along with harness and management courses for which a certificate is issued. At the end of 2014, IPAF had a total of 1,109 members from 53 countries.



A record number of people were trained by IPAF last year

## Summit speakers confirmed

IPAF has confirmed the list of speakers at this year's Summit in Washington, DC, on 26th March. Frank Nerenhausen of JLG, will discuss emerging technologies and their potential application in the access industry in his presentation 'Gimmicks or the next reality'.

Other speakers and topics will include Jordan Barab, deputy assistant secretary of labor and second in command at OSHA, who will give a presentation on the battle to prevent falls from height, Riwal chief executive Norty Turner, on rental operations in emerging powered access markets and Industrial Access (Romania) chief executive Stefan Ponea, who will discuss how new technology is being used to combat crime.



Jordan Barab



Frank Nerenhausen

Up Makine marketing and sales manager Sibel Aygül will provide a talk on uncovering new powered access markets, while Audrey Courant and Joanne Ulnick of Ducker Research will provide the statistics behind the access rental sector as well as providing IPAF's forecasts for the coming year.

Other topics include IPAF's Smart PAL card, the impact of new legislation and standards, eLearning and how to prevent fatal injuries when working near power lines. To see the full programme and speaker

information, or to register, visit: [www.iapf-summit.info](http://www.iapf-summit.info)

## UK member event

Save the date for the IPAF UK member event on 15th October 2015. For more information see: [www.iapf.org/events](http://www.iapf.org/events)



(L-R) Daniel Duclos, Alastair Robertson, Chris Wraith, Søren Rosenkrands and Alexandre Saubot

## IAPA shortlist revealed

The shortlist for this year's International Awards for Powered Access (IAPAs) has been revealed, following the judges' meeting in Paris, France.

The independent judging panel included:

- Alan Dotts, sales manager - special products, Toyota Material Handling,
- Daniel Duclos, owner of French manufacturer ATN
- Alastair Robertson, owner of Universal Equipment
- Søren Rosenkrands, chief operations officer of Riwal
- Alexandre Saubot, chief operating officer of Haulotte
- Chris Wraith, IPAF technical & safety executive
- Non-voting chairman of the judges: Euan Youdale, Access International editor

More than 95 entries across 13 award categories were received for the awards. The winners will be announced at the dinner and awards ceremony on the 26th March in Washington, DC, USA. To see the full shortlist visit: [www.iapa-summit.info](http://www.iapa-summit.info)

## PAL card holders win prizes

More than 460 PAL card holders across five continents entered IPAF's 'Verify and Win' prize draw which celebrated the issue of the one millionth PAL card.

Prize winners came from a wide spread of countries including Australia, Canada, Denmark, Germany, Ireland, Malaysia, the Netherlands, Turkey, UAE, UK and USA and received prizes ranging from an all inclusive trip to the IPAF Summit to rental market reports, t-shirts, hi-viz jackets, caps, pens and clipboards. The draw was open to any of the more than half a million valid PAL card holders who verified their PAL card at:

[www.ipaf.org/checkpal](http://www.ipaf.org/checkpal)

A full list of all prize winners can be found at: [www.ipaf.org/checkpalandwin](http://www.ipaf.org/checkpalandwin)



460 PAL card holders won prizes in IPAF's 'Verify and Win' draw

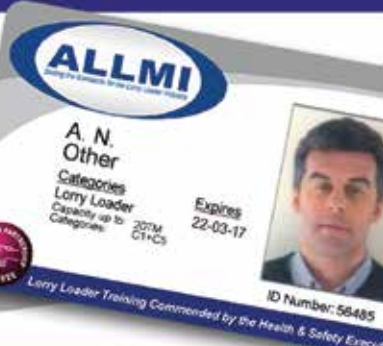




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# Election time

ALLMI has recently concluded its annual election process for the positions of chairman and operators' forum chairman. As a result, both current chairmen were re-elected to serve another term. Mark Rigby of T H White will now serve a 10th consecutive term as chairman of the association, while Steve Frazer-Brown of David Watson Transport has been appointed chairman of ALLMI's fleet owner division for the 10th consecutive year.



Mark Rigby

Rigby said: "It's a great privilege to be able to continue in the chairman's role and to work with the ALLMI board, as well as the wider membership, in bringing about positive change to the industry. ALLMI has a strong and ever-increasing influence over



Steve Frazer-Brown

the raising of standards, and the projects we have planned for 2015 will see us taking further significant steps to improve health and safety to the benefit of all those involved with lorry loaders."

Steve Frazer-Brown added: "It's an honour to be elected as forum



chairman once again and to continue to represent fleet owners on the board, as well as to work with the forum executive committee on so many important issues. ALLMI has always done an excellent job, developing and promoting best practice, but with every year that passes the association gains further

strength and impetus on numerous fronts. I am therefore very pleased that, through the election process, members have given me the opportunity to play a key role in ensuring that this progress continues and that safety remains at the forefront of operators' minds and attitudes."

## Membership review process underway

Further to ALLMI's earlier announcement to carry out an extensive review of its existing membership, a number of companies have already volunteered to be amongst the first to go through the audit process.

Nigel Crooks, managing director of Plant Equipment, said: "As an ALLMI member, we have always operated to very high standards, but we still found the process to be extremely helpful and informative. The auditor looked at numerous areas of our business, such as company policies and procedures, servicing and inspection, defect reporting, lift planning and record keeping. The process also included a review of our facilities and equipment, as well as asking for our opinion on ALLMI services, support and guidance material."

"It was great to have a one-on-one engagement with ALLMI, and we look forward to reaping further rewards from the exercise once all members have been through the process and some valuable industry information and feedback has been collated."



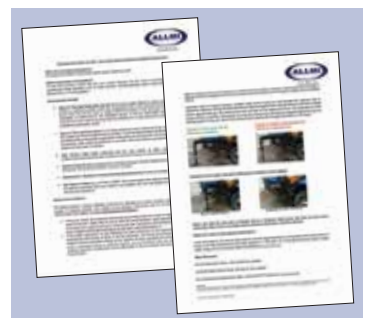
## Guidance on site documentation

ALLMI has released new guidance which looks at the subject of loader crane documentation and stabiliser deployment when on site. Primarily aimed at site supervisors, health and safety representatives and gatehouse staff, the purpose of the guidance is to ensure that crane operators have the correct documentation prior to commencing lifting operations, and to avoid common misunderstandings regarding acceptable stabiliser positions and set up.

In relation to documentation, the guidance looks at issues ranging from reports of Thorough Examination and pre-operational check sheets, through to operator identity cards, safe systems of work and manufacturer handbooks. For stabiliser deployment, it strongly emphasises the default position as legs being fully out and down at all times. It also addresses possible exceptions to this position and so explains the issue of stabiliser monitoring devices. The guidance also highlights the importance of ground conditions.

ALLMI technical director, Alan Johnson, said: "This guidance has been created mainly to assist fleet owners in levelling the expectation and understanding on sites where they are making deliveries. It offers a short explanation of the types of documentation which sites should reasonably expect to see, and a brief overview of how to determine when and why stabiliser legs may or may not be correctly deployed. The document was developed by the ALLMI Operators' Forum executive committee and it's our intention to circulate it as broadly as possible, with the aim of the guidance becoming the expected standard amongst sites within the industry."

For a copy of this guidance, please contact ALLMI.



ALLMI has released guidance on loader crane documentation and stabilisers



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All training centres above offer IPAF/PASMA approved and audited courses. European directives require that all staff are fully and adequately trained in the safe use of the equipment they operate.





## Record apprentice intake for A-Plant

UK rental company A-Plant has announced it will recruit a record 150 apprentices this year - nearly four times as many as in 2014. The majority will be on three-year equipment maintenance programmes, with other programmes include delivery drivers, customer services, human resources, finance and credit.

A recent addition to the scheme is the Mechanical Engineering Apprenticeship for A-Plant's PSS Hire business which supplies equipment to the utility and civil engineering sectors. Last year A-Plant recruited 39 apprentices from 1,200 applications. Following the latest planned intake the company will have a total of 250 apprentices.

## Company and owner prosecuted over fatality

UK building firm Peter Mawson has been fined £200,000 plus costs of £31,504 after an employee fell to his death. Company owner, Peter Mawson, was also fined £31,504 and handed an eight month suspended prison sentence, along with 200 hours of community service.

Jason Pennington fell to his death through a skylight



Jason Pennington, 42, was working on a roof in Lindal, Ulverston, in 2011, when he fell 7.6 metres through a skylight to the concrete floor below. He died shortly after arriving at the hospital. HSE inspector Chris Hatton said: "Peter Mawson knew the clear panels on the roof weren't safe to walk on but neither he, nor his company provided any equipment to prevent workers falling to their death. If scaffolding or netting had been fitted under the panels, or covers had been fitted over them, Jason would still be here today."

Mawson was also given a publicity order to advertise the incident on the company's website as well as to take out a half page spread in the local newspaper.

## Construction opens doors

The UK's Construction Industry Training Board (CITB) has held its third Open Doors event, with over 5,500 young people of all ages visiting construction sites throughout the country. The initiative is intended to encourage more young people to pursue a career in construction.



5,500 school children visited UK construction sites in the CITB Open Doors event.

## Suspended telehandler incident

Scottish contractor M&J Ballantyne has been fined £10,000 plus costs of £551 after Derek Graham, 51, was struck by a concrete beam being lifted by a telehandler on a site in Ketton, Rutland. The five metre beam, weighing 300kg, was suspended from the telehandler's forks using slings. Graham was then positioned to one side to prevent it from swinging.



A more suitable telehandler lifting hook

As the telehandler reversed the slings slipped, dropping the beam on to Graham. He was airlifted to hospital with severe pelvic injuries and is unlikely to return to work. An investigation found that the telehandler operator had not received any formal training, and that a method statement stated that slings should be securely choked around the beam and lifted using a sling-lifting eye. HSE principal inspector Tony Mitchell, said: "The lifting of heavy suspended loads with workers under, or in the near vicinity, is a high risk activity that can result in serious or even fatal injury. The dangers are well-known and understood in the construction industry, and there is ample free guidance available."

The company has since complied with an Improvement Notice and has purchased a suitable lifting attachment for the telehandler.

## Spanish crane operator exams

Following increasing demand the US training company National Commission for the Certification of Crane Operators has made its CCO Mobile Crane Operator exams available in Spanish.

Joel Oliva, director of operations and programme development, said: "NCCCO is committed to maintaining the same standard for all its candidates, whether they are English or Spanish-speaking. We are confident that the new exams provide a level playing field for candidates for whom English is not their first language."



## Who trained them then?

Spotted 200 yards from an access rental depot in Wishaw, Scotland, four men using a makeshift ladder arrangement to secure a radio mast in high winds. One of the men has climbed a seven metre ladder resting on the mast, while the others attempt to keep it stable from the roof.







**NASC**

# Scaffolding with integrity

The NASC Code of Practice product audit applies to new product at point of entry to the UK. NASC supplier members are audited on system scaffold, tube, fittings, timber board and aluminium beam products. From 2015 the audit will incorporate unit transoms and high tensile 3.2mm tube  
[www.nasc.org.uk](http://www.nasc.org.uk)



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# CISRS

## CHANGE IS ON THE CARDS

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[WWW.CISRS.ORG.UK](http://WWW.CISRS.ORG.UK)





Safety & Access and UG group's new CISRS accredited training centre in Chennai, India

## Training in India

UK scaffolding training provider Safety & Access has formed a joint venture with the UG group and opened a CISRS accredited training centre in Chennai, India.

The new training centre will provide tube and fitting, system scaffolding and scaffold inspection training across South India. Following an independent audit carried out by CISRS scheme manager Dave Mosley, the centre has been granted accreditation for training in CISRS Level 1, Level 2 and Level 3 Overseas Scaffolder Training Scheme, basic Scaffold Inspection Training Scheme, Scaffolding Supervisor Training and CUPLOK Systems Scaffold Product Training courses.

Rick Statham, Safety & Access joint managing director, said: "It's been a real pleasure helping to get OSTs off the ground and assist in cementing CISRS's reputation internationally. We are confident that the scheme's solid start will continue to snowball and we hope to be celebrating further milestones in training completed and CISRS cards issued, as the scheme develops. The availability of scaffolder training in India will be a huge boost for our clients and Indian nationals that seek formal qualifications in scaffolding. There is also a big interest from our clients in the Middle East that look to India for their labour."

Safety & Access has also opened a CISRS-accredited training centre in South Korea with Samsung Heavy Industries. Since its introduction several hundred scaffolders have completed both Level 1 and Level 2 OSTs training with regular Scaffold Inspection and Scaffolding Supervisor courses currently being completed.

## Annual audits

Ian Fyall



In April CISRS will be returning to Dubai, Ajman and Qatar to carry out annual audits on Simian Skill and Safety & Access approved training centres.

Simian Skill operations director Ian Fyall, said: "There is so much work going on across the region with many very large and important companies operating in the sector. A lot of these multinational companies promote safe working conditions and look to train their workforce to a high standard. In the UK they would insist that only CISRS qualified scaffolders work on their projects. It is now the job of CISRS and its accredited providers to make them aware that their training programmes are available locally, and as such they can then demand the same standards and requirements in the UAE and surrounding areas."

For further details about CISRS Overseas Scaffolder Training Scheme (OSTS), a list of approved training providers, or to find out more about CISRS, please visit: [www.cisrs.org.uk](http://www.cisrs.org.uk) or email [enquiries@cisrs.org.uk](mailto:enquiries@cisrs.org.uk).



## CISRS training expands internationally

Following the achievement of more than 50,000 CISRS card holders in the UK, the CISRS Overseas Scaffolder Training Scheme (OSTS) has notched up its own milestone have trained 2,500 scaffolders.

The Overseas Scaffolder Training Scheme was originally developed three years ago by CISRS and two of its UK approved training providers, Safety and Access and Simian Skill. Currently operating throughout the UAE, Qatar, South Korea, India and the Philippines, the CISRS OSTs centres are operated by or in partnership with accredited UK providers. The training is carried out by UK approved instructors and is based on the same principles as the original training scheme, with the UK's health & safety and industry guidance an integral element.

CISRS scheme manager & NASC director of training, Dave Mosley, said: "The news that we have trained 2,500 overseas card holders via the CISRS Overseas Scaffolder Training Scheme in such a short period of time is very positive indeed. We are really getting the message out across the globe that CISRS is the right training programme for scaffolders."



Scaffolders undertaking CISRS OSTs training at Cape Asia Academy centre in Muntinlupa City, Philippines

## Save the date

The NASC & CISRS will be exhibiting at the Health & Safety Scotland Event at the SECC in Glasgow on the 22nd-23rd April. For more information visit: [www.healthandsafetyevents.co.uk](http://www.healthandsafetyevents.co.uk)

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## Instructor training dates announced

PASMA has announced the dates for its training instructor courses in 2015, for all those wishing to qualify as instructors. The dates are now available on the PASMA website. The training comprises of four separate modules delivered over the course of a single week and conducted from PASMA's five national instructor training centres. After the successful completion of the four modules, delegates must then run three training courses under the mentorship and tutelage of an existing PASMA lead instructor.

**Module 1:** Instructional techniques - A two-day module designed to conform to the requirements of Level 3 Award in Education and Training (previously PTLLS), preparing to teach in the lifelong learning sector.

**Module 2:** Safety at height - A one-day module intended to ensure that delegates are fully conversant with the latest legislation and regulations concerning the safe use of mobile access towers in the work at height sector.

**Module 3:** Mobile access towers (industry specific) - A one-day module, self-accredited by PASMA, designed to ensure that delegates are aware of, and fully understand, every aspect of safe working and best practice.

**Module 4:** PASMA training scheme - A half-day module intended to familiarise the candidate with the association's standards, protocols and procedures for the delivery of its national training scheme.

Candidates must meet specific criteria before being eligible to apply to become a novice instructor. For more details, including the course dates for 2015, please visit: [www.pasma.co.uk](http://www.pasma.co.uk)

## App advantages

Available to download for free, the PASMA mobile app provides a huge range of practical information about mobile access towers that can be used in the workplace on a day-to-day basis. Designed to support safety, encourage best practice and improve productivity, it speeds and simplifies the whole process of information gathering. The association says the app can be useful for anyone on the go, and using towers, no matter where they are located.

Benefits include:

- Access to manufacturers' instruction manuals.
- The opportunity to check for information on the PASMA Code of Practice.
- A quick and easy route to finding approved PASMA training centres and rental companies.
- The chance to keep on top of the latest news and developments relating to mobile towers.
- The ability to upload tower images.



PASMA's mobile app is free to download

Already in extensive use, the PASMA mobile app is a useful, practical tool employing the latest technology to deliver instant information and help when and where it's needed.

PASMA's Annual Members' Meeting will be held at the Coombe Abbey Hotel in Warwickshire



## Annual Members' Meeting 2015

PASMA's Annual Members' Meeting will once again take place at Coombe Abbey Hotel in Warwickshire on Friday 3rd July. Located a few miles from the M1 and M6, Coombe Abbey is a four star country house hotel with 119 rooms set in 500 acres of parkland.

Meanwhile the association is currently requesting images and short case studies for inclusion in the 2014/15 Annual Review. Details of complex or unusual applications are particularly welcome, including any showing towers in use at iconic locations. In the first instance please send them to: [helen.paterson@asma.co.uk](mailto:helen.paterson@asma.co.uk)

## Tips from the top

2015 promises to be a busy year for the Access Industry Forum (AIF), with dates in the diary already including:



- 22nd April: The Forum will present a paper at the 40th anniversary conference of the Birmingham Health, Safety & Environment Association (BHSEA) at the Barclaycard Arena, Birmingham.
- 16th-18th June: In addition to exhibiting at the Safety & Health Expo, the Forum will also deliver a mainstream conference paper at the official IOSH Conference at ExCeL in London's Docklands.
- 22nd-23rd September: The Forum will talk about the latest developments in work at height at Hire Association Europe's (HAE) 2015 Convention at Loughborough University.

Each of the nine organisations in the Access Industry Forum represents a different sector of the access industry and fosters and supports codes of good practice, equipment standards, training, education and knowledge.

Over 5,000 copies of it's PocketCard 'What to watch when working at height' have already been distributed by Working Well Together at its nationwide Safety, Health & Awareness Days.



AFI's PocketCard



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

Visit PASMA at the Safety & Health Expo 2015, 16th - 18th June, at ExCeL, London



## New CPA guidance projects

The CPA's Strategic Forum Plant Safety Group has begun work on a guidance project for site management, supervisors and operators to prevent inadvertent operation of the controls on general construction equipment, including telehandlers. It will also revise its guidance on using excavators to lift loads.



*Lifting loads with an excavator is not its principle function*

## Excavators for lifting

The CPA is planning to revise its 'Lifting Operations in Construction when Using Excavators' guidance which was first published in 2008 and updated in 2009.

The use of excavators for lifting operations, particularly on construction sites, has become more common over the last few years. Excavators and backhoes are designed for rapid earth moving and are not for lifting loads. The guidance suggests that when planning a lifting operation, you should firstly consider whether an excavator is the most appropriate machine, taking into account the type of lift and the duration of the task. Topics for revision and new additions to the guidance include definition of rated object handling, requirements for excavators equipped for lifting, rated lift capacity indicator issues and hazardous location issues including roads and railways.



*The UK Strategic Forum Plant Safety Group has begun work on guidance to prevent inadvertent operation of controls on construction equipment*

## Inadvertent operation of controls

Last year the UK Health and Safety Executive (HSE) published its results on the inadvertent operation of controls on excavators and mobile equipment. During the course of its research the HSE interviewed a number of operators, many of whom said that they had either experienced these types of incidents first-hand, or had seen it happen on site, sometimes with horrific consequences including fatalities. One example involved an operator who was climbing down from his crawler mounted excavator, when his coat got caught on the track drive lever which started them running, causing his foot to become trapped underneath the machine.

Although the HSE research concentrated on excavators, many of the issues raised are common to other construction equipment such as telehandlers. Some incidents were attributed to operator behaviour, reaching for other controls/items or moving around the cab etc... while other factors included the operator being distracted, and issues relating to control layout. For the operator, there are a number of simple actions that can be taken to minimise the risk. The first is to avoid loose clothing, as bulky high-visibility overcoats can easily catch on a joystick or track drive lever, particularly when twisting around in the cab or getting in and out of the machine.

For site supervision and management, there are a range of issues they should consider, including how instructions are communicated to the operator, ensuring that there is adequate time for them to operate the machine and get out carefully, and making sure that there is always proper separation between the machine and other people on site.

The full report can be downloaded from the HSE website: [www.hse.gov.uk/research/rrhtm/rr1000.htm](http://www.hse.gov.uk/research/rrhtm/rr1000.htm)

Although the report does not cover aerial work platforms or remote controls, the Strategic Forum Plant Safety Group is inviting readers to share their experiences or incidents of inadvertent operation of controls with the working group. This can be done on the Strategic Forum Plant Safety Group page of the CPA website: [www.cpa.uk.net/sfpg](http://www.cpa.uk.net/sfpg)

## CPA at Vertikal Days

CPA will once again exhibit at Vertikal Days this year, which is being held at Haydock Park on the 13th -14th May.

On the first day of the show the association will hold a Strategic Forum Plant Safety Group Outreach Meeting. Discussion topics will cover telehandlers, including new work on suspended loads, and the recently published guidance on ground conditions, as well as operator competence, medical fitness and the public health responsibility deal. CPA's new

projects on inadvertent operation of controls and lifting with excavators will also be covered.

The CPA is also planning a number of small round table briefings on its stand, covering popular topics such as ground conditions etc... To register for the Outreach Meeting, visit the Strategic Forum Plant Safety Group page on the CPA website: [www.cpa.uk.net/sfpg](http://www.cpa.uk.net/sfpg)



*CPA is exhibiting at Vertikal Days again this year.*



# Crane cab HVAC units

US air conditioning and heating systems manufacturer Kenway Engineering has introduced the Kenway 9067, a hydraulically powered, flameless heating, ventilation and air conditioning unit for off-road construction equipment.

Ideal for cranes or telehandlers working on sites that restrict or prohibit heaters running on propane or diesel, the 9067 can be installed as a split unit system or a self-contained unit. With no hydraulic oil reservoir or filters, it requires minimal maintenance and there is also little to no thermal impact on the machine's oil reservoir, as the hydraulic power is only used to heat the cab.

With an idle output up to 27,000 Btu/hour the system provides temperatures up to 96 degrees Celsius, and works just as well with cooler-running EPA Tier 4 engines, as it does not rely on engine heat.

Kenway's chief engineer, Rey Carlson, said: "All other crane HVAC systems suffer from thermodynamic inefficiencies. The compressor might be hidden deep in the engine compartment, while the evaporator and heater core are in the cab. The distance requires multiple hoses and connections. The result is pressure/flow losses and temperature changes."



The compact unit is suitable for most cabs.

# Biodegradable lubricants



Metalube has launched a range of biodegradable lubricants for wire ropes.

UK industrial lubricants manufacturer Metalube has launched Rope-Tek WRD, a new range of eight biodegradable lubricants specifically designed to protect steel wire rope.

The WRD 5, 10, 15, 20, 25, 30, 35 and 40 products are produced from base oils and thickeners to provide protection against corrosion induced failure. An additive system forms a low friction barrier between the metal surfaces, minimising frictional contact and wear from movements such as ropes bending and flexing over sheaves. The lubricants are also highly resistant to water, helping prevent them from being wiped from the rope.

# Scaffold safety light

WHI Safeguard has launched a new LED scaffolding and barrier safety light. The battery-powered light can be fitted quickly and securely to existing scaffolding and other surfaces using side/vertical mounting brackets.

The safety light automatically activates when natural lighting falls below a certain level and its LED bulb provides more than 4,000 hours of use before the batteries need replacing. The light is also protected against dust, water and other substances found on a construction site.



WHI Safeguard's new scaffold and barrier safety light



The Tycan chains provide excellent outdoor performance and endurance even in very harsh operating conditions

# Fibre link chains

Synthetic rope component supplier DSM Dyneema and Load Solutions have formed a strategic partnership to develop link chains made from ultrahigh molecular weight polyethylene fibre.

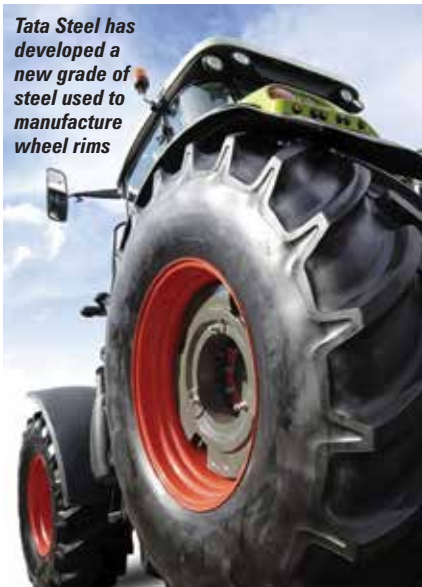
The Tycan chains are made with Dyneema DM20 fibre and offer a range of economic, environmental and safety advantages over traditional steel/iron chains. Up to eight times lighter than regular steel link chains with the same strength, the fibre chains are easier to handle and faster to put into position. Resistant to chemicals the chains can secure cargo without causing damage and are able to withstand shock loads without stretching. They are also more flexible for holding heavy loads than ropes, and it is very easy to shorten link chains to the required length.

Kjell Veka, managing director at Load Solutions, said: "The heavy steel chains that the cargo lashing market has relied on until now are difficult and noisy to use, they can rust, and they are tough on cargo, equipment and lashing crews."

# A new grade of steel

Indian steel manufacturing conglomerate Tata Steel has developed a new steel grade for manufacturers producing wheel rims for off-road vehicles such as cranes, telehandlers and tractors.

Typically, the wheel rim manufacturing process includes a number of steps, including forming, flash-butt welding and, often cold, ring rolling which imparts high stresses on the steel during production. The failure of welds and splitting, typically on the fusion line, during the post-weld forming process, results in an increased need for manual inspection and either significant reworking to remove the defect or scrapping of the wheel. Produced at Tata Steel's Port Talbot plant in South Wales, it can be supplied in either coil form or processed plate.



Tata Steel has developed a new grade of steel used to manufacture wheel rims

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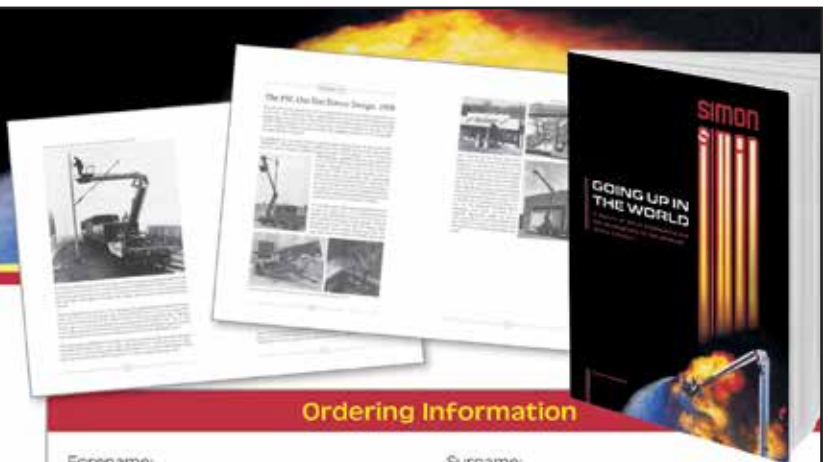
Ashworth was a keen engineer and from an early age found himself in at the very start of the modern powered access industry.

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# Liebherr LTM 1500 Luffing Jib

This review looks at a kit which provides jib options for the 1:50 scale model of the Liebherr LTM 1500-8.1 All Terrain crane. It is made by WSI Models, which also produces the crane model. The real jib can be fitted in many fixed or luffing configurations and a maximum system length of 145 metres under hook can be achieved. The model contains parts to enable the full jib to be built.

It comes with an instruction manual which has a parts list and clear photos showing the assembly of the maximum length configuration, but it would have been nice to have some information about other configurations. Assembly is generally straightforward.

The kit is very detailed with accurately modelled components throughout. Metal sheaves are used, and metal mesh is used for the various walkways and platforms. Jib section connections are generally made using brass nuts and bolts, and in some places, pins.

A number of the lattice sections are modelled in plastic, rather than metal and this is probably a compromise to reduce the weight of the jib, which is around 1.6 metres long in its longest configuration. The plastic parts are strong and well-made but there is a perceptible colour difference to the metal parts. The main feature of the kit is the sheer variety of configurations that it is possible to build. In addition the parts also make good transport loads.

The LTM 1500-8.1 crane is a stand-out model and it is fitting that the jib for it has been made as an add-on accessory. It scores well for high detail and flexibility, but the small colour differences in the plastic and metal lattice components will annoy some. The kit would be better if the plastic parts were painted to match the metal parts. With that said, the kit does allow impressive displays to be achieved and at the full model rigged with the full jib is almost three metres tall.

The kit is €298 from the Liebherr webshop.

To read the full reviews of these models visit [www.cranesetc.co.uk](http://www.cranesetc.co.uk)

## Cranes Ect Model Rating

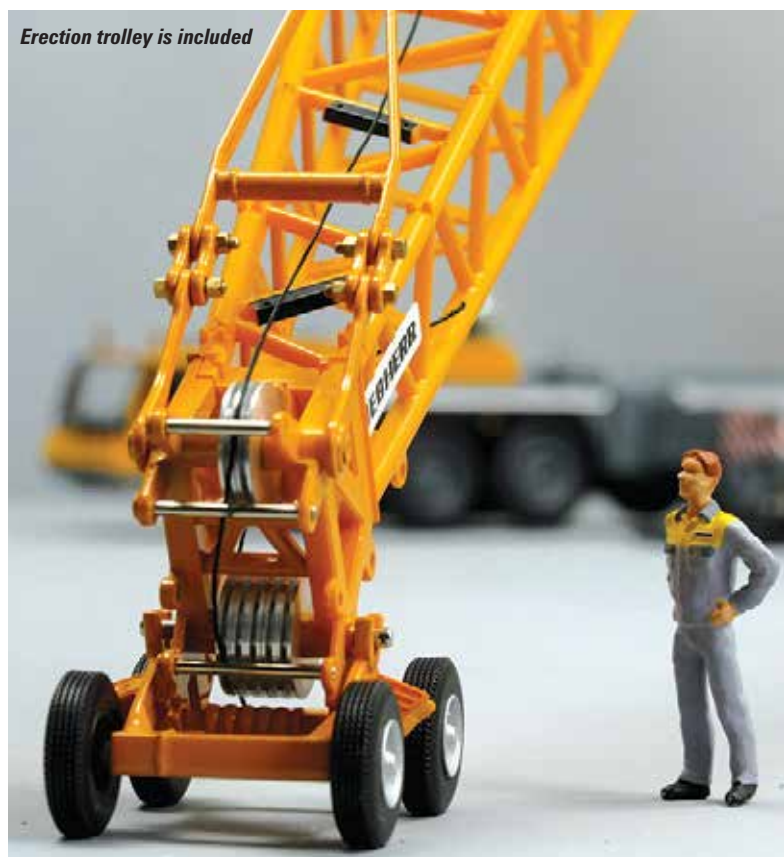
Packaging (max 10)	Individual scores are not given for accessories and kits.
Detail (max 30)	
Features (max 20)	
Quality (max 25)	
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Overall (max 100)	



Lifting a tower crane section



Luffing jib pivot as a load



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Rigged with a short jib



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## Long coiled extension leads an absolute No-No

Dear Mark,

May I take the opportunity to thank you for another interesting article about the "Black Art" of Batteries & Battery Chargers.

However, as an energy professional, I was a little disappointed to see an image of a coiled up extension lead that was connected to the wall socket! In my humble opinion this should not have been shown, as using an extension lead in this manner is absolutely a No-No.

Suffer me if you will. A fly lead used in this way will overheat and create at the very least, an electrical resistance. Take a Holland Lift N-165 EL12. This requires a current draw of 27.5 amps for the Bulk Charging phase of the battery charge. i.e. A period of several (six to eight) hours. A lead to charge this machine, used in this manner would most likely self-ignite or at least trip the breakers, resulting in a broken charge cycle.

Please, in future can you show equipment used in a SAFE & Recognised manner. Anyone looking through your article might easily be misled.

The real issue concerning Fly Leads has been missed in this article. The length of lead (the resistance of the cable) effectively 'reduces' the output of the charger. The solution is to either:-

(1): Select a charger with a varied input parameter e.g. 85~132 vAC. (n.b. These chargers will also cope with the unclean output from GenSets).

OR

(2): Select a "smart" charger that has a cable length parameter contained within its system.

In other words select chargers on specification, not price alone.

There are other ways of overcoming these issues, involving the use of isolation transformers, please let me know if you want any more please feel free to come back to me on these points.

Jim Davies

Norco Group

*We fully agree with everything that Mr Davies says, and the article was in fact intended to make this very point, which it did within the text. But clearly our captions were not as clear as they might have been.*

*We responded to him saying:*

*This is much appreciated Jim,*

*The coiled lead was intended as an example of what NOT to do/ use, and we looked for the worst case example to highlight the point. Perhaps we do not make it clear, we were aiming to make the very point that you have raised.*

*If you agree we would like to use your mail in the letters section of the next issue of the magazine. Either fully attributed - or if you prefer anonymously.*

*He replied: "Many thanks for the reply. Understood now. Please use this as you see fit." Jim Davies*

## Asbestos spore or fibre

Dear Mark,

Looking through the latest edition of C&A, I came to the letter from Craig Evans of UKATA on page 68. In it, he refers to the danger of asbestos 'spores' which, coming from someone who presumably has direct experience of the industry, to me seems completely bizarre. Mushrooms and ferns and things like that produce spores. Asbestos produces fibres which, when they are disturbed, become airborne and hence are available for breathing in.

Mr Evans makes a very valid and important point in his letter, but then goes completely off-track by using incorrect terminology. Perhaps you could publish a clarification in the next edition?

Kind regards (from a geological standpoint),

Simon Walker Principal, I.E.T.S Ltd

Charlbury

England

*Point well taken. Ed*

## A plea for help

Dear Sir,

I would like to publish something in writing, about how some of the managers in Scotland are putting unnecessary responsibility onto the mobile crane operators just to fill their pockets!

The offset of this is that the manager has a hold over his/ her employees, as in there are not that many choices of other crane hire companies here in Aberdeen, so the crane operators who have costs like a mortgage the manager will, on a one-to-one basis make it clear that he knows how much debt you are in. Then he/she will prey on your darkest fears to get the said personnel to go and do the hires that no one else will do, because they have got not the same issue, or organised their life in a different way.

These situations have several complications, and they effect the whole operation, least of all by the pressure that has just been placed upon the operator, who already live on the edge of life!

To anybody out there could you please give any advice to the people who are in this situation, (just wanting to better themselves).

Name withheld

*This letter came in not particularly in relation to another letter or article - at least that we know of - It is clearly a plea for help. Although the details are not exactly clear. If you have any advice etc we will of course publish your response.*



# Readers Letters

## Crane operators doing it all

Following Tim Proud's letter published in the last issue of the magazine we published an online comment on the subject and are currently running a vote on what a company finding itself in the position he highlighted - i.e losing business to competitors who bend, or even flout the standards, regulations and best practice guides. So far no one has been prepared to put their head above the parapet and agree or disagree with this point. However on line a couple of people focused on a word rather than any significant point, however the consensus under the drama and rhetoric the point seems to have been made that even the most basic lift requires the crane operator and a slinger signaller and/or a crane supervisor and that having a crane operator do all three is not safe.

In one comment John Lowton said: "May I refer to a letter from Andrew East HSE Head of Construction, dated December 2004, take a look all and refresh your memory, especially when planning for a Basic Lift. With regards to supervision BS(7121) does state that the Crane Supervisor can take on the role of the slinger/signaller. I have inserted the definition of a "Basic Lift" If the weight of the load(s) can be simply established, and there are no hazards or obstructions within the area of the operation, then the duties of the Appointed Person should include the following which is a - k. Which you should all be able to reference from your copy of the standard. Thanks, John

In poll on the subject we asked:

***'If faced with losing your business or joining competitors that miss-interpret best practice guidance what do you do?'***

At the time of going to press 399 people had voted

**65.6%** said: 'Stick to your guns and try and stay in business'

**4.0%** said: 'Join them when doing so seems safe'

**7.8%** said: 'Demand that the rules are changed'

**22.6%** said: 'Blow the whistle and demand enforcement'

The past few weeks has seen the passing of several crane and access industry veterans, the following is a review of their lives.

## Dennis Fokko Doornbos 1950-1915

Dennis Doornbos, owner and chairman of Dutch crane and access company Doornbos Equipment, passed away on the night of March 11th after several years of ill health. He was just 64. He leaves behind, wife Linda, daughter Denise and sons Frank and Stuart.



In May 2012 his deteriorating health caused him to hand over the day to day management of the company to Joost Buck, although he remained involved with the business. Last October his daughter Denise took over as managing director and now manages the business with her brothers, Frank and Stuart, the fourth generation of the Doornbos family to do so.

Dennis Doornbos began working full time at the family company - a diverse equipment rental and sales business founded in 1939 by his grandfather - at the end of the 1970s, joining his brother and two cousins. It soon became apparent however, that four family members at the head of one not so large company was too much, so they all agreed to split the business up and go their own ways. Dennis took the crane hire division, which apparently none of the others cared for - possibly because it was making a loss at the time?

Over the years he transformed the business adding aerial work platforms, forklifts and telehandlers to the core crane rental business. He then branched out into the sale and rental of high-pressure water jet/blasting equipment for shipyards. Today the company, still based in Rotterdam, has branches in Amsterdam and Billingham, UK.

Messages of sympathy can be sent to [denise@doornbosequipment.com](mailto:denise@doornbosequipment.com) or Doornbos Equipment BV, Attn. Denise Doornbos, Postbus 11017, 3004 EA Rotterdam, Netherlands.

## Terry Duxbury 1952-2015

UK crane operator and founder of the operators website Lifting World died on January 30th, following a short battle with cancer, he was 62. He leaves behind wife Christine and sons David and Lee, who is currently trying to get to grips with the website, as the family would like to keep it going as a tribute to Duxbury's work in his later years.



He was diagnosed in November, but chose to keep the bad news to himself and his family and was cremated in Ruislip on the 17th of February, when Lee Lifting, one of his previous employers, supplied a mobile crane for his funeral procession. Given his passion for cranes, he would have truly appreciated the gesture.

Duxbury spent more than 30 years as a crawler and mobile crane operator, and over the years worked for a number of companies including: Grayston Crane Hire, Kier Plant, Cox Cranes, Silwood Crane Hire, Westway BP Crane Hire, Baldwins Crane Hire, Marsh Plant and Lee Lifting Services.

Sadly his career ended prematurely when fell into a large unguarded hole on a busy construction site in Greenford, west London in 1998, shattering his leg and foot. He had been stowing the outrigger mats when the incident happened and stepped back into the void. He returned to work before he should have and suffered almost five years as his foot deteriorated. Eventually he had to have his leg amputated below the knee, ending his crane career for good. However he bounced back by mastering the internet and setting up [www.liftingworld.co.uk](http://www.liftingworld.co.uk) as a site for operators to exchange views and discuss safety issues.

Improving crane safety is what persuaded him to become a founding member and director of the United Crane Operators Association (UCOA) - a lobby group for crane operators with aims to improve safety and working conditions.



## Bob Dickey R.I.P

UK crane hire owner Bob Dickey passed away on February 26th following a long illness. Dickey was the owner of Crane Services Leeds, which he merged with David Slack's Nationwide Crane Hire in 1986.

The deal was accomplished with the two owners swapping shares in their businesses, so that each owned 50 percent in both companies. Eventually Crane Hire Leeds became a dormant company, the 'Leeds' was dropped and Crane Services used as an alternate trading name to Nationwide Crane Hire. In 2006 Dickey sold his 50 percent share to Slack, who was later bought out by Ainscough. His sons Craig and Paul still working within the crane hire sector. In the words of a contributor: "Bob was certainly a character to say the least and never minced his words. He started off in the steel erection business and latterly was co-owner of Crane Services Ltd one of the major crane hire companies in the UK. He will be a sad loss to all who knew him."

## Ivor Kiddle 1925-2015

Ivor Kiddle, founder and previous owner of UK-based crane and access company Quinto Crane and Plant Ltd, passed away on February 14th, he was 89.



Kiddle spent most of his career in the crane business, although he started out in construction and was director of the concrete construction division of the Pointer group when it formed a crane and equipment rental business in 1966. Two years later he became general manager of the crane business - Pointer Cranes, with its distinctive pointer dog logo.

The Pointer group was acquired by RMC-Ready Mixed Concrete in 1970, mainly for the group's sand and gravel pits, however it kept the crane and equipment rental operation until 1977, when Kiddle led a Management Buy Out and renamed it Quinto, to reflect the company's five depots. He sold the business last October to local agricultural contractor Oliver Arnold of the Spring Farm Partnership.

Kiddle did a great deal more than found a major crane hire company, he also played a major role in the early days of the Construction Plant Hire Association and was elected onto the CPA Council in October 1979 and served as the council member for the London and South East regions for 19 years, before stepping down in October 1998. He remained an active member of the council, representing the association on various CITB committees until 2002.

During this time, he also served as a trustee of the association, with Tony Chapman (who passed away on 7th January) Bill Law, Ronnie Stuart and Keith Chaundy. In 2002 he received a Lifetime Achievement Award (at the Vertical organised Crane Dinner) for his work in establishing industry associations.

Oliver Arnold said: "Ivor Kiddle built Quinto into a substantial crane hire company with eight depots across East Anglia and the East Midlands with a staff of over 125 people. Under his leadership, Quinto was very much a family business and that extended to the staff. There are many instances of multiple family members working for the company. For instance, a father and daughter worked at Norwich head office and the daughter's husband is a crane driver at the depot. Ivor believed in these close ties."

"As the new owners we are continuing the family business model hoping that our children will one day take over the firm. When purchasing the company during the extended sale process we came to know the Kiddle family well. The sale process went very well due to their straight forward transparent approach. We finished the process as friends, so it was with great sadness to learn of Ivor's passing. Hannah and myself along with the staff offer our condolences to Mr Kiddle's family and friends."

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40 t Demag AC 40-1 City	2005	6x6x6	31,20m + 13,00m
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70 t Grove GMK 4070-1	2000	8x8x8	38,10m + 16,00m
70 t Terex-Demag AC 70 City	2006	8x8x8	50,40m + 1,20m
70 t Funn ATF 70-4	1998	8x8x8	40,50m + 16,00m
70 t Funn ATF 70-4	1997	8x8x8	40,50m + 16,00m
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100 t Grove GMK 5100	2001	10x8x10	51,00m + 18,00m
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## Access Equipment Manufacturers

The Access Platform Company	<a href="http://www.accessplatformcompany.co.uk">www.accessplatformcompany.co.uk</a>
Ascendant Access	<a href="http://www.ascendantaccess.com">www.ascendantaccess.com</a>
Aichi	<a href="http://www.aichi-corp.jp">www.aichi-corp.jp</a>
AIRO	<a href="http://www.airo.com">www.airo.com</a>
Alimak Hek	<a href="http://www.alimakhek.com">www.alimakhek.com</a>
ATN	<a href="http://www.atnplatforms.com">www.atnplatforms.com</a>
Barin	<a href="http://www.barin.it">www.barin.it</a>
Biljax	<a href="http://www.biljax.com">www.biljax.com</a>
Böcker Maschinenwerke	<a href="http://www.boecker-group.com">www.boecker-group.com</a>
Bravi	<a href="http://www.bravisol.com">www.bravisol.com</a>
CMC	<a href="http://www.cmclift.com">www.cmclift.com</a>
CTE	<a href="http://www.ctelift.com">www.ctelift.com</a>
DENKA-LIFT	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
Dino Lift	<a href="http://www.dinolift.com">www.dinolift.com</a>
Dingli	<a href="http://www.cndingli.com">www.cndingli.com</a>
Falck Schmidt	<a href="http://www.tcalift.com">www.tcalift.com</a>
GEDA-Dechentreiter	<a href="http://www.geda.de">www.geda.de</a>
Genie Global	<a href="http://www.genieindustries.com">www.genieindustries.com</a>
Genie UK	<a href="http://www.genielift.co.uk">www.genielift.co.uk</a>
GSR Spa	<a href="http://www.gsrspa.it">www.gsrspa.it</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
Hinowa Tracked Aerial Platforms	<a href="http://www.hinowa.com">www.hinowa.com</a>
Holland Lift	<a href="http://www.hollandlift.com">www.hollandlift.com</a>
Imer Access	<a href="http://www.imergroup.com">www.imergroup.com</a>
Isoli	<a href="http://www.isoli.com">www.isoli.com</a>
Iteco	<a href="http://www.imergroup.com">www.imergroup.com</a>
JLG	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
Ladder Safety Devices	<a href="http://www.laddersafetydevices.co.uk">www.laddersafetydevices.co.uk</a>
Leader	<a href="http://www.leader-piatt.it">www.leader-piatt.it</a>
Leguan Lifts	<a href="http://www.leguanlifts.com">www.leguanlifts.com</a>
Manitou	<a href="http://www.manitou.com">www.manitou.com</a>
Mantis Access	<a href="http://www.mantisaccess.co.uk">www.mantisaccess.co.uk</a>
Mantall	<a href="http://www.mantall.com">www.mantall.com</a>
Matlsa	<a href="http://www.matlsa.es">www.matlsa.es</a>
MEC	<a href="http://www.mec-awp.com">www.mec-awp.com</a>
Niftylift	<a href="http://www.niftylift.com">www.niftylift.com</a>
Oil&Steel	<a href="http://www.oilsteel.com">www.oilsteel.com</a>
Omega Platforms	<a href="http://www.omegaplatforms.com">www.omegaplatforms.com</a>
Ommelift	<a href="http://www.ommelift.dk">www.ommelift.dk</a>
Palazzani Industrie	<a href="http://www.palazzani.it">www.palazzani.it</a>
Palfinger Platforms	<a href="http://www.palfinger-platforms.com">www.palfinger-platforms.com</a>
Planet Platforms	<a href="http://www.planetplatforms.co.uk">www.planetplatforms.co.uk</a>
PB Lifetechnik	<a href="http://www.pbgmbh.de">www.pbgmbh.de</a>
Platform Basket	<a href="http://www.platformbasket.com">www.platformbasket.com</a>
Ranger tracked access	<a href="http://www.tracked-access.co.uk">www.tracked-access.co.uk</a>
Ruthmann	<a href="http://www.ruthmann.de">www.ruthmann.de</a>
Sinoboom	<a href="http://www.sinoboom.com">www.sinoboom.com</a>
Skyjack	<a href="http://www.skyjack.com">www.skyjack.com</a>
Snorkel	<a href="http://www.snorkelusa.com">www.snorkelusa.com</a>
Socage	<a href="http://www.socage.it">www.socage.it</a>
SUP	<a href="http://www.supelefant.com">www.supelefant.com</a>
TCA Lift	<a href="http://www.tcalift.com">www.tcalift.com</a>
Teupen	<a href="http://www.teupen.com">www.teupen.com</a>
Turner Access	<a href="http://www.turner-access.co.uk">www.turner-access.co.uk</a>
Versalift distributors (UK)	<a href="http://www.versalift.co.uk">www.versalift.co.uk</a>
Youngman	<a href="http://www.youngmangroup.com">www.youngmangroup.com</a>

## Scaffold Towers

Eurotowers	<a href="http://www.eurotowers.co.uk">www.eurotowers.co.uk</a>
Instant	<a href="http://www.instantupright.com">www.instantupright.com</a>
Planet Platforms	<a href="http://www.planetplatforms.co.uk">www.planetplatforms.co.uk</a>
Svelt	<a href="http://www.svelt.it">www.svelt.it</a>
Turner Access	<a href="http://www.turner-access.co.uk">www.turner-access.co.uk</a>
Youngman	<a href="http://www.youngman.com">www.youngman.com</a>

## Mastclimbers & Hoists

Adastra Access	<a href="http://www.adastra-access.co.uk">www.adastra-access.co.uk</a>
Alimak-Hek	<a href="http://www.alimakhek.com">www.alimakhek.com</a>
Brogan Group	<a href="http://www.brogangroup.com">www.brogangroup.com</a>
GEDA-Dechentreiter	<a href="http://www.geda.de">www.geda.de</a>
Harsco Infrastructure	<a href="http://www.harsco-i.com">www.harsco-i.com</a>
LTC Hoists Division	<a href="http://www.ltcchoists.co.uk">www.ltcchoists.co.uk</a>
Safi	<a href="http://www.safi.it">www.safi.it</a>

## Specialist Scaffolding

Advance Scaffolding (SW)	<a href="http://www.advancedscaffoldingltd.co.uk">www.advancedscaffoldingltd.co.uk</a>
Harsco	<a href="http://www.harsco-i.co.uk">www.harsco-i.co.uk</a>

## Platform Rental

1st Access Rentals	<a href="http://www.1staccessrentals.co.uk">www.1staccessrentals.co.uk</a>
2 Cousins Access Limited	<a href="http://www.2cousins.co.uk">www.2cousins.co.uk</a>
AA Access (Specialists)	<a href="http://www.aaaccess.co.uk">www.aaaccess.co.uk</a>
Access Link	<a href="http://www.accesslink.biz">www.accesslink.biz</a>

Access Platforms Direct	<a href="http://www.accessplatformsdirect.co.uk">www.accessplatformsdirect.co.uk</a>
Acrolift	<a href="http://www.acrolift.co.uk">www.acrolift.co.uk</a>
Active Rentals Scotland	<a href="http://www.activerentals.co.uk">www.activerentals.co.uk</a>
Actual Access	<a href="http://www.actualservices.co.uk">www.actualservices.co.uk</a>
Advanced Access Platforms	<a href="http://www.accessplatformsuk.com">www.accessplatformsuk.com</a>
Aerial and Handling Services	<a href="http://www.aerialandhandlingservices.com">www.aerialandhandlingservices.com</a>
Aerial Platforms	<a href="http://www.aerialplatformsltd.co.uk">www.aerialplatformsltd.co.uk</a>
AFI- Uplift	<a href="http://www.afi-uplift.co.uk">www.afi-uplift.co.uk</a>
A-Plant	<a href="http://www.aplant.com">www.aplant.com</a>
APL	<a href="http://www.apl-aerialplatforms.co.uk">www.apl-aerialplatforms.co.uk</a>
ATP	<a href="http://www.atphire.com">www.atphire.com</a>
Bluelift	<a href="http://www.bluelift.ie">www.bluelift.ie</a>
Easi up Lifts	<a href="http://www.easiuplifts.com">www.easiuplifts.com</a>
ES Access Platforms	<a href="http://www.esaccess.co.uk">www.esaccess.co.uk</a>
Facelift	<a href="http://www.facelift.co.uk">www.facelift.co.uk</a>
Fraco	<a href="http://www.fraco.co.uk">www.fraco.co.uk</a>
GT Access	<a href="http://www.gtaccess.co.ukk">www.gtaccess.co.ukk</a>
High Access Hire	<a href="http://www.highaccesshire.co.uk">www.highaccesshire.co.uk</a>
Higher access	<a href="http://www.higheraccess.co.uk">www.higheraccess.co.uk</a>
Hi-reach	<a href="http://www.hi-reach.co.uk">www.hi-reach.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
Horizon Platforms	<a href="http://www.horizonplatforms.co.uk">www.horizonplatforms.co.uk</a>
JMS PLant Hire	<a href="http://www.jms-planthire.co.uk">www.jms-planthire.co.uk</a>
Kimberly Rentals Group	<a href="http://www.kimberlyaccess.co.uk">www.kimberlyaccess.co.uk</a>
Lifterz	<a href="http://www.lifterz.co.uk">www.lifterz.co.uk</a>
Loxam Access	<a href="http://www.loxam-access.co.uk">www.loxam-access.co.uk</a>
LTC Powered Access	<a href="http://www.ltcpoweredaccess.co.uk">www.ltcpoweredaccess.co.uk</a>
LTC	<a href="http://www.ltcaccess.co.uk">www.ltcaccess.co.uk</a>
Mainline Access	<a href="http://www.mainline-access.co.uk">www.mainline-access.co.uk</a>
Manlift Hire	<a href="http://www.manlift.ie">www.manlift.ie</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk/Hire">www.nationwideplatforms.co.uk/Hire</a>
Peter Douglass Platforms	<a href="http://www.peterdouglass.co.uk">www.peterdouglass.co.uk</a>
Platform Sales & Hire	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
Readyplant Ltd	<a href="http://www.readyplant.co.uk">www.readyplant.co.uk</a>
Rival	<a href="http://www.rival.com">www.rival.com</a>
Sandhurst Access Rental	<a href="http://www.sandhurst-accessrental.co.uk">www.sandhurst-accessrental.co.uk</a>
Trac-Access	<a href="http://www.trac-access.com">www.trac-access.com</a>
United Powered Access	<a href="http://www.upa-uk.com">www.upa-uk.com</a>
Universal Platforms	<a href="http://www.universalplatforms.com">www.universalplatforms.com</a>
Wilson Access	<a href="http://www.wilsonaccess.co.uk">www.wilsonaccess.co.uk</a>

## Notified Body

Powered Access Certification	<a href="http://www.pac.uk.com">www.pac.uk.com</a>
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## New & Used Platforms

IAPS	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
Advanced Access Platforms	<a href="http://www.aaplatforms.co.uk">www.aaplatforms.co.uk</a>
AFI Resale	<a href="http://www.afi-resale.co.uk">www.afi-resale.co.uk</a>
A.J. Access Platforms	<a href="http://www.accessplatforms.com">www.accessplatforms.com</a>
Baulift	<a href="http://www.baulift.de">www.baulift.de</a>
Davis Access	<a href="http://www.davisaccess.co.uk">www.davisaccess.co.uk</a>
Easi-uplifts	<a href="http://www.easiuplifts.com">www.easiuplifts.com</a>
Facelift	<a href="http://www.facelift.co.uk">www.facelift.co.uk</a>
Flesch	<a href="http://www.Flesch-Arbeitsbuehnen.de">www.Flesch-Arbeitsbuehnen.de</a>
Gantic Norway	<a href="http://www.gantic.no">www.gantic.no</a>
Genie	<a href="http://www.genieindustries.com">www.genieindustries.com</a>
Genie UK	<a href="http://www.genielift.co.uk">www.genielift.co.uk</a>
GT Access	<a href="http://www.gtaccess.co.uk">www.gtaccess.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
JLG	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
JMS Plant Hire	<a href="http://www.jms-planthire.co.uk">www.jms-planthire.co.uk</a>
Kemp Hoogwerkers	<a href="http://www.kemphoogwerkers.nl">www.kemphoogwerkers.nl</a>
Kunze GmbH	<a href="http://www.kunze-buehnen.com">www.kunze-buehnen.com</a>
Lavendon Sales	<a href="http://www.lavendonsales.com">www.lavendonsales.com</a>
Leader	<a href="http://www.leader-piatt.it">www.leader-piatt.it</a>
Liftright Access	<a href="http://www.liftrightaccess.com">www.liftrightaccess.com</a>
Manlift Sales	<a href="http://www.manlift.ie">www.manlift.ie</a>
Mech-Serv (GB)	<a href="http://www.mech-serv.co.uk">www.mech-serv.co.uk</a>
Mr Plant Hire	<a href="http://www.mrplanthire.co.uk">www.mrplanthire.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk/sales/">www.nationwideplatforms.co.uk/sales/</a>
Platforms	
Rothlehner	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
Tracked Access	<a href="http://www.trackedaccess.com">www.trackedaccess.com</a>
Platform Sales	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Promax Access	<a href="http://www.promaxaccess.com">www.promaxaccess.com</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>

Reachmaster (USA)	<a href="http://www.reachmaster.com">www.reachmaster.com</a>
Riwal	<a href="http://www.riwal.com/used">www.riwal.com/used</a>
Turner Access	<a href="http://www.turner-access.co.uk">www.turner-access.co.uk</a>
TVH - Group Thermote & Vanhalst	<a href="http://www.tvh.be">www.tvh.be</a>
Universal Platforms	<a href="http://www.universalplatforms.com">www.universalplatforms.com</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>
Wilson Access	<a href="http://www.wilsonaccess.co.uk">www.wilsonaccess.co.uk</a>

## Special/Bespoke Access & Lifting Solutions

APS	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
GT Lifting Solutions	<a href="http://www.gtliftingltd.co.uk">www.gtliftingltd.co.uk</a>
Ladder Safety Devices	<a href="http://www.laddersafetydevices.co.uk">www.laddersafetydevices.co.uk</a>
JMS PLant Hire	<a href="http://www.jms-planthire.co.uk">www.jms-planthire.co.uk</a>
Liftright Access	<a href="http://www.liftrightaccess.com">www.liftrightaccess.com</a>
Mantis Access	<a href="http://www.mantisaccess.co.uk">www.mantisaccess.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk/Hire">www.nationwideplatforms.co.uk/Hire</a>
Planet Platforms	<a href="http://www.planetplatforms.co.uk">www.planetplatforms.co.uk</a>
Platform Sales & Hire	<a href="http://www.platformsales.co.uk">www.platformsales.co.uk</a>
Ranger Equipment	<a href="http://www.spiderlift.co.uk">www.spiderlift.co.uk</a>
Working At Height Ltd	<a href="http://www.workingatheightltd.com">www.workingatheightltd.com</a>

## Special & Niche Access

Acrolift	<a href="http://www.acrolift.co.uk">www.acrolift.co.uk</a>
DENKA Narrow	<a href="http://www.rothlehner.com">www.rothlehner.com</a>
Easi UpLifts	<a href="http://www.easiuplifts.com">www.easiuplifts.com</a>
Easy Reach Scotland	<a href="http://www.easyreachscotland.co.uk">www.easyreachscotland.co.uk</a>
Facelift	<a href="http://www.facelift.co.uk">www.facelift.co.uk</a>
High Access Hire	<a href="http://www.highaccesshire.co.uk">www.highaccesshire.co.uk</a>
Higher Access	<a href="http://www.higheraccess.co.uk">www.higheraccess.co.uk</a>
JMS PLant Hire	<a href="http://www.jms-planthire.co.uk">www.jms-planthire.co.uk</a>
Rapid Platforms	<a href="http://www.rapidplatforms.co.uk">www.rapidplatforms.co.uk</a>
Smart Platform Rentals	<a href="http://www.smartplatforms.co.uk">www.smartplatforms.co.uk</a>
Universal Platforms	<a href="http://www.universalplatforms.com">www.universalplatforms.com</a>
Wilson Access	<a href="http://www.wilsonaccess.co.uk">www.wilsonaccess.co.uk</a>

## Special Lift & Transport Equipment

Arnold Schwerlast GmbH & Co.KG	<a href="http://www.arnold-schwerlast.de">www.arnold-schwerlast.de</a>
Collett A Sons, UK	<a href="http://www.collett.co.uk">www.collett.co.uk</a>
Wagenborg Nedlift, NL	<a href="http://www.wagenborg.com">www.wagenborg.com</a>

## Self-Propelled Modular Transporters

Collett & Sons, UK	<a href="http://www.collett.co.uk">www.collett.co.uk</a>
Wagenborg Nedlift, NL	<a href="http://www.wagenborg.com">www.wagenborg.com</a>

## Telescopic Handler Manufacturers

Dieci Telehandlers Ltd	<a href="http://www.dieci-telehandlers.co.uk">www.dieci-telehandlers.co.uk</a>
Genie	<a href="http://www.genieindustries.com">www.genieindustries.com</a>
Haulotte	<a href="http://www.haulotte.com">www.haulotte.com</a>
JLG	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
Manitou	<a href="http://www.manitou.com">www.manitou.com</a>
Merlo	<a href="http://www.merlo.co.uk">www.merlo.co.uk</a>

## New & Used Telehandlers

Dieci Telehandlers	<a href="http://www.dieci.com">www.dieci.com</a>
Industrial Access	<a href="http://www.industrialaccess.ro">www.industrialaccess.ro</a>
Lisman	<a href="http://www.lisman.nl">www.lisman.nl</a>
Riwal	<a href="http://www.riwal.com/used">www.riwal.com/used</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>
VHS Vissers Heftruck Service	<a href="http://www.vhsbladel.nl">www.vhsbladel.nl</a>

## Telehandler Rental

GT Lifting Solutions	<a href="http://www.gtliftingltd.co.uk">www.gtliftingltd.co.uk</a>
JMS PLant Hire	<a href="http://www.jms-planthire.co.uk">www.jms-planthire.co.uk</a>
Readyplant Ltd	<a href="http://www.readyplant.co.uk">www.readyplant.co.uk</a>

## Site Safety Audits

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

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

## Crane Manufacturers

Böcker Maschinenwerke	<a href="http://www.boecker-group.com">www.boecker-group.com</a>
Galizia	<a href="http://www.galiziagrupo.com">www.galiziagrupo.com</a>
Grove	<a href="http://www.grovetworldwide.com">www.grovetworldwide.com</a>
HCME	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
(Hitachi-Sumitomo)	
Jekko Minicrane	<a href="http://www.jekko.it">www.jekko.it</a>
JMG	<a href="http://www.jmgcranes.com">www.jmgcranes.com</a>
Kobelco	<a href="http://www.kobelco-cranes.com">www.kobelco-cranes.com</a>
Liebherr	<a href="http://www.Liebherr.com">www.Liebherr.com</a>



Linden Comansa	<a href="http://www.comansa.com">www.comansa.com</a>
Maeda	<a href="http://www.maedaminicran.es.co.uk">www.maedaminicran.es.co.uk</a>
Manitowoc	<a href="http://www.manitowoccranes.com">www.manitowoccranes.com</a>
Mantis Cranes	<a href="http://www.mantiscranes.ie">www.mantiscranes.ie</a>
Ormig	<a href="http://www.ormig.co.uk">www.ormig.co.uk</a>
Potain	<a href="http://www.manitowoccranes.com">www.manitowoccranes.com</a>
Sany	<a href="http://www.sany.com.cn">www.sany.com.cn</a>
Sennebogen	<a href="http://www.sennebogen.com">www.sennebogen.com</a>
Spierings	<a href="http://www.spieringskranen.nl">www.spieringskranen.nl</a>
Tadano Faun	<a href="http://www.tadanofaun.de">www.tadanofaun.de</a>
Terex-Demag	<a href="http://www.terex-cranes.com">www.terex-cranes.com</a>
Unic Cranes	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
Valla	<a href="http://www.valla-cranes.co.uk">www.valla-cranes.co.uk</a>
Wolffkran	<a href="http://www.wolffkran.de">www.wolffkran.de</a>
Zoomlion	<a href="http://www.zoomlioncranes.co.uk">www.zoomlioncranes.co.uk</a>

#### Lorry/Truck Loader Cranes

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
Effer	<a href="http://www.effer.it">www.effer.it</a>
Hiab	<a href="http://www.hiab.com">www.hiab.com</a>
Palfinger	<a href="http://www.palfinger.com">www.palfinger.com</a>
PM Cranes	<a href="http://www.pm-group.eu">www.pm-group.eu</a>

#### New & Used Cranes

AGD Equipment	<a href="http://www.agd-equipment.co.uk">www.agd-equipment.co.uk</a>
Cranes4Cranes	<a href="http://www.cranes4Cranes.com">www.cranes4Cranes.com</a>
Cranes UK	<a href="http://www.cranesuk.net">www.cranesuk.net</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
E.H Hassells	<a href="http://www.hassells.com">www.hassells.com</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
IMC Cranes	<a href="http://www.imc-cranes.com">www.imc-cranes.com</a>
Jones-Iron Fairy	<a href="http://www.jonesironfairy.co.uk">www.jonesironfairy.co.uk</a>
Kobelco	<a href="http://www.kobelco-cranes.com">www.kobelco-cranes.com</a>
Leader	<a href="http://www.leader-piatt.it">www.leader-piatt.it</a>
Maeda	<a href="http://www.maedaminicranes.co.uk">www.maedaminicranes.co.uk</a>
Mantis Cranes	<a href="http://www.mantiscranes.co.uk">www.mantiscranes.co.uk</a>
M. Stemick	<a href="http://www.stemick-krane.de">www.stemick-krane.de</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
P.V. Adrighem BV	<a href="http://www.adrighem.com">www.adrighem.com</a>
Rivertek Services	<a href="http://www.rivertekservices.com">www.rivertekservices.com</a>
Terex Demag	<a href="http://www.terex-cranes.com">www.terex-cranes.com</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>

#### Heavy Lifting Equipment

Lifting Gear UK	<a href="http://www.lifting-equipment.co.uk">www.lifting-equipment.co.uk</a>
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#### Furniture Hoists

The Furniture Hoist Co	<a href="http://www.furniturehoists.co.uk">www.furniturehoists.co.uk</a>
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#### Crane Hire

AB2000	<a href="http://www.ab2000.co.uk">www.ab2000.co.uk</a>
Ainscough	<a href="http://www.ainscough.co.uk">www.ainscough.co.uk</a>
Berry Cranes	<a href="http://www.berrycranes.co.uk">www.berrycranes.co.uk</a>
Bob Francis Crane Hire	<a href="http://www.bobfranciscranehire.co.uk">www.bobfranciscranehire.co.uk</a>
Cork Crane Hire (Liverpool)	<a href="http://www.corkcranehire.com">www.corkcranehire.com</a>
Crane Hire Ltd	<a href="http://www.cranehireltd.com">www.cranehireltd.com</a>
City Lifting	<a href="http://www.citylifting.co.uk">www.citylifting.co.uk</a>
Emerson Cranes	<a href="http://www.emersoncranes.co.uk">www.emersoncranes.co.uk</a>
John Sutch Cranes	<a href="http://www.johnsutchcranes.co.uk">www.johnsutchcranes.co.uk</a>
King Lifting	<a href="http://www.kinglifting.co.uk">www.kinglifting.co.uk</a>
Ladybird tower crane hire	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>
Mantis Cranes	<a href="http://www.mantiscranes.co.uk">www.mantiscranes.co.uk</a>
McNally crane hire	<a href="http://www.cranehire-ireland.com">www.cranehire-ireland.com</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
Port Services	<a href="http://www.portservices.co.uk">www.portservices.co.uk</a>
Heavy Crane division	

#### Mini Crane Hire

Easi Up Lifts	<a href="http://www.easiuplifts.com">www.easiuplifts.com</a>
Easy Reach Scotland	<a href="http://www.easyreachscotland.co.uk">www.easyreachscotland.co.uk</a>
Emerson Cranes	<a href="http://www.emersoncranes.co.uk">www.emersoncranes.co.uk</a>
GGR	<a href="http://www.unic-cranes.co.uk">www.unic-cranes.co.uk</a>
Hire Maeda	<a href="http://www.maedaminicranes.co.uk">www.maedaminicranes.co.uk</a>
JT Mini Crane Hire	<a href="http://www.jtminicranes.co.uk">www.jtminicranes.co.uk</a>
Lift Limited	<a href="http://www.liftminicranehire.co.uk">www.liftminicranehire.co.uk</a>
NRC	<a href="http://www.nrcplant.co.uk">www.nrcplant.co.uk</a>
Hird	<a href="http://www.hird.co.uk">www.hird.co.uk</a>
Tracked Access	<a href="http://www.trackedaccess.com">www.trackedaccess.com</a>

#### Self Erecting Tower Cranes

City Lifting	<a href="http://www.citylifting.co.uk">www.citylifting.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
John Sutch Cranes	<a href="http://www.johnsutchcranes.co.uk">www.johnsutchcranes.co.uk</a>
King Lifting	<a href="http://www.kinglifting.co.uk">www.kinglifting.co.uk</a>
Ladybird tower	<a href="http://www.ladybirdcranehire.co.uk">www.ladybirdcranehire.co.uk</a>

#### crane hire

London Tower Cranes	<a href="http://www.londontowercranes.co.uk">www.londontowercranes.co.uk</a>
Mantis Cranes	<a href="http://www.mantiscranes.co.uk">www.mantiscranes.co.uk</a>

#### Tower Cranes

Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
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#### Heavy Lift Management

DWLS	<a href="http://www.dwls.co.uk">www.dwls.co.uk</a>
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#### Heavy Lift Planning & Risk Analysis

DWLS	<a href="http://www.dwls.com">www.dwls.com</a>
HLC Consulting	<a href="http://www.hliconsulting.com">www.hliconsulting.com</a>

#### Ancillary Equipment

TMC lifting supplies	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
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#### Auction Houses

Ritchie Brothers	<a href="http://www.rbaction.com">www.rbaction.com</a>
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#### Battery Suppliers & Manufacturers

Shield Batteries	<a href="http://www.shieldbatteries.co.uk">www.shieldbatteries.co.uk</a>
Trojan Battery	<a href="http://www.trojanbattery.com">www.trojanbattery.com</a>
Platinum Batteries (Europe) Ltd	<a href="http://www.platinumbatteries.co.uk">www.platinumbatteries.co.uk</a>

#### Load Monitoring Systems

Force Logic UK Ltd	<a href="http://www.force-logic.co.uk">www.force-logic.co.uk</a>
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#### Control Systems

MOBA Automation	<a href="http://www.moba.de">www.moba.de</a>
Intercontrol	<a href="http://www.intercontrol.de">www.intercontrol.de</a>

#### Generator Sales & Rental

Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
JMS PLant Hire	<a href="http://www.jms-plantire.co.uk">www.jms-plantire.co.uk</a>

#### Insurance

Specialist Insurance	<a href="http://www.cover1.com">www.cover1.com</a>
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#### Online Technical Help

Crane Tools	<a href="http://www.cranetools.com">www.cranetools.com</a>
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#### Outrigger Pads, Mats & Roadways

Alimats	<a href="http://www.craneriggermats.co.uk">www.craneriggermats.co.uk</a>
Eco power pads	<a href="http://www.outriggerpads.co.uk">www.outriggerpads.co.uk</a>
GreenTek	<a href="http://www.greensward.co.uk">www.greensward.co.uk</a>
GTP Europe	<a href="http://www.gtp-europe.com">www.gtp-europe.com</a>
KO-Mats GmbH	<a href="http://www.ko-mats.com">www.ko-mats.com</a>
Marwood	<a href="http://www.marwoodgroup.co.uk">www.marwoodgroup.co.uk</a>
Mat & Timber Services	<a href="http://www.sarumhardwood.co.uk">www.sarumhardwood.co.uk</a>
Nylacast	<a href="http://www.nylacast.com">www.nylacast.com</a>
Timbermat	<a href="http://www.timbermat.co.uk">www.timbermat.co.uk</a>
TMC lifting supplies	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
Universal Crane Mats	<a href="http://www.universal-crane-mats.com">www.universal-crane-mats.com</a>

#### Parts & Service Suppliers

Aerial & Handling Services	<a href="http://www.aerialandhandlingservices.com">www.aerialandhandlingservices.com</a>
Alfa Access Services	<a href="http://www.alfa-access-services.com">www.alfa-access-services.com</a>
Caunton - Access	<a href="http://www.caunton-access.com">www.caunton-access.com</a>
Chaintech (UK)	<a href="http://www.chaintec.co.uk">www.chaintec.co.uk</a>
Crowland Cranes	<a href="http://www.crowlandcranes.co.uk">www.crowlandcranes.co.uk</a>
C-Tech Industries	<a href="http://www.ctech-ind.com">www.ctech-ind.com</a>
Davis Access Platforms	<a href="http://www.davisaccess.co.uk">www.davisaccess.co.uk</a>
Electrogen Int	<a href="http://www.electrogen.ie">www.electrogen.ie</a>
IAPS	<a href="http://www.iapsgroup.com">www.iapsgroup.com</a>
JLG	<a href="http://www.jlgeurope.com">www.jlgeurope.com</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
TVH - Group Thermote & Vanhalst	<a href="http://www.tvh.be">www.tvh.be</a>
Unified Parts	<a href="http://www.unifiedparts.com">www.unifiedparts.com</a>
Vertimac	<a href="http://www.vertimac.com">www.vertimac.com</a>

#### Innovations

Aerial & Handling Services Ltd	<a href="http://www.aerialandhandlingservices.com">www.aerialandhandlingservices.com</a>
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#### Recruitment

Vertikal.Net	<a href="http://www.vertikal.net/en/recruitment">www.vertikal.net/en/recruitment</a>
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#### Rental Management Software

Higher Concept Software	<a href="http://www.higherconcept.co.uk">www.higherconcept.co.uk</a>
Inspire	<a href="http://www.inspire.com">www.inspire.com</a>
MCS Rental Software	<a href="http://www.mcs.co.uk">www.mcs.co.uk</a>

#### Replacement Filters

Plant Filters	<a href="http://www.plantfilters.co.uk">www.plantfilters.co.uk</a>
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#### Safety Equipment

AGS	<a href="http://www.ags-btp.fr">www.ags-btp.fr</a>
Airtek equipment	<a href="http://www.airteksafety.com">www.airteksafety.com</a>
Heaton Trestle	<a href="http://www.heatonproducts.co.uk">www.heatonproducts.co.uk</a>
Handrail System	
Heaton	<a href="http://www.heatonproducts.co.uk">www.heatonproducts.co.uk</a>
Scaffold Towers	
Load Systems UK Ltd	<a href="http://www.loadsystems.com">www.loadsystems.com</a>
Marwood	<a href="http://www.marwoodgroup.co.uk">www.marwoodgroup.co.uk</a>
SMIE	<a href="http://www.smie.com">www.smie.com</a>

#### Software

Higher Concept	<a href="http://www.higherconcept.co.uk">www.higherconcept.co.uk</a>
inspHire	<a href="http://www.inspire.com">www.inspire.com</a>
Matusch GmbH	<a href="http://www.matusch.de">www.matusch.de</a>
MCS Rental Software	<a href="http://www.mcs.co.uk">www.mcs.co.uk</a>

#### Structural Repairs

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

#### Training Associations & Networks

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

#### Training Centres & Trainers

Access Platforms Direct	<a href="http://www.accessplatformsdirect.co.uk">www.accessplatformsdirect.co.uk</a>
IAPS	<a href="http://www.iapsgroup.co.uk">www.iapsgroup.co.uk</a>
Active Safety Advanced	<a href="http://www.activerentals.co.uk">www.activerentals.co.uk</a>
Access Platforms UTN	<a href="http://www.utntraining.co.uk">www.utntraining.co.uk</a>
Ainscough	<a href="http://www.ainscoughtraining.co.uk">www.ainscoughtraining.co.uk</a>
AJ Access	<a href="http://www.accessplatforms.com">www.accessplatforms.com</a>
APL	<a href="http://www.apl-aerialplatforms.co.uk">www.apl-aerialplatforms.co.uk</a>
Approved Safety Training - Ca	<a href="http://www.approvedsafetytraining.com">www.approvedsafetytraining.com</a>
GT Access	<a href="http://www.gtaccess.co.uk">www.gtaccess.co.uk</a>
Lift-Manager	<a href="http://www.lift-manager.com">www.lift-manager.com</a>
LTC Training Services	<a href="http://www.ltctrainingservices.co.uk">www.ltctrainingservices.co.uk</a>
Nationwide Platforms	<a href="http://www.nationwideplatforms.co.uk/Training">www.nationwideplatforms.co.uk/Training</a>
Smart Platform Rentals	<a href="http://www.smartplatforms.com">www.smartplatforms.com</a>
Astra Access	<a href="http://www.astratraining.co.uk">www.astratraining.co.uk</a>

#### Safety Training

Atlas Cranes UK	<a href="http://www.atlasgmbh.com">www.atlasgmbh.com</a>
Avon Crane	<a href="http://www.avoncrane.co.uk">www.avoncrane.co.uk</a>
Brogan Group	<a href="http://www.brogangroup.com">www.brogangroup.com</a>
Davis Access	<a href="http://www.davisaccess.co.uk">www.davisaccess.co.uk</a>
Easi-UpLifts	<a href="http://www.easiuplifts.com">www.easiuplifts.com</a>
Emerson	<a href="http://www.emersontrainingservices.co.uk">www.emersontrainingservices.co.uk</a>

#### Training Services

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

#### Traffic Management Services

Sun Traffic Ltd	<a href="http://www.suntraffic.com">www.suntraffic.com</a>
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#### Wire Rope & Cable

Teufelberger Seil	<a href="http://www.teufelberger.com">www.teufelberger.com</a>
TMC Lifting	<a href="http://www.tmc-lifting.com">www.tmc-lifting.com</a>
Casar	<a href="http://www.casar.de">www.casar.de</a>

#### Winches & Hoists

Rotzler	<a href="http://www.rotzler.com">www.rotzler.com</a>
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#### Tyre suppliers

Mitas Tyres	<a href="http://www.mitas-tyres.com">www.mitas-tyres.com</a>
OTR Wheel Engineering - OTR Europe	<a href="http://www.otrwheel.com">www.otrwheel.com</a>

If your company is not listed sign up online or email [info@vertikal.net](mailto:info@vertikal.net) or call

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- Nationwide coverage

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available

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# Aerial lifts for sale



**MANLIFT HIRE LTD.**

Due to machine replacement we have the following machines for sale. All are in working order, certified and rent ready.

## Palazzani TSJ34P

Year: 2006



Low height on wheels. 116 hours very little use, perfect condition. Ready for work

Price: £44000

## 3 machines Isoli PN205

Year: 2006/7



2479 hours; 50,000 miles and 3062 hours; 62,000 miles; 2678 hours; 60000 miles; fully serviced, perfect condition. All ready for work.

Price: 2006 £23500 and 2007 £25500

## Farasin 1740 telehandler & accessories

Year: 2008



1163 hours, perfect condition. Ready for work.

Price: £26500

## Farasin 730 telehandler & accessories

Year: 2009



440 hours very little use, perfect condition. Fitted with extras. Ready for work.

Price: £25500

## New Lift Up Rack and Pinion passenger lift



Never used, 500 kg, 50 meters mast complete with mast sections, controls, mountings and ready for installation, no work hours.

Price: £9500

## Haulotte Compact 12



10 pieces, all ready for work.

Price: £3250 each

## Haulotte Compact 8



16 pieces, all ready for work.

Price: £2500 each

## Haulotte H25TPX

Year: 2006



6 pieces, all ready for work.

Price: £15500 each

## JLG M600J

Year: 2004



4 pieces, all ready for work.

Price: £16500 each

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V16975 - Haulotte Optimum 6 - 2008  
Electric - 6.35 Mtr. - 433 Hrs.  
€ 3.950



V15421 - JLG 2646ES - 2006  
Electric - 9.80 Mtr. - 180 Hrs.  
€ 6.500



V17229 - Genie GS3246 - 2000  
Electric - 11.75 Mtr. - 594 Hrs.  
€ 4.250



V16631 - GSL S131 E12 - 2000  
Electric - 15.20 Mtr. - / Hrs.  
€ 5.500



V16706 - Hollandlift A151EV - 1999  
Electric - 17.20 Mtr. - / Hrs.  
€ 7.500



V17081 - Genie GS3268RT - 2005  
Diesel 4x4 - 11.75 Mtr. - 1965 Hrs.  
€ 9.950



V17079 - JLG 3394RT - 2005  
Diesel 4x4 - 12.06 Mtr. - 2011 Hrs.  
€ 13.950



V17044 - Manitou 150TP - 2006  
Diesel 4x4x4 - 15 Mtr. - 1617 Hrs.  
€ 22.500



V17037 - Haulotte H18SXL - 2006  
Diesel 4x4 - 16 Mtr. - 1871 Hrs.  
€ 17.750



V17101 - Genie GS5390RT - 2007  
Diesel 4x4 - 18.15 Mtr. - 1026 Hrs.  
€ 25.500



V16428 - Manitou 105VJR2 - 2007  
Electric - 10.30 Mtr. - 724 Hrs.  
€ 9.500



V16663 - Genie Z25/8N - 1997  
Electric - 9.60 Mtr. - 784 Hrs.  
€ 4.250



V16767 - Genie Z30/20N - 2000  
Electric - 11.14 Mtr. - 795 Hrs.  
€ 9.950 - NEW WHEELS!



V16539 - JLG E300AJ - 1999  
Electric - 11.14 Mtr. - 1558 Hrs.  
€ 9.500



V16644 - Airo SG1000 - 2004  
Electric - 12 Mtr. - 1026 Hrs.  
€ 7.950



V16958 - JLG 450AJ - 2008  
Diesel 4x4 - 15.72 Mtr. - 1994 Hrs.  
€ 22.750



V17222 - Genie Z45/25RT - 2000  
Diesel 4x2 - 15.90 Mtr. - 4120 Hrs.  
€ 9.500



V16950 - Manitou 165ATJS - 2004  
Diesel 4x4 - 16.50 Mtr. - 3545 Hrs.  
€ 14.950



V16173 - Haulotte HA20PX - 2005  
Diesel 4x4x4 - 20.65 Mtr. - 3229 Hrs.  
€ 18.500



V16734 - JLG 800AJ - 2008  
Diesel 4x4 - 26.38 Mtr. - 1585 Hrs.  
€ 52.500



V12564 - Haulotte H14TX - 2002  
Diesel 4x4 - 14.07 Mtr. - 2961 Hrs.  
€ 7.500



V16619 - Grove MZ46 CXT - 1999  
Diesel 4x4x4 - 14.10 Mtr. - 5054 Hrs.  
€ 6.750



V17005 - Genie S45 - 2006  
Diesel 4x4 - 15.70 Mtr. - 2973 Hrs.  
€ 15.500



V16180 - Haulotte H23TPX - 2006  
Diesel 4x4 - 22.60 Mtr. - 3532 Hrs.  
€ 19.500



V16724 - Genie S125 - 2008  
Diesel 4x4x4 - 40.15 Mtr. - 1822 Hrs.  
€ 82.500



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**JLG 1350SJP**

2008 POA 



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**Omme 3000 RBD**

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**Manitou MT 1740**

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**Maeda MC 285 CRM - E**

2007 €40000 



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4WD

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2007 POA 



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**Skyjack 7135 RT**

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