

cranes & access

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April/May 2015 Vol.17 issue 3

Spider lifts

Lifting wind turbines

**Vertikal Days
preview and
show guide**

...New owners for Ainscough...Manitou unveils 12m Man'Go...Kubota telehandler prototype...

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On the cover:

German heavy transport manufacturer Scheuerle showed off its second generation Rotor Blade Adapter at Intermat which allows the trailer carrying the blade to negotiate tight corners and obstacles by raising and rotating it as needed.



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Slowly but surely, the tracked spider lift is becoming more of a mainstream rental product as rental companies and end users appreciate its 'jack of all trades' abilities. Of all the aerial work platforms, spider lifts can deal with almost



every type of ground conditions making them the 'go anywhere' platforms.

We take a look at recent developments as well as a few interesting applications.

Lifting wind turbines 27

In spite of the fact that the European wind energy industry installed more than double the capacity of new coal and gas combined last year there are some dark clouds on the horizon. Mark Darwin investigates and also talks in-depth with Declan Corrigan of wind turbine installation specialist Windhoist.



Vertikal Days
preview and
show guide 39

Vertikal Days 2015 is now just a couple of weeks away and promises to be the largest so far both in terms of the number and space taken by exhibitors. We include a full show preview guide with all the exhibitors, new products and essential show information.



IPAF Summit 67

This year's IPAF Summit was held in Washington DC close to the Pentagon, the second time it has been held in the USA since 2013. While the number of delegates attending was substantially down on last year's meetings in the UK, the event was well organised and the content of the presentations to a high standard. Cranes & Access reports.

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In the next C&A

The next issue of Cranes & Access - scheduled for mid-June - will be looking at Tower cranes, Trailer and SD lifts and Heavy transport as well as having reviews of Vertikal Days and Interimat shows. If you have any contributions or suggestions, please contact our editorial team.

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Dr . Seuss

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More characters needed

Whether you love or hate ex Top Gear presenter Jeremy Clarkson, you have to admit he was a character...and his departure from the globally popular show has upset most of the programme's viewers. The antics that resulted in him being fired

from the BBC were probably a step too far, but he was one of the very few people in his position and profession who would actually say something that sounded like it had not been edited and censored by the PC (Politically Correct) police.

This got me thinking. The cranes and access industry has always had its share of 'characters' but are they slowly disappearing? For me a character is someone who openly speaks their mind, often against the accepted way of thinking and is usually very controversial. They are individualists, possibly a little eccentric, happy to go their own way, and often known to live life to the extreme and sometimes to excess.

Those old enough to have worked through the 1960s, 70s, 80s and 90s will fondly remember a good number of larger than life characters who spoke their mind openly, had more than their fair share of failings, but were always highly successful at what they did, and were thus loved/tolerated/hated by those who had to manage or work with them and in some cases for them.

Unfortunately as with society in general, there is a growing pressure to avoid saying or doing anything that might offend anyone - even if it is the truth. The trend for companies - particularly the larger corporations - is not to employ such individuals and to carefully cull those that remain - probably for fear of possible disciplinary/employment law trouble in the future - and in some cases to ensure homogenous conformity. In fact it would seem that only professions such as designers, artists and musicians are now tolerated or saluted for being 'a bit off the wall'.

But what is life and business without such individuals? Nothing can change if everyone agrees - creativity and spontaneity are stifled and we will all end up being managed and run by automatons, too afraid to say what they really think - like being run by committees and we all know the result of management by committee...

Fortunately we do still have characters in this industry - both old and young. They make things happen because they will take a decision and get the job done. They question the establishment and push forward change. We need such people, these radical thinkers, these doers, who are not afraid to take risks and speak out when all around are silent, because without them, business (and television) is a much, much poorer place.

Mark Darwin

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

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The new Grove GMK5250L All Terrain crane.

New 250t Grove AT

Grove has launched a new single engine 250 tonne five axle All Terrain crane, which the company claims has the strongest reach and load chart in its class. The GMK5250L features a 70 metre, seven section main boom and a 12 to 21 metre hydraulic bi-fold swingaway which can offset from five to 50 degrees.

The swingaway can be extended further with two eight metre inserts for a total of 37 metres, giving a maximum tip height of 110 metres. An optional integrated heavy duty jib is also available.

Powered by a single Tier IV final/Euromot 4 engine, the crane features a new VIAB turbo clutch and integrated retarder which eliminates both fluid overheating and clutch burning, as well as providing up to 30 percent savings in fuel compared to its predecessor. Lighter than the GMK5220, it will be easier to move in countries with stricter axle loading requirements, such as the USA, Canada, Norway, Australia and Japan, while in countries where axle loadings can be higher, such as the UK, the crane is able to travel with up to 21 tonnes of counterweight. On site, it can be moved with its full 80 tonnes of counterweight in place. A self-rigging auxiliary hoist is available too, eliminating the need for an assist crane.

HTC ownership change

UK tower crane rental company HTC Plant, is in the process of being sold by its owner P.C. Harrington Holdings. Although final confirmation had not been received as we went to press, the sale to German tower crane manufacturer Wolffkran has been the subject of discussions for several weeks and follows the placing into administration of sister company P.C. Harrington Contractors. HTC Plant is the UK dealer for Wolffkran which already runs rental operations in a number of countries.

New owners for Ainscough

US-based Oaktree Capital Management has purchased UK-based Ainscough Crane Hire - including James Jack and Ainscough Wind Energy Services (AWES) - from Goldman Sachs and TPG.

No official announcement has been made and no financial details disclosed. However in an internal announcement, managing director Robin Richardson said: "Oaktree are very excited about our plans for the future and very keen to support us with our growth strategy."

Los Angeles based Oaktree has an office in London, but over 75 percent of its portfolio is located in North America.



Intermat... slow slow...quick quick...slow

We closed the magazine a day or so after Intermat, which benefited from fine weather and a surprising good attendance, partly from the fact that expectations were low among many exhibitors.

The common feeling was that the show was too long for the attendance levels. The first day was dead, with attendance picking up on Tuesday and proving very positive on Wednesday and Thursday. Sadly Friday began to slow, followed by a busy public day on Saturday. We will be publishing a full review in the next issue, in the meantime the following product launches were not covered in our pre-show guides to the event.

Not so big Astor

A surprise new product launch was found on the Big Astor/Genius stand, where the company unveiled a new aluminium push around scissor lift, with four metres working height - the Mak 1 People Lift.

The key feature is that it weighs just 94kg, boasts a 520mm closed platform height, is 790mm wide and 1.16 metres long with an overall stowed height of 1.6 metres. The guardrails can be removed in around five minutes, making it possible to lift into the back of car. The unit will be on display at Vertical Days.



The Genius Mak 1

Kubota telehandlers

A new product launch we almost missed, tucked away on Kubota's construction equipment stand, was the company's first tentative foot into the sub-compact telehandler market.

The THT4815 has a 4.8 metre maximum lift height and a capacity of up to 1,500kg. The unit on show was a prototype, with little information available. We do know though that it has a hydrostatic transmission, four wheel drive and four wheel three mode steering and currently weighs 2,950kg - a little on the heavy side so the plan is to reduce this so that it can be easily transported on a standard two axle equipment trailer.



Kubota's first telehandler the THT4815

Manitou Man'Go 12

Manitou unveiled its 'revolutionary' surprise new product at Intermat, revealing - as was almost inevitable - that the pre-launch game changing claims were slightly excessive.

The new machine, a 33ft Rough Terrain articulated boom lift, achieves its 11.9 metres working height with a short riser, linked to the two section telescopic boom - in a similar way to many larger telescopics - and a 1.5 metre jib with 130 degrees of articulation. Designed specifically with the rental industry in mind, the Man'Go is simple to operate and maintain, uses a chassis mounted Kubota diesel, and in a major departure for Manitou, uses hydraulic wheel motors rather than traditional drive axles. Outreach is around 6.5 metres and platform capacity 230kg including a platform rotator. The unit weighs 4,100kg, has an overall width of 1.8 metres, and an overall length of 5.5 metres or 4.5 metres with jib tucked under for transport.



The new Manitou Man'Go 12

So how does it stack up?

The Man'Go fits in between the Niftylift HR12 range and the JLG 340AJ or ATN Zebra 12.

As can be seen in the following chart, it offers a mid-range specification/performance, so while not leading the sector in any key area, if it is priced right it will appeal to Manitou customers and dealers, while possibly bringing in a few new ones.

| | Manitou Man'Go 12 | Niftylift HR12 4X4 | JLG 340 AJ | ATN Zebra 12 |
|--------------------------|-------------------|--------------------|---------------|---------------|
| Work height | 11.9m | 12.2m | 12.3m | 12.2m |
| Outreach | 6.5m | 6.1m | 6.6m | 8.5m |
| Platform capacity | 230kg | 200kg | 230kg | 230kg |
| Overall weight | 4,100kg | 3,330kg | 4,400kg | 5,150kg |
| Overall width | 1.8m | 1.6m | 1.93m | 1.94m |
| Articulated jib | Yes 1.5m/130° | No | Yes 1.3m/139° | Yes 1.5m/133° |
| Overall length | 5.5m/4.5m | 4.1m | 5.5m/3.98m | 6.05m/4.5m |
| Power | Diesel | Diesel/Bi-Energy | Diesel Hybrid | Diesel |
| Gradeability | 40% | 30% | 45% | 40% |

Major redesigns from Haulotte

A quick glance at the Haulotte stand and the only major really new product that jumped out was the all new Star 6 that looks like the UpRight/Snorkel TM12 and the clones from JLG and Skyjack. The new machine has a solid specification however with a full size platform covering every inch of the base, AC direct drive, a single multi-stage telescope cylinder and on board diagnostics. A stock picking version is also available.



The new Haulotte Star 6

While this model jumped out, the Star 10 mast boom and 20ft Optimum 8 compact slab scissor lift have also been thoroughly re-engineered, with rear wheel AC direct electric drive, new covers and many other new features, including easy access, on-board and remote diagnostics/ information readouts, all-new control stations and a new platform entrance grip step. The Star 10 mast boom also gains the ACTIV shield secondary guarding option, while the Optimum 8 gets a new 'smart counterweight' system.



The new Haulotte Optimum 8

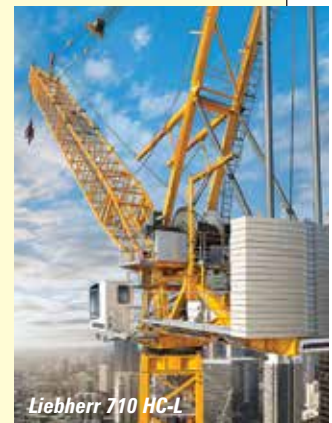


The new Haulotte Star 10

New cranes

Both Liebherr and Terex showed different new models than planned, with Liebherr filling the gap in its larger luffer jib tower crane range with the launch of the 700 metre tonne 710 HC-L.

Available in two lifting capacity versions - 50 tonnes and 64 tonnes - it has hook speeds up to 218 metres per minute. Liebherr also unveiled the 50 tonne capacity three axle LTC 1050-3.1 the successor to the LTC 1045. Terex launched a new flat-top tower crane - eight tonne capacity CTT 182-8 - which has a capacity of two tonnes at its maximum 65 metre jib length.



Liebherr 710 HC-L

100,000th JLG telehandler

In addition to unveiling its badged version of Hinowa's new 26 metre spider lift, the X26J Plus, JLG theatrically unveiled the 100,000th telehandler built since it acquired Gradall in 1999 - Skytrack and Lull followed in 2003. The anniversary model has been covered in 100,000 tiny JLG logos and will go on tour until October, when it will be auctioned for charity, with the buyer choosing the charity of his or her choice.



JLG's 100th telehandler



(L-R) Saleh Al-Huwaidi of Integrated Logistics with Manitowoc representative, Waleed Raouf and some of the new cranes.

10 Groves for Kuwait

Integrated Logistics, the largest crane rental company in Kuwait, has taken delivery of 10 new Grove 100 tonne GMK4100L All Terrain cranes, bringing the total number of Grove AT's taken over the past 18 months to 18. The other units being three 130 tonne GMK5130-2 and four 300 tonne GMK6300L delivered in 2013 and 2014.

The 10 new four axle 100 tonners are all equipped with seven section 60 metre main booms but no extensions. The cranes were delivered by local Grove distributor Equipment Company.

Established in 2005 the Integrated Logistics' fleet includes 500 cranes with mobiles from 25 to 1,200 tonnes, and crawler cranes from 50 to 1,600 tonnes. The company has more than 2,500 employees with operations spread across the region.

Studdert, Summit and Spain

IPAF has appointed Andy Studdert of US based NES Rentals as its new president with outgoing president Steve Couling having completed his two year term.

The ceremony took place at IPAF's AGM in Washington at the end of March. Nick Selley of AFI moves up to deputy president, while Brad Boehler of Skyjack becomes vice president. The IPAF Summit/AGM was topped off with the evening awards dinner. And the winners were.....

- **IPAF training Instructor of the year** - Hansen Ng of BS Technology, Singapore
- **IPAF Training Centre of the year** - A-Plant in the UK
- **Access Photograph of the year** - Jonathan Till of GT Access in the UK
- **Low Level Access product of the year** - Faraone of Italy for the Elevah 40 Move
- **Mast Climber/Hoist product of the year** - Maber of Italy for the MB A 2000/150
- **Vehicle Mounted product of the year** - Palfinger Platforms for the 48 metre P480
- **Self-Propelled lift product of the year** - Holland Lift for the 27 metre Hybrid HL275 H25 4WD/P/N
- **Outstanding Customer Service** - NES Rentals of the USA
- **Contribution to Safe Working At Height** - HSS Hire of the UK for fitting secondary guarding on all of its boom lifts.
- **Powered Access Pioneer** - Herz Equipment Rental China
- **Project of the year Award** - Scanclimber, Scan Rent and PMB Façade Technology of Malaysia.
- **Access rental company of the year** - Mateco of Germany

The Lifetime Achievement award went to Raymond E. Smith Jnr who founded, built up and then sold several aerial lift manufacturing companies, starting with Smiths Industries and then developed the Smith Mite-E-Lift range of push-around scissor lifts. He also holds numerous patents relating to aerial work platforms.

Next year's IPAF Summit and awards dinner will be held in Madrid, Spain.



(L-R) Deputy president Nick Selley, new president Andy Studdert and outgoing president Steve Couling

Big booms and scissors for Collé

Netherlands-based rental group Collé Rental & Sales has taken delivery of 10 new 180/185ft self-propelled boom lifts from Genie and JLG as well as several 100ft H.A.B. scissor lifts. The Genie SX-180s and JLG 1850 SJ booms will be available to rent from the company's locations in the Netherlands, Germany and Belgium. Collé says that its rental fleet now exceeds 5,000 units including more than 100 units over 125ft.

The H.A.B. order includes several 100ft, 1.39 metres wide S320-12 E4WDS electric 4x4 scissor lifts with indoor and outdoor certification, 600kg platform capacity and driveable at full height. One of the first of the new production has been delivered to BAC Hoogwerkers. H.A.B ran into financial difficulties a year ago and put the main business into bankruptcy, while hiving off the intellectual property into a separate business just beforehand. The company has now re-started production of some products including big scissors, tracked boom lifts and electric special scissor lifts.



Five of the new Genie SX180 and three of the new JLG 185SJ ready for rent



The 100ft H.A.B S320-12 E4WDS sold to BAC Hoogwerkers

Grove GHC launch

Manitowoc launched the new Sennebogen-built GHC series of telescopic crawler cranes to dealers and customers at an event at its Shady Grove factory plant.

All three models - the 50 tonne GHC55, 70 tonne GHC75 and 120 tonne GHC130 - were on show which was also attended by Sennebogen staff. Optional equipment includes a pole claw, auger and working platforms. All three cranes have load charts for working on slopes of up to four degrees.



The new cranes were unveiled inside the Shady Grove R&D building

10 years to prosecute

The HSE has delayed prosecution for the 2006 fatal Battersea, London, tower crane collapse due to lack of Crown Court capacity.

The case involving Falcon Crane Hire Ltd and Doug Genge for alleged failings with maintenance and overloading has been scheduled for September 2016. Crane operator Jonathon Cloke and local resident Michael Alexa were both killed in the incident after the crane's slew ring gave way, causing it to fall into the site and street below.

Terex launches new generation reach stackers

Terex Port Solutions has launched the Liftace 5-31 reach stacker, the first of its new generation lift trucks. Four models of the new Terex Stackace empty container handler will follow in the spring.

With a wheelbase of 6,200mm the Liftace 5-31 can stack up to five high-cube containers in the first row. In addition to the Liftace-typical 45 tonnes in the first row, the maximum load capacity is 31 tonnes in the second and 15 tonnes in the third row.

Terex Port Solutions (TPS) has launched the Liftace 5-31 reach stacker, the first of its new generation lift trucks.





Two Falcon spider lifts scheduled for delivery at Salalah and Muscat International airports

Five Falcons for Oman

The Salalah and Muscat International airports in Oman have taken delivery of five TCA Falcon spider lifts with working heights of between 29 and 42 metres.

The lifts will assist with cleaning and maintenance work, making use of their low ground pressure and good up and over capabilities. Brian Falck Schmidt, TCA Lift sales manager, said: "The Oman government's initiative to develop tourism necessitated the expansion and improvement of the airport facilities. In partnership with our local partners we developed a plan to support this need."



Datem's new Potain MCT 205 flat top tower crane installed on the Botanika Nature Residences development

Datem goes topless

Philippine construction company Datem has taken delivery of the first Potain MCT 205 flat top tower crane in the country.

The new 10 tonne crane has been installed on the site of the Botanika Nature Residences development in Alabang, Muntinlupa City, where it will be used to lift formwork, rebar and precast concrete sections weighing up to five tonnes to heights of up to 59 metres. At its maximum jib length of 65 metre it can handle up to 1.75 tonnes.

IPAF publishes rental surveys



The International Powered Access Federation has released its 2015 Rental Market Reports. The report estimates a worldwide rental fleet of 1.12 million aerial lifts, with the US market growing 10 percent, Europe by one percent and China by 25 percent. The two reports - North America and Europe - are available to purchase now and will be fully reviewed in the next issue of Cranes & Access.

First SCX1000A-3 in Holland

Dutch engineering contractor Gebr. De Koning has taken delivery of the first 100 tonne Hitachi-Sumitomo SCX1000A-3 lattice boom crawler crane in the Netherlands.

The new crane can be rigged with up to 60 metres of main boom, or a combination of boom and 28 metre jib for a maximum system length of 79 metres. Powered by a stage IIIB complaint engine, it has been ordered with an additional winch and a wider skywalk on its main boom for enhanced safety and easier assembly. The crane will be used to carry out concrete, waterworks and foundation contracts.

Gebr. De Koning's new Hitachi-Sumitomo SCX1000A-3 crawler crane



The crane will be used to carry out concrete, waterworks and foundations

Gebr. De Koning managing director Leo van Dijk said: "We prefer to buy rather than rent our crawler cranes as they are used on most of our projects. We continue to choose Hitachi, because of the competitive price, high quality and overall reliability of the products."

Tadano to expand Mantis plant

Tadano is investing \$2.5 million to expand its Mantis crawler crane plant in Richlands, Virginia, adding at least 25 new jobs. Based in Franklin, Tennessee, Mantis apparently considered adding capacity at either of its two locations but chose Virginia because it offered a number of grants and other financial aid.

The announcement of the expansion was jointly made by Virginia's governor Terry McAuliffe and Tadano's chief operating officer Shiro Morita. "We are very excited about our Richlands plant expansion," said Morita. "We can hire more workers from local communities and we can have more suppliers and vendors locally, too."

Mantis Canes was launched in 1979 after the manufacturing company Spandek acquired the rights to the Turtle Telescopic cranes and introduced a nine and 11.9 tonne models. Spandek was acquired by Tadano from the Mitchell family in December 2008 and is gradually being integrated in to the business.



The Tadano Mantis plant in Richlands, Virginia

The crawler crane line now ranges from 27 to 120 tonnes.

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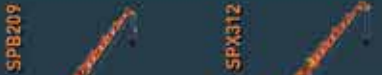
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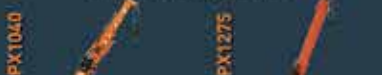
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Manitou celebrates 500,000th machine

Manitou has celebrated the production of its 500,000th machine with 80 limited edition MLT 735 telehandlers. The company developed its first Rough Terrain forklift in 1958 and now has revenues well above €1 billion.

It manufactures Manitou, Gehl, Mustand, Edge, Loc telehandlers and access platforms at eight production facilities around the world. The limited edition telehandlers are painted in a special '500,000th' livery with premium and elite packages included. First deliveries will take place this month and one will be on show at Vertical Days in May.

Manitou has celebrated the production of its 500,000th machine with 80 limited edition MLT 735 telehandlers.



Two Groves for Ellis

Gloucestershire, UK-based rental company Ellis Crane Hire took delivery of an 80 tonne Grove GMK4080-1 shortly after the the UK's first 60 tonne, 43 metre boom Grove GMK3060 delivered at the end of last year. The GMK4080-1 has a 51 metre boom and can carry all of its 19.3 tonne ballast on board within the UK's STGO rules allowing up to 16.5 tonne axle loadings. The company currently runs a fleet of nine cranes and recently took delivery of a 40 tonne Tadano ATF 40G-2 All Terrain crane.



(L-R) Andy Cahill of Manitowoc with Bill and Simon Ellis of Ellis Crane Hire

Hiresafe expands fleet

UK rental company Hiresafe Solutions has ordered a number of new large Holland Lift scissors and several new boom lifts.

The order is made up of 25 and a 32 metre Holland Lift diesel RT scissor lifts, a 135ft Genie Z135 and Genie Z45/25J 4WDs. The new machines will be supplied throughout this year by Holland Lift's UK distributor AJ Access in a deal worth more than £1 million. Hire Safe Solutions operates a fleet of specialist access equipment from locations in Newton-Le-Willows, Merseyside and Banbury, Oxfordshire.



Gerard Jennings (L) of Hiresafe with the first three units and Richard Onslow of AJ Access

140 Manitous for Morris Leslie

UK rental company Morris Leslie Plant Hire has ordered 140 Manitou MT telehandlers taking the total number of units ordered in the past 12 months to 250.

The new order includes a range of models from six metre compact units to 14 metre 4,000kg units. Telehandlers are now one of its principal product lines with a fleet of more than 700 units. In 2014 it purchased 400 new telehandlers with the order split between Manitou and JCB.



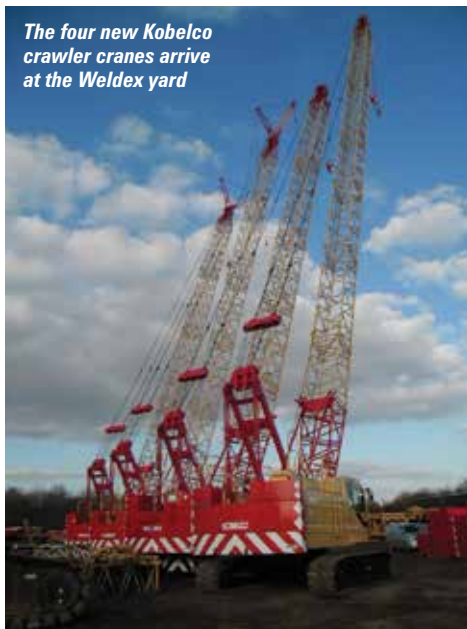
Morris Leslie has ordered 250 Manitou telehandlers in the past 12 months

Four Kobelco for Weldex

UK-based rental company Weldex has taken delivery of four new Kobelco CKE G series crawler cranes as part of its ongoing fleet modernisation programme.

The company purchased two 60 tonne CKE600G and two 80 tonne CKE800G cranes.

Weldex chief executive Dougie McGilvray said: "We have a fleet of 120 cranes and aim to replace them every eight years which is why we are working with Kobelco to update and modernise our fleet."



The four new Kobelco crawler cranes arrive at the Weldex yard

First UK Explorer 5500

Glasgow-based rental company Leggat Plant - Scotland's oldest crane hirer - formed 140 years ago - has taken delivery of the first 130 tonne Terex Explorer 5500 All Terrain crane in the UK.



Leggat Plant has taken delivery of a 130 tonne Terex Explorer 5500 All Terrain crane

The five axle 5500 features a 60 metre main boom with a 11 to 21 metre bi-fold swingaway extension, with up to 40 degrees offset. Leggat's owner Eddy Donaghy, said: "Our last Terex, a Challenger 3160 has proved so successful and enjoyed such a high utilisation rate, that we had no hesitation in choosing this latest model from Terex."

Riwal supplies Prangl

Dutch aerial lift and telehandler rental specialist Riwal and Austrian crane and access rental company Prangl have signed a five year framework agreement. The first transaction sees Prangl renting 79 JLG booms, scissor lifts and telehandlers from Riwal on a three year contract. Prangl will add the machines to its rental fleets in Hungary, Romania, Bulgaria, Slovakia and Czech Republic.



(L-r) Norty Turner of Riwal with Markus Reitermayer of Prangl and Guillaume Getas of Riwal



Teupen Leo24GT for Intermat

German spider lift manufacturer Teupen launched the 24 metre Leo24GT spider lift at Intermat.

Based on the 21 metre Leo21GT, it offers an additional three metres working height, thanks to a longer riser. The two models share most features and dimensions including 12 metres outreach and 250kg platform capacity.



Teupen's 21 metre Leo21GT alongside its new 24 metre Leo24GT spider lift

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Lavendon edges up

UK-based rental group Lavendon has issued a trading statement indicating a one percent rise in first quarter revenues. After a slow start the UK returned to growth in March. Strongest revenues were in the Middle East with revenues up 11 percent compared to 2014. In continental Europe sales were flat but France continues to improve, rising 13 percent, while Germany and Belgium slipped back.



11% lift for Manitou

Manitou has reported an 11 percent rise in first quarter revenues to €323.1 million, thanks to strong improvements in North America. Revenues in the Material Handling and Access division were up five percent to €199 million.



Tat Hong profit warning

Singapore-based Tat Hong has issued a profit warning for the fourth quarter of its fiscal year due to sluggish business conditions in Australia and substantial write-downs. The results in May will report a loss for the final quarter, although the year as a whole will remain profitable.



HSS boosts revenues while slipping into the red

UK rental company HSS achieved higher revenues - up more than 25 percent to €285 million - but last year's pre-tax profit of €2.6 million turned into a loss of €8.5 million due to exceptional costs and higher borrowing costs.



Haulotte improves 10%

Haulotte has reported a 10 percent hike in first quarter revenues to €98.2 million, although the majority of this was due to currency movements. Equipment sales improved by two percent, while rental revenues dipped by the same amount. It has also agreed a liquidity contract with Exane BNP Paribas, which will run from this month through until the end of the year.



GAP refinances

UK-based rental company GAP completed a five year, £220 million refinancing exercise to fund further growth. The company negotiated the competitive asset-based facility with a four bank syndicate led by RBS and including Barclays, Wells Fargo Capital Finance and PNC Business Credit.



Steady rise for Ruthmann

German truck mounted lift manufacturer Ruthmann has reported a record year, achieving revenues of €109 million, five percent higher than in 2013. Shipments of truck mounted lifts were stable in unit terms - at around 500 machines - while service revenues have continued to post solid gains, and now contribute €13.5 million to the overall revenues.



Ashtead acquires in New York

The Sunbelt Rentals operation of Ashtead group has acquired Wilson Rental Center of Corning, New York. The company offers a range of equipment including booms and scissors as well as trailer lifts and telehandlers.



Carlyle exits China Crane

Carlyle has sold its share of China Crane Investment Holdings, leaving Cargotec as the sole shareholder. China Crane had owned 18.75 percent of Jiangsu Rainbow Heavy Industries but with the sale of Carlyle's holding, this is reduced to Cargotec's 9.19 percent stake. The joint venture focuses on ship-to-shore cranes, rubber-tyred gantry cranes, rail mounted gantry cranes and marine specialty cranes.

Successful IPO for Dingli

Dingli has successfully launched its Initial Public Offering on the Shanghai Stock Exchange Main Board. The company offered 16.5 million shares at 29.56RMB (\$4.70) representing 25 percent of the company's equity raising RMB 487.7 million (\$78.7 million) and valuing the company at almost RMB 2 billion (\$315 million).



Higher revenues but bigger loss for Essex

US-based Essex Crane has posted its 2014 results, following a delay to review potential issues with past reporting. Total revenues for the year improved eight percent to \$103.4 million, while its pre-tax loss increased from \$14.7 million in 2013 to a loss of over \$18 million in 2014. In the fourth quarter however there were signs of improvement, with revenues growing over 25 percent to \$28.3 million, while the pre-tax loss was cut from \$5.1 million to \$4.5 million.



...As the company looks for alternatives

US-based Essex Rental is looking at 'strategic alternatives' for its Essex Crane Rental crawler crane business. The announcement suggests that the company is not currently planning to sell or change its Coast Crane mobile and tower crane sales and rental operation.

Hewden raises £135m

UK rental company Hewden has secured a new £135 million credit line from Bank of America and five other banks in the hope of increasing its presence in the industrial and engineering market sectors with additional products and services.



Rival doubles fleet investment

Dutch/International rental group Rival is planning to invest €80 million in its rental fleet this year - double last year's spend. The company will purchase more than 3,000 platforms and telehandlers from a range of suppliers, including JLG, Genie and Holland Lift.



IPAF up 9.5%

IPAF has published its annual report which shows revenues increasing 9.5 percent to £4.65 million while pre-tax profit - or rather 'surplus' - also increased 9.5 percent to £149,500. Membership subscriptions increased 12.5 percent to £427,368, while the main source of income - the issue of PAL cards - rose nine percent to £3.26 million. Non-UK revenues also increased and now make up 36.8 percent of the total.



Major orders for JCB

JCB has booked several large telehandler orders in the UK, this spring. The largest order, for nearly £9 million, came from Nixon Hire for 150 telehandlers, with lift heights ranging from seven to 17 metres. The order will go to work on a range of projects, including civil engineering works, major house building and warehousing schemes across the UK. Several units will also be sent to the company's depot in Glasgow which opened earlier this year.

The second order from Surrey-based B&T Plant Hire, is said to be worth around £5 million, and comprises 100 machines of a similar size range, but it also includes five 20 metre 540-200 units which the company says are proving popular with customers working in the hotel construction sector. Deliveries are scheduled throughout the rest of this year.



Nixon Hire has ordered 150 JCB telehandlers in an order worth almost £9 million

Xtreme Bigge

Bigge Crane has taken delivery of the 31.7 tonne/12 metre Xtreme XR7038 heavy duty telehandler launched last year at Conexpo. However before it shipped, the rental company loaned the machine to EC Source - an Ahern Rentals customer - which needed to unload a large metal power pole section weighing 24 tonnes at its yard close to the Xtreme Manufacturing facility. The pole is destined for the project to widen Interstate 15 in Nevada. The XR7038 carried out the lift quickly and easily before it was loaded for shipment to Bigge, which now has 20 Xtreme telehandlers in its fleet.



Bigge's latest Xtreme XR7038

Unloading the 24 tonne column was a breeze for the big telehandler



GAP opens access division

UK rental company GAP Hire Solutions has officially launched its new London Tools & Access division to supply small tools and low level access equipment to customers within the M25.

Two dedicated access depots will be located in Heathrow and Docklands areas and will offer alloy scaffold towers and low-level access platforms. The first five tool hire depots will open in Walthamstow, Wembley, Kentish Town, Heathrow and Docklands. A further five London locations will open during the rest of the year. The move follows GAP's recent £220 million refinancing which raised further funds for expansion.

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• **David Beckett** has been appointed general manager of US-based **SafeWorks** Spider division.



David Beckett

• **Tat Hong** has sold the premises of its Malaysian crane rental operation in Kuala Lumpur.

• Italian manufacturer **Bravisol** has released a video highlighting European accident statistics associated with low level falls.

• **Carlsson & Co** of Falkenberg, Sweden has taken delivery of an 18 metre **Denka** Lift DL18 telescopic trailer lift.

• Danish rental company **Del-Pin** has taken delivery of two Versalift VTX-240 truck mounted aerial lifts from **Time Denmark**.

• US loader crane manufacturer **Iowa Mold Tooling** has appointed **Holly McCoy-Nelson** as customer support manager.



Holly McCoy-Nelson

• Thailand's **Siam Cement Group** has taken delivery of a new 130t five axle **Grove** GMK5130-2 All Terrain crane.

• Uruguayan port operator **Montecon** has ordered the first **Liebherr** LHM 800 configured for container handling.

• Equipment sales company **NIMAC** has been appointed as **Potain** and **National Cranes** dealer for Nicaragua.

• A crane operator died after he was hit by a falling hook block which crashed into his cab in **Hong Kong**.

• The Chaika Sanatorium on Russia's Sakhalin island has purchased a **Palazzani** Ragno TZX 170 spider lift.

• UK access rental company **Star Platforms** has taken delivery of its first **Montracon** beavertail truck body.

• **BlueLine Rental** has acquired **Area Equipment**, a rental company based in Chesapeake, Virginia.

• UK tyre manufacturer **Cooper Tire & Rubber** has taken delivery of two **Valla** pick & carry cranes.

• Irish rental company **U Hire** has taken delivery of the first **Wacker Neuson** TH522 telehandler in Northern Ireland.

• **Erik Bengtsson**, executive vice president of **Cramo** Scandinavia and MD of **Cramo** Sweden, is to leave the company.



Erik Bengtsson

• **Mammoet** has won the heavy lift and heavy haul contract for the **Cameron LNG** project in Hackberry, Louisiana.

• **Liebherr Biberach** has completed the acquisition of the Shiro tower crane division from **Shiro group** in Hong Kong.

• US loader crane manufacturer **IMT** has added **Kahn Truck Equipment** to its distributor network.

• Austrian painting company **Glatzhofer** has taken delivery of a second **Easy Lift** spider lift.

• **Emerson Crane Hire** of the UK has received the first of two new **Liebherr** LTM1040-2.1 All Terrain cranes.

• UK rental company **Emsley Crane Hire** has taken delivery of its first **Tadano** All Terrain crane, an ATF 40G-2.

• **Magna Tyres** has appointed **Reifen Helm** to distribute its OTR and MTP tyre ranges in Northern Germany.

• US dealer/rental company **Associated Supply** (ASCO) broke ground last week on a new facility in Tyler Texas.

• **Stuart Smith**, founder and past owner of **Peterborough Crane Hire**, has died.

• **Grupo Vertikal**, the newly formed access rental company in Chile, has taken delivery of its first truck mounted lift, a reconditioned **Ruthmann** T470.

• **A-Plant** - the UK rental business of the **Ashtead Group** - has acquired temporary roadway company **TRAC**.

• The cranes in the **Energy** auction in Casper, Wyoming fetched \$35 million out of the overall \$54 million total.

• **Chris Wrigley** a director of UK-based rental company **Sky High Access** is to retire after 25 years of service.

• US wholesale rental company **Acme Lift** has appointed **Molly Frank** as director of strategic accounts.



Molly Frank

• UK rental company **Baldwins Crane Hire** has taken delivery of a **Liebherr** LG 1750 lattice boom truck crane.

• Three men died when a **mastclimbing** work platform collapsed in Raleigh, North Carolina.

• **Liebherr Africa** has opened a maritime crane sales and service centre in Durban, South Africa.

• UK-based **Platform Sales & Hire** has taken delivery of two heavy duty beavertail truck bodies from **Sterling GP**.

• The German association **PartnerLift** held its annual conference in Würzburg.

• UK-based crane hire company **Ellis Crane Hire** has taken delivery of a **Tadano** ATF 40G-2 All Terrain crane.

• German crane and transport company **Fangmann Industrie** has taken delivery of a **Liebherr** LTM 1130-5.1 All Terrain crane.

• Australian port operator **Patrick Stevedores** has ordered four **Liebherr** ship to shore cranes.

• **Haulotte** CEO **Alexander Saubot** has been elected president of UIMM, the French industrial employers association.



Alexander Saubot

• US-based wholesale rental company **US Latvian energy provider Sadales Tikls** has taken delivery of 15 **CMC** PLA 190 truck mounted lifts.

• Irish general rental company **Dromad Hire** has taken delivery of four aerial work platforms for its hire fleet.

• Falkirk-based **Horizon** has taken delivery of its first **Grove** crane - a 300 tonne GMK6300L All Terrain.

• The **Bangkok** government has ordered the first **Barin** underbridge inspection platform in Thailand - an AB 13/S.

• **Deutz** rang the opening bell for the trading session on the Frankfurt stock exchange to mark 115 years since it first listed.

• **Markets** has appointed **Joe Seckinger** as a regional account manager.



Joe Seckinger

• German railway company **Deutsche Bahn** has taken delivery of two **Versalift** VT-145-F truck mounted lifts.

• Scottish steelwork contractor **J&D Pierce** has taken delivery of a second **Grove** GMK4100L and **Grove** GMK3055.

• UK rental company **Mr Plant Hire** has moved into the telehandler market with two **JCB** 525-60 Hi-Viz units.

• **Skyjack** has completed the first of its planned 30 charitable support projects, as part of its 30th anniversary celebrations.

• UK-based crane rental company **Weldex** has added a **Liebherr** LTR 1060 telescopic crawler to its fleet.

• UK access rental group **AFI** has opened its own paint shop near its Liverpool depot.

• Lack of **Crown Court** capacity in London means there will be at least another year's delay before the prosecution into the fatal **Battersea** tower crane collapse in 2006.

• UK's **LTS Powered Access** has moved into the telehandler market with the purchase of several **Genies**.

• **Michelin** has launched two new sizes of **Bibload Hard Surface** tyre for telehandlers.

• UK-based rental company **Prolift Access** is the latest company to achieve **IPAF Rental+** accreditation.

• **Imer Access** has appointed **City Lift** as its distributor for Denmark, effective from May of this year.

• The Spider division of **SafeWorks** has appointed **Sherry Wade** as district sales representative in Denver.



Sherry Wade

• **Stirnemann** the Grove, Potain, and JLG distributor for Switzerland has celebrated its 100th anniversary.

• Netherlands-based **Collé Rental & Sales** has taken delivery of a number of **H.A.B** scissor lifts from a new form of the company.

• Europe's largest rental company **Loxam** has acquired a stake in the Brazilian rental equipment company **Degraus**.

• **Rothlehner Arbeitsbühnen** has appointed **Lissner** as the **Denka Lift** sales and service dealer for Denmark.

• **Platform Service & Repair** (PSR), IAPS' access service division, has taken delivery of 23 new service vans.

• Singapore-based crane rental company **Asiagroup Leasing** has ordered seven **Manitowoc** cranes for its fleet.

• **Peter Allison**, former export sales director at **Coles, Grove-Coles** and **Grove**, has died age 90.

• **Joe Dixon**, previously with **United Rentals** and **JLG**, has joined US/internet based rental company **BigRentz**.



Joe Dixon

• **Snorkel** and **Xtreme Manufacturing** are adding new staff in order to triple the combined North American sales team.

• **Bronto** will bring a training simulator to **Vertikal Days** next month to launch the **Bronto Operator Challenge** 2015.

• **Manitowoc** has won its patent infringement case against **Sany** blocking some of its cranes from the US market.

• **Hiab** has won an order from a Chinese rail equipment company for 60 telescopic loader cranes.

• **Linden Comansa** has taken 100% ownership of its Chinese joint venture - **Comansa JIE** - and changed its name to **Comansa Construction Machinery**.

• German crane and access rental company **Rolf Herbold** has taken delivery of a new 70 tonne **Liebherr** LTM 1070-4.2.

• **Riwal UK** has taken delivery of a **JLG** 1850SJ boom lift and a number of electric **Skyjack** scissor lifts.

• The city of **Karlsruhe**, Germany, has taken delivery of three **Palfinger** truck mounted platforms.



Andy Bray

• **Versalift UK** has expanded its sales team for the UK and Ireland and appointed **Andy Bray** as sales director.

• **ALL Erection and Crane Rental** has purchased 20 new **JLG** telehandlers and nine **Terex** cranes for its fleet.

• The UK's **Access Alliance** has launched a used equipment listing for members' equipment.

• UK-based rental company **Nixon Hire** has ordered 150 **JCB** telehandlers in a deal worth almost £9 million.

• Belgian rental company **Cuyppers Vorkliften** has taken delivery of the first **Terex** Liftace 5-31 reach stacker.

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Spiders spark into life

C&A

spider lifts

Slowly but surely, the tracked spider lift is becoming more of a mainstream rental product as rental companies and end users appreciate its 'jack of all trades' abilities.

Of all the aerial work platforms, spider lifts can deal with almost every type of ground condition with outriggers that can be set in different positions and with huge amounts of levelling ability, making them the 'go anywhere' platforms. And when fitted with non-marking tracks and using an electric power source, they are perfect for use indoors on most types of delicate flooring.

When compared with self-propelled boom lifts, spiders are much lighter and more compact for similar performance and with features such as variable track width are narrow enough to pass through single doorways yet stable enough for tracking around site or from delivery truck to work place. Air and water outlets in the basket are also available adding to their versatility.

Two issues ago we took an in-depth look at hybrid technology and in particular how it is being applied to scissor and boom lifts. Hybrid technology however is also becoming important in other access platforms, and most particularly, spider lifts. One of the early pioneers of multi power source drives for access equipment was Danish manufacturer Omme Lift. It has been building aerial lifts for 35 years and produced its first bi-energy model - the Ommelift 2500EBD, a trailer mounted boom with diesel and battery power - in 1994. This platform had a powerful battery pack, which allowed independent and environmentally friendly operation which was especially appreciated in residential areas. However it was found that in certain applications - such as tree work - the battery did not have enough capacity to work for the whole day - and this was more apparent when the temperatures were low. The solution was to combine battery and engine power creating, with the engine acting



Platform Basket 22:10



Omme's latest 42 metre working height 4200 RBDJ is - is its largest lift to date



Harry Lorentsen, managing director of OmmeLift with a hybrid drivetrain

like a generator and automatically recharging the battery pack.

Using battery power rather than plugging into a mains supply eliminates the well-known 'voltage drop' issue. However when operating on single phase AC even relatively short extension cords can create a reduction in voltage, which means the machine does not receive sufficient power to operate effectively. Battery power therefore provides better lift operation and without an inconvenient, potentially hazardous cable connection to the mains.

Intelligent charging allows the operator to plug into the mains and recharge the batteries while using the machine. It can also trickle charge when dormant, switching to full charge when the lift is in use. Omme's latest hybrid machine - 42

metre working height Ommelift 4200 RBDJ tracked spider - is its largest lift to date and weighs in at 6,900kg, while boasting a maximum outreach of 15.2 metres with a reduced platform capacity of 80kg - 13.5 metres with its maximum 230kg capacity. The hybrid power pack allows cordless operation both outdoors using the diesel engine, and indoors with its eight battery pack. Paramount Platforms of the UK, ordered one of the first units at its Amsterdam launch last June. Lee Kerr of Paramount Platforms said: "We wanted a versatile machine that performs equally well on rough terrain for phone mast work as it would in a shopping centre putting up Christmas lights. The hybrid power train is a very important criterion for our London work, along with lightweight and compact dimensions for its height."

Spider Vs boom?

Given the reasonably similar working height and outreach, we thought it might be interesting to briefly compare the main differences between a large spider lift and self-propelled articulated booms of the same working height. The most obvious differences are that the spider is far more compact and weighs about a third of the self-propelled. Coupled with its 'go-anywhere' tracked undercarriage means the spider can access work areas unreachable for the boom lift, particularly when the booms much heavier weight is taken into consideration. By virtue of its unique levelling ability, the spider lift can also set up and work on steep slopes that no other platform could get near.

How the 42m Ommelift compares with a similar-sized articulated boom - in this case a Genie ZX-135/70

| Type | Genie ZX-135/70 | Omm 4200 RBDJ |
|------------------------|----------------------|---------------|
| Max. working height | 43.15m | 42 m |
| Max. outreach | 18.3m riser extended | 15.2 m |
| Platform dimensions | 910mm x 2.44m | 800mm x 1.25m |
| Travel length | 12.93m | 8.9/8.3m |
| Overall height | 3.09m | 1.99m |
| Stowed width | 2.49m | 1.75/1.35m |
| Operational width | 5.03m | 5.33/4.42m |
| Max. platform capacity | 272kg | 230 kg |
| Overall weight | 20,502kg | 6,900kg |

Spider lifts are also leading the charge towards the adoption of high capacity, quick charge, long life lithium ion battery packs. Pioneered by Hinowa, the lithium power pack provides enough grunt and life for the spider lift to work all day on rough terrain - cutting trees or on high cycle indoor work - without the need for a back-up engine. However add an engine and the

versatility and autonomy can be truly exceptional.

Automatic lithium hybrid

Another spider lift manufacturer that has been an early adopter of lithium/hybrid is Italian company Bluelift which launched its lithium hybrid system at Bauma two years ago. The company says: "Eliminating any trailing leads is one thing, but offering uninterrupted and full power for drive and lift functions actually transforms the use of such equipment. There is still a little reluctance for people to embrace this technology as lithium batteries have had their share of bad press and some manufacturers' systems do not perform as well as they claim. But this technology is a game changer in the industry."

Platform Basket is another company that echoes this sentiment and suggests that customers check out the claims made by the manufacturers regarding the suggested recharging times and also the amp hour rating on the various battery packs.

The new Bluelift Hybrid line claims to be the first compact track mounted spider lift to combine a



Although the Genie articulated boom has more platform capacity and a bigger basket it weighs almost three times than that of the Ommelift

lithium battery with a combustion engine with automatic switching mechanism between battery and engine power supply. While dual power systems which combine a conventional battery system and combustion engine have been on the market for some self-propelled lifts and larger spiders, it has always been too much of a challenge to develop a battery system small enough to fit on sub 29 metre tracked spider lifts. Consequently, even with the use of lithium battery packs, the market has had to

choose between either battery power or combustion engine. Bluelift uses a 90 amp hour (200Amp/Hour on C22 model) lithium, iron-phosphate battery pack mounted directly to the machine which powers all functions in both travel and lift modes. The battery lasts between six to eight hours on one charge - claimed to be 20 percent better than the average - and can be recharged to 80 percent of full capacity within two hours when connected directly to mains power of either 110 or 240V.



Another early adopter of lithium/hybrid technology is Italian company Bluelift which launched its system at Bauma two years ago



The Bluelift lithium battery system is also detachable so it can be moved from one unit to another, offering fleet owners greater flexibility

In Hybrid Auto mode, the BMS (Bluelift Management System) system monitors and analyses the operation of the platform in real-time to help select the most power efficient usage at any time when working in an application that allows both combustion and battery modes. The operator simply selects Auto, leaving the BMS system to automatically decide which power source is the best for any given function with the view to reducing fuel consumption and decreasing pollution as much as possible. If the operator for example is lowering the main boom the BMS system automatically selects the electric power. If the operator raises the boom or drives the unit (where higher hydraulic pressure is required) the system automatically engages the combustion engine.

There is no battery memory effect and it can be charged as and when convenient with no ill-effects with the maintenance-free lithium battery lasting up to three times longer than traditional lead acid batteries.

In Hybrid Auto mode, the BMS (Bluelift Management System) system monitors and analyses

and it can be charged as and when convenient with no ill-effects with the maintenance-free lithium battery lasting up to three times longer than traditional lead acid batteries.

The addition of a small Honda diesel or petrol generator which kicks in automatically when the battery power drops below 20 percent means that the platform can be used for extended periods in areas where mains power is not available ie outdoors. The lithium battery system is also detachable so it can be moved from one unit to another, offering fleet owners greater flexibility. This means that depending on the battery/engine usage, a fleet owner can share one or two lithium battery systems between a larger fleet of standard units with only combustion engines.

Lithium innovator

The first manufacturer to offer lithium powered spiders was, as already mentioned, Italian manufacturer and spider lift market leader Hinowa, which launched its first, all-battery powered tracked Goldlift 14.70 at the end of 2009. This it followed with a 19 metre version about six months later when



Hinowa is continually adding new models – its latest is the 26 metre working height, 14 metre outreach Lightlift 26.14

the operation of the platform in real-time to help select the most power efficient usage at any time when working in an application that allows both combustion and battery modes. The operator simply selects Auto, leaving the BMS system to automatically decide which power source is the best for any given function with the view to reducing fuel consumption and decreasing pollution as much as possible. If the operator for example is lowering the main boom the BMS system automatically selects the electric power. If the operator raises the boom or drives the unit (where higher hydraulic pressure is required) the system automatically engages the combustion engine. There is no battery memory effect

other manufacturers - such as CTE and its 17 metre Traccess spider towards the end of 2010 - started to follow suit.

Hinowa is continually adding new models and its latest which will be seen at Intermat will be the 26 metre working height, 14 metre outreach Lightlift 26.14 - the company's largest platform to date and which is also available with a lithium battery pack. Hinowa says that the 230kg capacity 26.14 will be compact and light enough to transport as easily as its 23 metre Lightlift, and as with the smaller platform it will have a 72 volt, three phase, 3500W electric motor powered by a battery pack containing 15 or 22 LiFePO4 cells with battery management system,

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inverter, battery charger and DC-DC cooling system.

It is now more than four years since Hinowa signed its supply agreement with JLG to build and sell its spider lifts under the JLG brand name. While slow to get started, activity and interest from the wider JLG distribution network is now gathering pace. Its latest platform, also launched at Intermat is based on the new Hinowa 26 metre lithium powered lift and becomes the JLG X26J with 230kg unrestricted platform capacity.

More new manufacturers

Intermat was also the launch pad for two new manufacturers entering the market, with all-new spider lifts from established aerial lift manufacturers.

The first is from French mast and articulated boom and scissor manufacturer



CoMet is also entering the market with its first spider lift the 21.3 metre Leopard

ATN and the other from Italian truck and van mounted lift manufacturer CoMet.

At the point of going to press just before the show, ATN has not revealed too much about the new platform - the MG23 - other than it is a 23 metre tracked spider lift with a maximum platform capacity of 230kg. Overall length is 5.54 metres, width 1.88 metres and it boasts a gradeability of 32 percent. Like all of ATN's other aerial products the MG23 will be aimed at the rental market, will be simple to operate and easy to maintain.

Italian manufacturer CoMet is also entering the market with its first spider lift the 21.3 metre Leopard. The new machine has a classic dual sigma type riser and two section telescopic boom with short jib and pedestal mounted platform offering a maximum outreach of 10.8 metres. The platform capacity is higher than usual at 265kg and 60 degrees of platform rotation is standard.

New Platform Baskets

Another company offering lithium/hybrid power is Platform Basket, which will launch the first lithium-powered 33 metre Spider 33.15

Hybrid at Vertical Days in May. That particular unit has been purchased by Bradford-based Tracked Access Platforms. The Spider 33.15 has 15.5 metres of outreach and 17 metres up and over height. The company will also show its 18.90 Pro lithium and 13.80 Hybrid with lithium power.

Platform Basket offers lithium battery powered options up to 500Ah capacity as well as a selectable charging system input of between 10 to 23 amps and a charger with a capability of up to 100 amps output - all key elements to be considered when understanding recharging times. The battery used on the Spider 18.90 Pro-E lithium is about one third lighter than a lead acid battery of

the same capacity and even under severe use, the lithium batteries guarantee between 2,000 to 5,000 recharge cycles - up to five times more than conventional batteries. They are also maintenance free and there is only a small level of self-discharge - up to five percent - when not in use and by using single phase AC electric motors with inverter technology it efficiently manages battery use.

An LCD display enables the user to monitor real time information on battery state, discharge rate, charge rate, current use and cycles etc. allowing constant and easy monitoring of the batteries. When charging in low temperatures, there is even a cell heating system to improve efficiency. The intelligent battery charger system allows shorter charging times and use of the platform during the charging cycle, thus reducing down time. During use the machine will alert the operator by audible alarm when the batteries have discharged to 85 percent and will automatically shut down the system equipment before power is too low.

Platform Basket has also recently updated its 22.10 launching the new



The new ATN is a 23 metre tracked spider lift with 230kg maximum platform capacity



The 33 metre Platform Basket 33.10 shown as a prototype at Bauma last year



Northern Italy-based rental company Viviani has a wide range of Palazzani spiders including its largest the 52 metre XTJ 52/C.

22.10 EVO (Evolution) which is lighter (less than 3,000kg) and has 30kg more basket capacity at 230kg.

Palazzani is another Italian spider

manufacturer which has introduced lithium-ion power on its TZX Ragno Exo Execution series, resulting in a lower overall weight. The company has also improved the platform

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spider lifts

C&A

capacity. Discharging when not in use is said to be less than one percent a month and it does not lose its recharging capacity when partial recharges are repeated. The manufacturer says that the estimated life cycle of the LiFePO4 24V, 40 amp battery is more than 2,000 cycles with discharge to 80 percent. A full recharge takes four hours.

The CMC S19N achieves its maximum 8.8 metres outreach with an up and over height of 8.5 metres



24GT from 21GT

Teupen's latest spider lift is the 24 metre Leo 24GT - the bigger brother of the Leo 21GT launched last year. The Leo 24GT has an additional telescopic section in the lower boom/riser, adding three metres to its working height. Both models have an outreach of 12 metres and 250kg unrestricted platform capacity. The 24GT also has exactly the same overall transport dimensions at 1.99 metres high,

980mm wide and 6.40 metres long, which can be reduced to five metres when the detachable basket is removed.

Slightly heavier at 3,300kg, the Leo 24GT has the same height and width adjustable tracked chassis, as well as the detachable and 180 degree rotatable basket. Instead of the standard cable control set, both models now have an optional

Abitron (formerly Hetric) radio remote control.

The Leo 24GT also features a new basket design allowing the replacement of any of its constituent parts when damaged. The new lithium battery drive option is now in series production. Seen at the last Intermat on the Leo 21GT, the battery pack fits into the same housing as the combustion engine and consists of four Lithium-ion cells which supply the 48 volt system,



Teupen's latest spider lift is the 24 metre Leo 24GT - the bigger brother of the Leo 21GT launched last year

with 120Ah of capacity. Charging the pack fully is said to take two and a quarter hours.

Rapid spider expansion

Italian manufacturer CMC has rapidly expanded its range of spiders over the past few years and now has six models, ranging from 15 metres to the six-wheeled 41 metre, 19 metre outreach S41. Its latest model is the 18.8 metre CMC S19N (Narrow) which shares the same structural configuration, control system and componentry as the 14.9 metre S15. It will sit alongside the existing S19 model - now renamed the S19HD - which only has working height and control system in common.

The new model features a two section telescopic boom with articulating jib, giving an outreach of 8.8 metres and an up and over height of 8.5 metres. Maximum platform capacity is 230kg but this is reduced to 150kg to achieve maximum outreach.

Overall stowed dimensions are 4.48 metres long with basket removed, under two metres high and 780mm wide - the original S19HD is 930mm wide. The extended outrigger footprint is 2.8 by 3.58 metres long and it weighs 2,500kg. Power options include a Kubota Z482 diesel or Honda petrol engine with AC motor or a Lithium-ion pack. The company has also said that a hybrid diesel/electric system should be available shortly. Also new is

the 25.3 metre working height S25 and 14 metre outreach. Weighing 3,800kg the unit is 880mm wide by 5.95 metres long.

Conclusion

What is apparent at the moment is the healthy state of affairs for the spider lift sector which has attracted several new manufacturers.

As more customers realise the benefits, the demand is growing for machines that can work both indoors and outdoors. While slow to take off, the availability of the lithium battery pack has blossomed enormously over the past year and is now being offered by almost every manufacturer with hybrid power also growing strongly. Most of the recently introduced models are in the mid-range sizes - say 19 to 25 metres - with very few over 30 metres. Demand for the very large spiders around 45 metres and above, remains a niche sector dominated by Danish manufacturer TCA. Most machines of this size are purchased for specific end user applications, such as working in high atriums etc... However some specialist rental companies - such as Irish company Easi-Uplifts - are offering them for short term rental. For day to day rental, most companies and users will stay with machines in the 15 to 25 metre range, which would appear to cover most applications, and over the next year or two, will probably be mostly powered by lithium or hybrid technology.

First Lithium-ion Hinowa for Avon Access

UK specialist rental company Avon Access of Bristol, has expanded its spider lift fleet, with its first lithium-ion powered machine an Hinowa Lightlift 20.10 Lithium, one of a number of Hinowa Performance IIS machines.

Lee Roberts, Avon's founder and managing director, said: "We do an increasing amount of internal

and external work for abbeys and churches. These customers really appreciate the benefits of the silent, clean battery power provided by the Hinowa Lithium unit. It has similar power and speeds to the regular diesel machines in our fleet, and offers five hours of continuous working before the batteries need recharging, so we operate it with complete confidence regardless

of the job." The machine has an unrestricted platform capacity, of 230kg, and up to 9.7 metres of outreach. The dual sigma riser provides a perfectly parallel lift, ideal for working on walls, while its 800mm overall width and stowed height of less than two metres, allow it to pass through narrow doorways. The easy-set outriggers include single button self-levelling.



Avon Access has added its first lithium-ion powered machine

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A Canterbury tale

Conservationists recently inspected stonework and stained glass at Canterbury Cathedral in the UK - now part of a UNESCO World Heritage Site - with a 42 metre Omme Lift tracked spider lift. The inspection and survey of the cathedral were required prior to the proposed conservation to the Nave roof, stained glass windows and West Towers, together with stonemasonry to the upper Nave buttresses.

The spider was repositioned outside to inspect stonework on the West Towers, requiring the machine's full 42 metres



The project - funded by a grant from the Heritage Lottery Fund (HLF) along with support from private individuals, charitable trusts and foundations - is part of The Canterbury Journey project which aims to transform the accessibility and sustainability of the cathedral. The Ommelift 4200 RBDJ, allowed the cathedral's expert team to easily

access the seldom-seen 25 metre high interior vaulting of the Nave, before repositioning the machine outside to inspect stonework on the West Towers, requiring the machine's full 42 metres.

The non-marking tracks spread the machine's 6,805kg weight, reducing ground pressure, avoiding damage to the Nave floor. The tracks also helped the machine work comfortably outdoors. The 4200 RBDJ has 15.2 metres outreach and 230kg platform capacity.

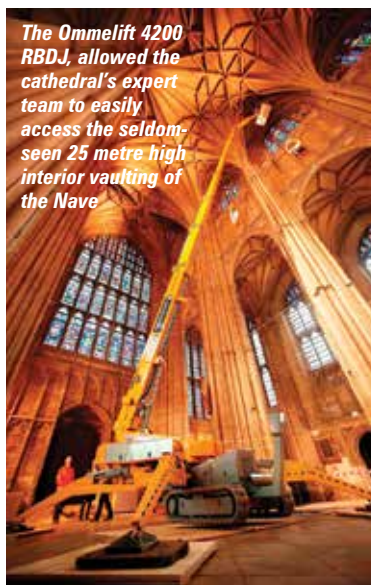
Heather Newton, the head of Stone Conservation at Canterbury Cathedral, said: "This particular lift was invaluable in facilitating a survey of the nave vault and the exterior fabric of the western towers. It enabled the Cathedral's Surveyor to assess the condition of the stonework and more accurately scope the work for the 'Canterbury Journey' HLF projects."

Lee Kerr of Paramount Platforms, which supplied the spider lift, said: "The cathedral required a machine that could pass through quite a



The cathedral required a machine that could pass through quite a narrow doorway, work inside and outdoors, had low ground pressure and yet could reach heights of more than 40 metres

The Ommelift 4200 RBDJ, allowed the cathedral's expert team to easily access the seldom-seen 25 metre high interior vaulting of the Nave



The non-marking tracks spread the machine's 6,805kg weight, reducing ground pressure, avoiding damage to the Nave floor

narrow doorway, work inside and outdoors, had low ground pressure and yet could reach heights of more than 40 metres. The Ommelift 4200 allowed the entire inspection to be completed within three days."

Paramount was established in

Chelmsford, Essex in 2014 with a fleet of spider and truck mounted lifts. The 4200 - the first in the UK - was purchased from Omme distributor Access Platform Sales (APS).

Four 32m Falcons in Bangkok airport

Thailand's Bangkok International Airport - formally known as Suvarnabhumi Airport - has taken delivery of four, 32 metre Falcon FS320Z spider lifts. The diesel/electric FS320Z offers up to 15 metres of outreach with its 200kg maximum platform capacity - 16 metres with 100kg - with an up and over height of up to 10 metres.

The new spider lifts will be used to maintain and clean the airport's glass facades both inside and out.

Brian Falck Schmidt, sales manager at TCA Lift, said: "We are very proud, once again, to be the preferred supplier of Airport of Thailand. 10 years ago we won a contract to deliver 10 Falcon spiders to the same customer and all are still

working at the airport. Being selected again after 10 years using our equipment is the best reference we can get."

New Bangkok International Airport was opened in 2006, and is one of the biggest airport terminals in the world. The airport also has the world's tallest free-standing control tower at 132.2 metres.

The new FS320Z spider lifts will be used to maintain and clean the airport's glass facades both inside and out.



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Blowing in the wind

C&a lifting wind turbines

In spite of the fact that the European wind energy industry installed more than double the capacity of new coal and gas combined capacity last year - a total of 11,791MW compared to 3,305MW and 2,338MW respectively - there are some dark clouds on the horizon. Mark Darwin investigates.



The aesthetically unhappy anti-wind turbine lobby is growing in both Europe and parts of North America, this combined with reductions in wind energy tariffs threaten the long-term future of new onshore wind installations.

In the UK - currently Europe's second largest market in terms of new installations - reductions in the Department of Energy & Climate Change strike prices for renewable technologies under the Contracts for Difference (CfD) regime, due to come on stream in 2017 is providing a major financial incentive to install new capacity sooner rather than later. Because of these factors, the wind sector in both the UK and the rest of Europe, is set for a very busy period over the next two years, however what happens after that remains to be seen.

In the UK the CfD is key in the Electricity Market Reform programme which is set to deliver £110 billion of capital investment up to 2023 to replace the country's aging energy infrastructure. CfDs are long-term contracts which are intended to provide stable and predictable incentives for companies to invest in low-carbon generation. This is done by paying a variable top-up between the market price and an estimate of

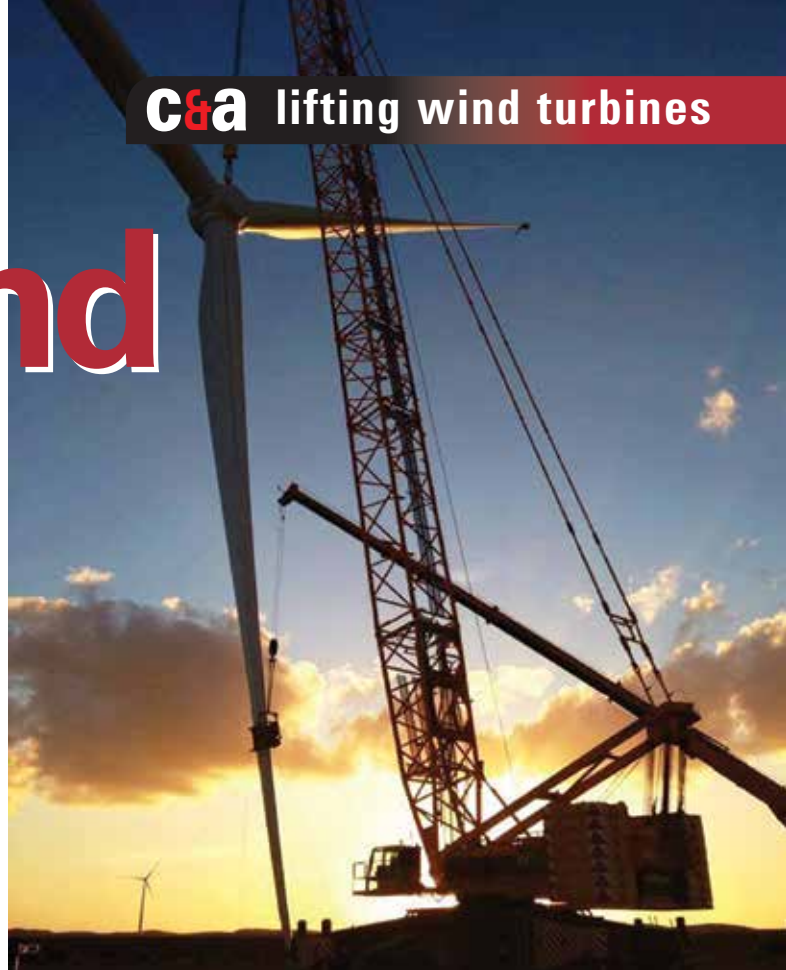
the long term price that is needed to bring forward investment in a given technology, known as the 'strike price'. As well as reducing the cost of financing new projects, the CfD regime is intended to deliver value for money for consumers by encouraging competition between low carbon technologies.

Unfortunately for onshore wind, the strike prices look set to encourage investment in renewable technologies with higher costs, such as offshore wind and tidal, rather onshore wind and solar. Strike prices for onshore wind have been reduced to £95 per MWh, with a further £5 cut in 2017. In comparison, large solar strike prices have reduced to £120 per MWh, with a further £10 cut in 2017. At the same time offshore wind has seen a rise in the strike price to £155 this year.

With a significant and rising proportion of UK gas derived from Russia/Ukraine, opposition to renewable energy may be short-sighted. The last time Russia played power politics with gas in 2009, prices jumped by 17 percent, and with UK imports expected to account for around 70 percent of supply by 2020, the risks are clear. In the short term, the onshore wind sector in the UK and Ireland looks set to be very busy in spite of the anti-wind lobby.

Figure it out

In 2012 Europe's installed wind capacity reached 106GW - equivalent to the total electricity consumption of Sweden, Ireland, Slovenia and Slovakia combined. Driven by the EU's binding target to obtain 20 percent of its power from renewables, with a target of 130GW by the end of 2020 (European Wind Energy Association - EWEA - estimate) and 735GW by 2050.

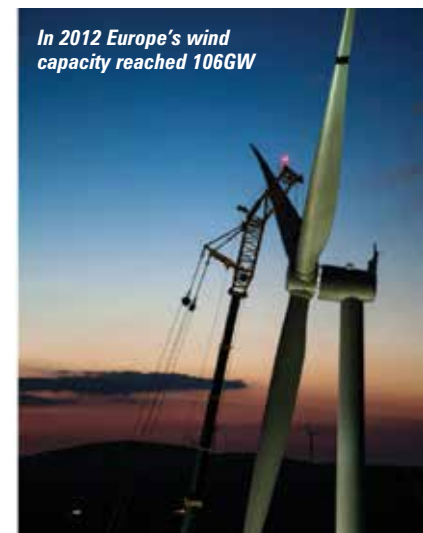


Renewable power plants accounted for 79.1 percent of new installations during 2014. Today, grid-connected wind power is enough to cover 10 percent of the EU's electricity consumption, up from eight percent in 2013. Germany and the United Kingdom accounted for 59.5 percent of the total EU wind energy installations in 2014, at 5,279MW and 1,736MW respectively.

Bigger and better?

With improved technology, the output and size of turbines has also grown. In 1985 rotors were typically 15 metres in diameter, with turbine capacities under one MW. Today rotor diameters of 100 metres are not unusual, with an average of 2.5MW output and up to 7.5MW

with 120 metre diameter rotors. Rotors look set to get even bigger with turbine capacities of 15MW and even 20MW being planned. A modern wind turbine is available to produce electricity between 80 and 98 percent of the time, but obviously produces different amounts depending on the wind speed. A typical onshore turbine typically generates around 24 percent of its theoretical maximum capacity (41 percent for offshore turbines) compared with 50 to 80 percent for a conventional power station. However when comparing overall efficiency - the relationship between energy in and out - wind fares much better with a limit of 59 percent compared to 35 percent coal and 50 percent gas.



In 2012 Europe's wind capacity reached 106GW



Turbine heights

Contractors working in the European wind sector - particularly outside of the UK - are now installing turbines with hub heights of up to 140 metres, although this will grow to 150 and 160 metres. In the UK the hub height is lower, partly due to pressure from the anti-wind lobby, but also because of the excellent wind farm sites still available. Outputs from 60 metre towers are however significantly less than for 80 or 100 metre towers. The UK still has many sites still to be developed that can produce efficient energy with 80 metre towers.



Are cranes available?

Even though hub heights and turbines are increasing in height and weight, crane development has largely kept pace, and there are cranes capable of erecting the largest turbines. A few years ago, the industry went through a difficult phase including several serious incidents which resulted in an industry gathering in Hamburg organised by ESTA. While this 'contractor vs client' open meeting aired industry grievances regarding pricing and safety, it would appear that very little has actually changed since then. Although there have been fewer serious incidents - particularly in Europe.

One of the UK-based companies operating in the European wind sector is Windhoist. Technical manager Declan Corrigan says that

there are a range of crane models available to erect the heavier and higher turbines, but the problem is the extended periods of time the larger components are on the crane hook, increasing the risk of problems from ever changing wind speeds. There is the option of single blade installation to reduce the total surface area exposed to wind but this is not a simple process and the overall installation time is extended which increases the risk of running into wind down-time.

Since Christmas, high winds across Europe as a whole have seriously affected turbine installation. The

main problem with the larger turbines is that it may take up to two days to fully erect a typical four or five section tower, nacelle and rotor. Predictions of wind strength and direction may only be valid for 24 hours in advance and are never truly accurate for specific locations. This means that by the time the installation contractor has mobilised cranes, ballast, transport and crew (a team of 20 - 50 people depending on the scale of the project) the whole erection process is entirely weather dependent and the key decisions lie with the crane supervisor.

In a typical four section, 80 metre tower, the base and second section may be erected ahead of the final two tower sections, nacelle and rotor using a smaller capacity



The tagline teams have to control the blade assembly

"At the moment there is limited guidance on lifting in wind."



crane (500 to 750 tonne telescopic) and can be left freestanding safely. This also allows for work to be carried out inside the lower sections ahead of installing the remaining components. With wind strength and direction forecasts unpredictable at best, the next stage - the final tower sections and nacelle and rotor - have to be fully completed as an uninterrupted cycle until, at least, the nacelle has been mounted, or not at all. Once the third tower section is started it is all or nothing. If the base section and two bottom sections are installed one day then the remaining turbine components (with rotors pre-installed on the ground) may - in ideal conditions - be erected on the second day.

Wind problems and guidance

"At the moment there isn't joined up thinking between the crane manufacturer and the installation contractor about lifting in wind," says Corrigan. "Crane manufacturers look at how a component affects the crane in a set configuration. They consider the characteristics of the larger components i.e. fully assembled rotor and wind loading, the structural strength and integrity of the crane and also torque resistance within the slewing

interface. They are not concerned how the component moves and behaves in the wind and how it affects itself. The newer type of 100+ metre diameter rotors the blades are not fully pitched out when lifted and may be set at five or six degrees so when the wind reaches about six metres a second and above, the blade starts to oscillate and move. It will not affect the crane but it does affect the tagline teams who have to try and keep control of it."

Corrigan says there is limited guidance on lifting in wind. "I have asked ESTA to look into this because



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if you search for guidance on lifting in wind there is the FEM document (based on a very good Liebherr document) 'The influence of wind on crane operation' but little guidance anywhere else. Crane manufacturers will give the maximum wind speed allowable to lift for a particular crane configuration - say 10 metres a second - but is it safe? The actual limit applied to the lifting operation may often be much less than this - up to 20 percent in some instances - based on a risk assessment of the operational factors needed to maintain control of the suspended rotor.

"In common with other contractors we have had 'near misses' as well. About 18 months ago we

were preparing to erect rotor, and from 7am to 10am the wind was three metres/second in line with predictions. Quite suddenly it gusted to 20 metres per second when we were about to lift the rotor from the hub support. Except for the fact that the lift had been delayed due to a technical fault with the pitch system the rotor would have been on its way up to the nacelle and the consequences could have been catastrophic. Of late we have stopped relying solely on the crane manufacturers for guidance when lifting rotors because we were having to down-rate some of the wind speed figures they supplied - primarily to keep control of the component during the lift."



Despite the anti-wind lobby the UK and Ireland looks set to be very busy over the next two years

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C&a lifting wind turbines

e.g. LG1750 may be assigned a higher limit - up to 11 metres per second. However, if we cannot control the rotor in windspeeds in excess of 8 metres per second then the difference between both crane types is, in reality, only half a metre per second."

"From early 2013 we began to encounter more and more large rotors up to 101, 108 and 113 metres on 80 metre towers. We were told by the manufacturers that their lattice cranes could install at wind speeds of 10 or 11 metres per second yet we were never able to lift one when the wind speed was more than eight metres."

So how dangerous is turbine erection?

"Since the ESTA wind meeting there has certainly been more awareness when carrying out lifts. When lifting a very large rotors onto 140 metre towers, it can take almost 45 minutes to complete the lift itself and this means a higher risk exposure period. Ultimately, you are relying on your people on the ground to say it is safe to lift, and if circumstances change knowing how to make the load and the crane safe."



Single blade installation is riskier because of the extended time taken

"Lifting in wind is a very inexact science. Wind patterns are not stable and the physical topography affects each site differently, particularly when working on a hill and whether there are trees or not. In the accident in Brazil a few years ago, the rotor was only a couple of metres off the ground, but the load was still acting on the top of the boom having the same result."

Approach roads and counterweight

Another problem area for installation contractors are the approach roads and hard standing areas. "Major clients are now first class at providing appropriate road designs

Legislation and guidelines?

"Under the legislation and guidelines we operate to, a risk assessment is required to de-risk the worst case scenario and to build contingency measures on how to deal with it. When we apply a wind speed limit to a specific lifting operation our control measures must be sufficiently robust to ensure the lift is completed successfully or the component is made safe; our risk analysis makes allowance for a potential 50 percent increase in wind speed value and this has, to date, not been questioned or rejected by anyone. So if the crane manufacturers say a maximum of nine metres per second is OK for a specific lift is this acceptable? Must I then have sufficient resources to control the component if the wind speed were to rise

to 13.5 metres per second! The important factor here is that the decision to proceed with a lift is not taken by the manufacturer's engineer in Germany, but by the crane supervisor on the side of a mountain.

Different crane types?

"When components are of a certain size and scale, the type of crane lifting it - a telescopic, crawler lattice or wheeled lattice - is a secondary consideration to the component itself. Cranes don't make mistakes, they have limitations. Based upon their calculations Liebherr will contend that a 1,200 tonne LTR 11200 telescopic crawler, with luffing jib, lifting a 113 metre rotor onto an 80 metre tower can work up to a maximum of 7.5 metres per second. On the other hand a heavy lattice boom crane



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and construction, complying with the relevant European codes for bearing capacity etc...," says Corrigan. "Small developers however are not so conscientious. Each turbine supplier has its own standard specification for the construction of roads and hardstanding which has to be adequate not only during the installation but for future maintenance and decommissioning which may be in 20 to 25 years' time."

As turbines get higher and cranes (and booms) become larger, more counterweight is needed increasing mobilisation and operating costs. For example a crane with a 150 metre boom may need up to 400 tonnes of derrick ballast to raise it, then it will continue to complete the installation works with lesser amounts of counterweight. The problem then is the stability of cranes with long booms in out of service conditions, much more consultation is needed between the crane operator and manufacturer to ensure the crane is sufficiently stable when left in an unladen condition and the boom is not lowered. There have already been a number of high-profile incidents where cranes have fallen over in out of service condition.

Big cranes

"Higher hub heights result in increased installation prices. Installation contracts are subdivided between crane and the labour costs. The number of man hours needed to erect an 80 metre turbine might half that of a 140 metre machine but the crane specification is markedly different and the cost differential is much greater. You could buy a 750 tonne class lattice boom crane equipped to install 100 metre hub height turbines for half the cost of the

configuration needed to erect 140m hub height turbines."

"We are looking at 140 metre turbines now and where the stipulation is a wheeled crane, only the Liebherr LG1750 can be used - there is no other wheeled crane in this class with capacities to match this machine on the SL12 boom. If Terex were to offer the CC3800 on a wheeled carrier then it would be another option but I'm not certain this is likely to happen anytime soon.

"Going back 10 years the crane of choice for putting up turbines was the Terex TC2800 or CC2800NT, which we have successfully used in Morocco and now in Mauritania. When using a TC2800 if you put on more than 102 metre boom and 12 metre fly you need derrick to lift off the ground. The CC3800 can lift 114 metre boom and 12 metre fly without derrick which would be attractive if available on a wheeled carrier. I am certain that there will be demand for a 1,000 tonne class lattice boom on wheeled carrier especially as hub heights increase in the UK but the size of the slew-ring needed in this crane class may exceed three metres in diameter and will pose a major problem for carrier design."

Corrigan is obviously a big Liebherr fan. "The telescopic crane world changed forever when Liebherr brought out the LTM 1500. Many still say it is the best telescopic crane ever built," he says. "The Terex AC500 has very good duties but the difference of the longer boom was incredible. Liebherr tried to grow the concept of the LTM 1500 into the LTM 11200. We have used the larger crane very successfully but it isn't an LTM 1500, it is a far more specialist, niche crane. On larger turbines the size and weight of the tower base section has increased significantly. On a 110 or 115 metre tower the base section may weigh up to 100 tonnes and you won't lift that in with a 500 tonner - you now need a 750 tonne capacity crane and one that can move quickly. The 750 tonner is also good for turbines with 80 metre hub heights. The base sections are well over 80 tonnes which is also too much for a 500 tonner. This is the reason the LTM 1750 tonner is good, especially where there is limited civils work because you can add the luffing jib from the existing hardstanding without additional works, reducing costs but also helping with planning, especially if the client has no scope

to build secondary hardstanding."

Future?

The UK will see unprecedented turbine installation levels over the next two years and many are worried that safety standards could be pressurised as happened in the run-up to the ROC rebranding deadline in 2013. With the downturn in construction post 2010 many contractors flocked to the wind industry but, for larger scale projects, there is still only a select group - including Windhoist, Global Wind, Total Wind, BMS and Fairwind - that can realistically be considered.

For Windhoist the UK and Ireland is still its biggest market, followed by Western Europe as well as other countries such as South Africa, Morocco and Mauritania. Its fleet is kept current with the addition of one or more heavy cranes a year adding a 1,200 tonne LTM 11200 in 2009 followed by another in 2011, a Terex CC2800 NT and Liebherr LTR11200 in 2013, and a Terex TC2800 last year. This year two Liebherr LTM 1750s have been added.

"This sector of industry demands specialist cranes," says Corrigan. "We generally chose Liebherr at 500 tonnes and above, but smaller Grove, Liebherr, Terex and Tadano all have good quality and performance. We recently added a 300 tonne, 80 metre boom Grove GMK 6300 for example."

Erecting wind turbines is a hard and difficult job, most of the time stuck in the middle of nowhere in very inhospitable locations, so finding staff is not easy. Training is onerous and has become very expensive.

"Installation contractors take on an enormous amount of risk in the erection phase of a windfarm," he said. "For example, a 10 turbine project over an eight week period can involve 20 to 30 crane journeys on freshly prepared roads, 40 to 60 truck journeys, up to six lifts per turbine so you have very intense activity levels in the first weeks of the lifetime of a windfarm... However given the risks the industry has a good safety record. Standards in the UK wind industry are far higher than in the general construction industry. The biggest risks involve moving equipment. The industry did have issues with cranes going off roads etc...but this has improved. Unfortunately there is always the potential for an incident because of human error but with training and experience this is reduced to a minimum."

**A Terex
CC8800-1
erecting
a 7.5MW,
170 tonne
Enercon
E-126
turbine**



Grace Kelly makeover

The world's largest spider crane - the 10 tonne capacity Unic URW-1006 - was used to replace the nine metre long blades of a 24 metre high E-3120 turbine named Grace Kelly, from Huddersfield-based turbine specialist manufacturer DC21. All the turbines manufactured by the company are given names - just along the road from Grace is Rita Hayworth...

The 10t capacity URW-1006C



DC21 manufactures three turbine models. The Endurance E-3120 50kW is its smallest but most popular, and designed for larger farms, schools, hospitals, and commercial sites producing 100,000 to 250,000 kWh a year. It is available on towers of 24.6 and 36.4 metres and has a rotor diameter of 19.2 metres. Slightly larger is the Endurance E4660, while the largest is the 225kW X-29 wind turbine

producing 200 to 850 MWh a year.

To replace the blades, the URW-1006 spider crane used its full 31.7 metre reach, more than enough to lift the turbine and rotor hub up to the top of the 25 metre tower. Each blade - which weighs 410kg - had to be installed facing down by an expert installer working at the top of the tower. Once the blade is fitted, the hub is rotated ready for the next blade to be installed. Grace Kelly has offset 164,933kg worth of CO₂ since it was built in 2013.

The URW-1006 is able to pick & carry loads up to 1.5 tonnes, more than enough to move the blades and the 500kg rotor hub. Its variable outriggers provided plenty of levelling and stability on the uneven surfaces.

C&a lifting wind turbines



On top of the 25m tower



Each blade weighs 410kg



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GIS EXPO
Piacenza (Italy) - October, 1-3



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Boom Booster eases installation

Belgian-based rental company Sarens used a new 1,600 tonne Terex CC 8800-1 crawler crane with Boom Booster kit for the first time on a job to erect an Enercon E-126 wind turbine at the Netherlands largest wind farm Windpark Noordoostpolder.



Erecting the 170t Nacelle

metre wide access ramp with a 2.5 percent slope to keep the maximum ground pressure under 10 tonnes per square metre. Because of this all assist cranes had to move on mats and final lifting locations had to be levelled. Trenches on both sides of the access road further complicated matters which meant it was necessary to form a special bridge to set up the booms.

With a main boom length of 138 metres - including 72 metres of the Boom Booster - and an 18 metre LF extension, the CC 8800-1 had a total system length of 156 metres. This was enough to lift the turbine components to a hub height of 135 metres, while using an offset of 20 degrees. To do this, the crane was equipped with 295 tonnes of superstructure counterweight, 60 tonnes of central ballast and 400 tonnes of superlift counterweight.

The kit consists of five 10 metre wide folding inserts and two adapters and can be built up to 72 metres long. It is 50 percent heavier than the standard boom and is designed to increase capacities at short radii and long boom lengths- by up to 60 percent - by reducing lateral deflection, making it ideal in the installation of large wind turbines.

Enercon's preferred crane - Sarens' Terex CC 9800 - was not available for the job, so the CC 8800-1 with the Boom Booster kit was offered as an alternative. Terex Cranes used 12 delivery trucks to deliver the Boom Booster kit directly to the work site from its factory in Zweibrücken. The frame was partly pre-assembled allowing Sarens to save time on site. Almost 120 vehicles were needed to transport all the hardware and supporting materials, including 48 trucks to transport the crane.

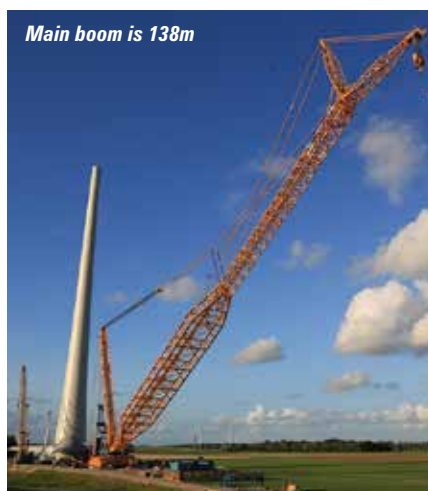
Work conditions on site were unusual and involved creating a three metre raised work platform and a seven

“We were very pleasantly surprised that the team was able to set up the CC 8800-1 crane with the Boom Booster kit and a BSSL and LF configuration in a similar time to the normal boom,” said Sarens project manager Hendrik Sanders. “Once the crane was set up the rest was a routine job. Two assist cranes erected the E-126's tower and the CC 8800-1 then installed the 170 tonne, 7.5MW nacelle at a radius of 40 metres. The 260 tonne generator was installed at a 36.5 metre radius and the 375 tonne hub at a radius of 33 metres. The three fiberglass rotor blades, each weighing 40 tonnes needed a working radius of 23.5 metres.”

This whole process will be repeated for another 37 wind turbines, meaning that the CC 8800-1 crane will be staying at the site for up to a year, working alongside a CC 9800 crane from Enercon.



The Terex CC8800-1 Boom Booster kit



Main boom is 138m



The 72m long Boom Booster

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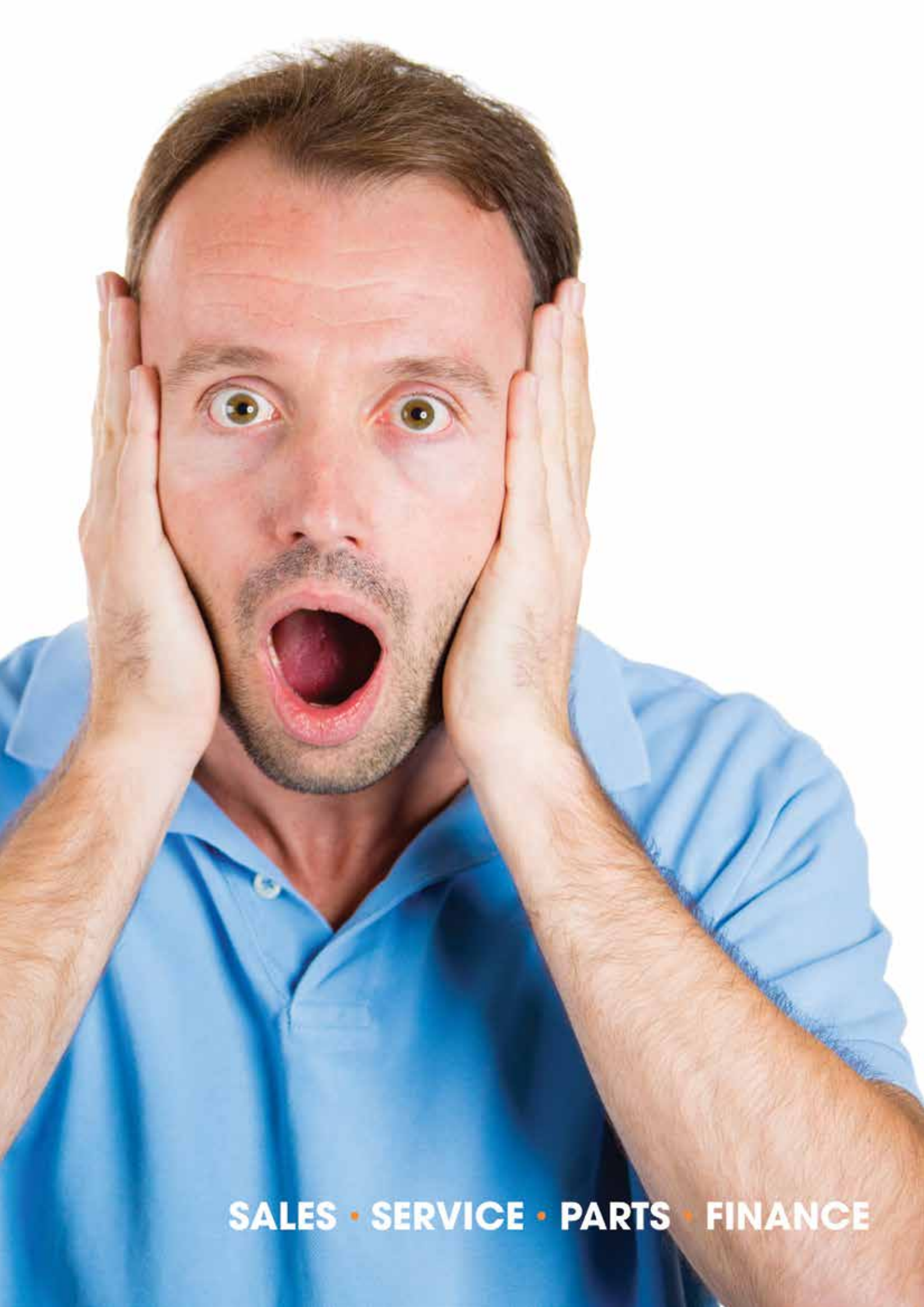
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The Vertikal guide

for buyers and users
of lifting equipment



Vertikal days



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Access
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Cranes

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This year's big show

C&A

vertikal days



It is hard to believe, but Vertikal Days goes into its ninth show as Europe's - and possibly the world's - largest crane and platform event this year! It certainly has more crane and aerial lift exhibitors - and a larger number of machines on display - than any other show being held in 2015. Hopefully the spring weather will be kind, and help make it the best Vertikal Days so far in terms of visitors. Pre-registrations are up again, with a good number of first time visitors registering, alongside hundreds of regulars.

This year the range of exhibits is substantially wider than ever before, ranging from batteries and tyres to some of the largest cranes on the market.

One thing is absolutely certain, if you have any interest in lifting equipment of any kind, this year's event is an absolute must. As usual you have the chance to see all of the world's major crane and access manufacturers without having to walk miles and in a setting where exhibitors are not distracted by thousands of gawkers or side shows. You can be sure that everyone else at the show - both visitors and exhibitors alike - share your interest and are involved in a similar business to yourself, helping make what is already a very social

event even more productive and enjoyable.

A year of changes

The 2015 event will maintain the popular format of free parking, free hospitality and a friendly informality, but will also see the introduction of more changes and improvements than ever before, in an attempt to significantly upgrade the visitor experience without spoiling the most popular aspects of this unique event. Changes include relocating and expanding the Marketplace, doubling the main food serving stations in the Catering Marquee and separating the barbeque and sandwich bars, all aimed at reducing the food queues at peak times, not an easy task when you are feeding well over 1,500 people each day.

If you haven't already pre-registered you can do so at www.vertikaldays.net - You can also print out your own badge to speed your passage into the show.



People, meetings and seminars

If you are associated with the lifting business but not as passionate about the equipment as some, no problem! You can focus on the many other aspects of the event from meeting your peers to informative workshops, seminars and meetings. Typically more than 80 percent of the UK and Ireland's specialist rental companies will attend over the two days, along with an increasing number of large end users, which together represent the vast majority of the region's annual buying power. This gives ample opportunity to network and exchange ideas with others. There are also more short meetings and seminars this year, including the CPA hosting a Strategic Forum meeting and several IPAF events. It all adds up to allowing more time for your visit.



Catering

Vertikal Days is unique in that visitors really do get a 'free lunch'. Our caterer Barry Miles is back with his largest team so far, and will be roasting 15 free-range, large white porkers from Bovingdon, Hertfordshire, barbecuing over a thousand sausages from the same supplier and several thousand beef burgers. Once again there will be a vegetarian option or two, tasty salads and a cheese bar. And for those who prefer something really quick, you can get a freshly made sandwich or baguette at the popular sandwich bar. A big change this year is the doubling up of the main serving stations, now available at both ends of the larger Catering Marquee.



Lunch menu

Miles' famous hog roast
Barbecue stall with burgers and sausages
Vegetarian chilli
Salad selection
Cheese board including Spierings' Cornish Gouda
Fruit basket
Sandwich/baguette bar for those in a hurry

Marketplace

In a new location and bigger again with more exhibitor stands, the Marketplace is the place to have a coffee and meet up and check out a whole host of suppliers providing training, replacement parts, batteries, software and safety technology, finance and legal services.





Evening event

Wednesday evening is the annual Vertical networking event. This year sees some significant changes as we implement stage one of a two year transformation of the event, which started in 2007 as a simple evening meal with entertainment for about 150 exhibitor staff and the odd customer or two. In recent years it has grown to a point where numbers have had to be limited to 750 for space and safety reasons. This year the menu is being expanded to include a hot buffet with more selection and variety and most importantly, more seating. The musical interlude will be provided by the highly popular Roller Coaster, back after a two year break. Tickets will be supplied to exhibitors first, with any additional tickets offered on a first come, first served basis to those who want them. You can put your name on the waiting list by emailing: pt@vertikal.net.

Practical details

Venue:

Haydock Park, Newton-le-Willows, WA12 0HQ, off junction 23 of the M6

Show dates and times:

Wednesday 13th May: 10.00-17.30

Thursday 14th May: 10.00-16.30

Coffee, tea and snacks served in the Marketplace all day.

Lunch is served in the Catering Marquee: 12:30-14:30

Networking Event: (tickets required)

Wednesday 13th May: 18.30-11.00

How to Register:

- Pre-register online and print out your badge,
- Bring along a completed invitation and swap for a badge, or just turn up with a business card and swap it for a badge.

So what's to see at the show?

The following is the full listing of exhibitors grouped by major product sectors. There is also a full alphabetical listing on page 52.

Access Equipment & Telehandlers

Access Industries: Stand 107

See Multitel Pagliero



Access Sales International: Stand 401

The UK distributor for Ruthmann, Access Sales International will have a wide selection of truck mounted lifts on the stand including the recently launched 28.5 metre

TU285, mounted on a 7.5 tonne chassis. The unit offers 20.5 metres of outreach and a platform capacity of 230kg. Other models include a 22 metre TBR220, a 63 metre T630 and a 72 metre T720.

Aerial and Handling Services: Stand 212

As the Airo dealer in the UK, Aerial and Handling Services will have a total of seven Airo platforms on show including three articulated boom lifts and four scissor lifts. It will also exhibit its deckRailXtra material

handling attachments and is likely to have a number of Sanctuary Zone products on display.

Affordable Access: Stand 101a

The Co.Me.t distributor will showcase its 26 metre Eurosky 26 articulated truck mounted lift fitted with 17 inch super single rims and tyres, which effectively makes it suitable for off-road applications. It will also have the new Eurosky 22/2/10JIB mounted on a Fuso Canter on the stand, along with the new Eurosky 14/2/6/HQ mounted on a Ford Ranger. The company was recently appointed agent for Goanna Track's super single rims for Canter, Isuzu & Iveco and will launch the product at the show.



The 26 metre Co.Me.t Eurosky 26 fitted with 17 inch super single rims and tyres

Airo: Stand 212

See Aerial and Handling Services

AJ Access Platforms: Stand 203

The largest scissor lift at the show - a 83ft Holland Lift Hybrid HL-275 H25 4WD/P/N with 27 metre working height and 1,000kg platform capacity - can be found on the AJ Access stand. Also on the stand will be a selection of refurbished aerial lifts for sale, while several Holland Lift specialists will be on hand to offer information and advice on its products.

Almac: Stand 105/6

See Skyking

APS: Stand 306/7

See IAPS

Ascendant Access: Stand 102

British truck and van mounted lift manufacturer Ascendant Access will have a number of van and truck mounted lifts on its stand, including its 22 metre A22, 18 metre A18, 12.5 metre VM12.5 and its Urban Artic unit and trailer. Following a partnership agreement between Ascendant's parent company Redwood and truck manufacturer Iveco, there will be representatives from the Italian-based company on the stand.

ATN: Stand 310

ATN will show a selection of machines, including its new 10 metre PIAF 1000R mast boom, 8.1 metre PIAF 810 tracked mast boom and the four-wheel drive Zebra 16 articulated Rough Terrain boom lift,

which will be equipped with the company's new ACS secondary guarding system. Also ask about its new 23 metre spider lift launched at Intermat.

Avant Tecno: Stand 410

Avant will show its new wheeled and tracked Leguan 135 self-propelled platforms. Offering an outreach of 6.8 metres, auto levelling and a 140kg platform capacity, the new machines will be joined by the 16 metre Leguan 160 spider lift and the five metre Leguan 50 telescopic mast platform attachment for a front-end loader. It will also have a number of compact tool carriers and attachments on display.



Avant's new Leguan 135 tracked platform

Big Astor: Stand 510a

As well as showing its Pedestrian Tunnel and modular pedestrian footpath, Big Astor will be showing its first People Lift push around scissor - the four metre working height Genius MAK1. With guardrails removed it has a stowed height of just 520mm and weight of 94kg. Overall dimensions are 1160x790mm and has a height of 1620mm when fitted with rails.

Bizzocchi: Stand 303

See CTE

Böcker: Stand 103/4

See Kranlyft

Bronto Skylift: Stand 100

Truck mounted lift manufacturer Bronto will use the show to debut the first 47 metre S47XR in the UK. Mounted on a 26 tonne Volvo FM chassis with full sleeper cab and rear steer axle, it has been fitted with a newly redesigned rotating camera cage. The company will also exhibit a fully-specified 56 metre S56XR, fitted with a CW-400 cage winch, 1,100kg boom winch, lighting rigs and camera pods as well as a 90 metre S90HLA mounted on a Volvo FM rear steer chassis. Be sure to also visit its stand in the Marketplace to test your skills on its latest training simulator.



The Bronto S47XR will be making its UK debut

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CMC: Stand 201

See *Ranger Equipment*

Co.Me.t: Stand 101a

See *Affordable Access*

Cormidi: Stand 312

See *GGR*

CTE UK: Stand 303

CTE will display the new compact 20.7 metre Zed21.2JH which is significantly lighter than its previous model due to a new design, new high-strength materials and redesigned sub-frame and outrigger assembly. Mounted on a 3.5 tonne Nissan Cabstar chassis it offers an outreach of 10 metres and an unrestricted platform capacity of 280kg. The company will also have its 26 metre Zed26JH on show mounted on a 7.5 tonne chassis.

Cumberland Platforms: Stand 407

Recently appointed as the UK distributor for Imer Access/Iteco, Cumberland will have four Imer scissor lifts on the stand, with working heights from 6.5 to 14 metres, as well as the company's 18.7 metre IM R19 and 12.8 metre IM R13 spider lifts. The company will also display two 13.2 metre Socage A314 truck mounted lifts mounted on a Toyota Hilux and an Isuzu D Max chassis.



Imer's 6.5 metre IM 4680 MC scissor lift features a 360mm lateral deck extension

Custom Equipment: Stand 403b

See *HY-Brid Access Platforms*

Dingli: Stand 101d

See *KAM Trading*

Dinolift: Stand 411a

Dinolift is exhibiting at the show directly for the first time as it looks to obtain feedback on its products - which include booms, trailers and spider lifts - with an eye to adapt them to suit the UK/Ireland market. Do stop by and give them the benefit of your experience.

Easylift: Stand 105/6

See *Skyking*

Facelift: Stand 102

Sharing a stand with Ascendant, Facelift is one of the UK's leading access rental companies.

Falcon: Stand 404

See *TCA Lift*

Faraone: Stand 308

Italian aerial lift and scaffold manufacturer Faraone will use the show to launch the Elevah 40 Picking, a self-propelled lift/stock picker. Similar in shape and size to its Elevah 40 Move, an added lifting shelf allows objects weighing up to 40kg to be lifted to a height of three metres. With an overall weight of just 180kg, the battery powered lift offers a four metre working height and a 150kg maximum platform capacity.



Faraone will launch the Elevah 40 Picking

Faresin: Stand 101d

See *KAM Trading*

France Elévateur: Stand 101c

See *Utility Equipment*

Gehl: Stand 205

See *Manitou*

Genie: Stand 608

Genie is almost certain to have



Genie's 180ft SX180 boom lift



the highest self-propelled aerial lift on the showground with its 180ft SX-180 boom lift. Alongside it will be its newly launched electric 33ft Z-33/18 boom lift, the 62ft diesel Z-62/40 boom lift, a battery electric GS4047 scissor lift with enhanced Genie Smartlink control system and a compact GTH-2506 telehandler.

Genius: Stand 510a

See *Big Astor*

Giraf Track: Stand 312

See *GGR*

GSR: Stand 105/6

See *Skyking*

Hinowa UK: Stand 305

The new 26 metre Hinowa 26.14 Lightlift Performance IIS spider lift will make its UK debut at Vertikal Days after being unveiled at Intermat. The company and its UK dealer APS, will also showcase a number of other Hinowa spider lifts including some from its Lithium range and a selection of tracked dumpers.



Hinowa's new 26.14 Performance IIS spider lift

Holland Lift: Stand 203

See *AJ Access Platforms*

HY-Brid Access Platforms:

Stand 403b

Custom Equipments' UK distributor Hy-Brid Access Platforms will have a range of low level access platforms on show including the recently CE-marked 5.66 metre HB1230CE self-propelled scissor lift and the 3.6 metre HB-P3.6 push around.

IAPS Group: Stand 306/7

IAPS' three divisions - IPS, APS and PSR - will all be represented on its stand this year. IPS will launch a new range of parts consumables including its own branded chemical and lubricant sprays, plus its Power series of deep cycle traction batteries. It will also display new products from its Outriggerpads division as well as showcasing the Thermoil range of battery additives for the first time. PSR will have a new mobile service van on display while APS will show a range of machines from the manufacturers it represents which includes Genie, Isoli, Niftylift, Ommelift, Wienold Lift and Youngman BoSS.

Imer: Stand 407

See *Cumberland Platforms*

IP Forktrucks

UK rental company IP Forks will not be exhibiting at the show however it is supporting the event by providing one of its forklifts.

Isoli: Stand 306/7

See *IAPS*

Iteco: Stand 407

See *Cumberland Platforms*

JCB: Stand 406

JCB will have the largest fixed frame telehandler at the show with its 20 metre 540-200 powered by an EU stage IIIB/Tier 4 Interim engine. Also on the stand will be the new 525-60 Hi Viz Loadall powered by a Kohler Tier 4 engine, along with a series of models from JCB's telehandler line. The company will also have staff on hand to discuss its finance and insurance offers.

JCB's new 525-60 Hi Viz Loadall will be on show



JLG: Stand 408/9

Vertical Days will be the first chance for many to see JLG's new, top of the line mast boom - the 12 metre Toucan 12E+ with telescopic jib. Other products will include models from its RS rental range of slab scissor lifts and a 60ft 600AJ boom lift equipped with the company's SkyGuard secondary guarding system with reverse functionality. The system is now available to retrofit to all JLG diesel booms manufactured since 2004. Finally the company will show the new 26 metre X26J Plus tracked spider lift with 230kg unrestricted platform capacity.



JLG's 12 metre Toucan 12E+ mast boom

KAM Trading will have a 11.5 metre Dingli AMWP11.5-8100 mast boom on show.



KAM Trading: Stand 101d

KAM Trading now represents Dingli platforms, Manotti platforms and cranes and Faresin telehandlers - so expect a very full stand. Dingli products on display include an 11.5 metre AMWP11.5-8100 mast boom along with several of Dingli's increasingly popular electric slab scissor lifts. KAM Trading will also launch the 20 metre Manotti double pantograph GDX20E truck mounted lift on a Nissan Cabstar chassis, as well as showing three Faresin telehandlers - the FH6.25, FH14.42, and FH17.40.

Leguan: Stand 410

See *Avant Tecno*

Liftlux: Stand 408/9
See *JLG*

Manitou: Stand 205

Celebrating the recent sale of its 500,000th machine, Manitou will exhibit a limited edition MLT 735 telehandler painted in a special benchmark livery. The main attraction however will be its new 12 metre Man'Go boom lift that was launched at Intermat.



A limited edition Manitou MLT 735 telehandler

Manotti: Stand 101d

See *KAM Trading*

MEC: Stand 202

MEC, now distributed by APS, will exhibit a number of its innovative machines including the 60ft 6092RT Rough Terrain and hybrid 4069ERT scissor lifts together with a 30ft Speed Level. Most notable though

C&A

vertikal days

will be the unique Titan Boom - half mega deck scissor lift and half boom lift with a bit of telehandler DNA thrown in for good measure. Ask about plans for its new simple 60ft boom.

Multitel Pagliero: Stand 107

Multitel and its UK dealer Access Industries will exhibit three new truck mounted lifts, as well as a number of updated products. Launched at Intermat, the 16.2 metre straight telescopic MT 162 EX truck mount offers an outreach of 11.1 metres and a maximum platform capacity of 300kg. The second new product is a MJ 201 mounted on an Iveco Daily chassis, while its third is a new 30 metre SMX 300 HD spider lift which will feature alongside its existing 25 metre SMX 250 spider lift which only weighs 2,770kg.

Multitel will feature a new spider lift with a 30 metre working height.



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Stand 400

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Niftylift: Stand 301/2

The Niftylift stand always has a wide selection of boom and trailer lifts on show. This year the star of the show is its re-engineered 17 metre HR17N Hybrid boom lift alongside its 86ft HR28 Hybrid self-propelled articulated boom. Other self-propelled models include a 63ft HR21 Hybrid, a 43ft HR15 4x4 and a 33ft HR12NDE. The company's market-leading trailer lift line will be represented by a 14.7 metre 150TPET model.



Niftylift's HR28 Hybrid self-propelled boom lift



Oil&Steel's 14 metre Octopus 14 spider lift

Oil&Steel: Stand 101b

Sharing a stand with sister company the PM Group, Oil&Steel will highlight its 14 metre Octopus 14 spider lift, as well as its new 20 metre Snake 2010H truck mounted lift which has been redesigned to be more lightweight and compact as well as featuring H-style outriggers. The company will also show an 18 metre Scorpion 1812 which offers an outreach of 12 metres and a maximum 225kg platform capacity.

Ommelift: Stand 306/7

See IAPS



Palfinger Platforms: Stand 105/6

See Skyking

Platform Basket: Stand 209

See Promax

Pop-Up Products: Stand 411

While not attending the show itself, Snorkel UK represents the manufacturer of low level scissor lifts.

Power Scissor: Stand 403

See The Access Platform Company

Power Towers: Stand 304

Power Towers will exhibit a number of models from its Power Tower, Nano SP and Eco ranges. The highlight of the stand will be the new 4.2 metre Ecolift, big brother to the company's highly successful

Pecolift. Wind rated versions of both products are also available and will be on display.



Power Towers' Pecolift and Ecolift will both feature at Vertikal Days

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Promax Access: Stand 209
Promax - the Platform Basket, Reedyk Compact Cranes and Faraone distributor - will have a wide range of products on show including a new lithium powered Spider 33.15 and a new 22 metre Spider 22.10 with 230kg platform capacity, both from Platform Basket. Also on display will be the 4.25 tonne Reedyk C3412 articulated mini crane and a number of innovative low level access platforms from Faraone's Elevah range.

Ranger Equipment: Stand 201
The UK distributor for CMC spider lifts will demonstrate the 14.9 metre CMC S15, alongside the new 18.8 metre S19N spider lift. Featuring a twin sigma-type riser,

a two section telescopic boom and an articulating jib, the S19N offers an outreach of 8.8 metres and a maximum platform capacity of 230kg. It is also only 780mm wide allowing it to pass through regular single doorways.

ReechCraft: Stand 403
See *The Access Platform Company*

Ruthmann: Stand 401
See *Access Sales International*

Skyaces: Stand 105/6
See *Skyking*

Skyjack: Stand 412
Skyjack will have a wide selection of models on show, but the star of the stand is the all-new 86ft SJ86T telescopic boom lift. Its dual capacity range offers a maximum platform capacity of 341kg and



while it competes exceptionally well against the other products on the market, it incorporates Skyjack's simple reliable technology. Other key products include the SJ12/16 vertical mast lifts, alongside a number of units from its popular DC and RT scissor ranges including the 32ft hybrid SJ6832RTE Rough Terrain scissor lift. Its new range of material handling devices - Accessoryzers -

will also be on display.
Skyking: Stand 105/6
Skyking has expanded the line of access products it distributes, which now includes GSR and Palfinger Platforms truck mounted lifts, Easylift spider lifts and Almac tracked scissor lifts. The company will have no less than 10 machines on its stand with working heights ranging from 7.5 to 90 metres! Key new products to look out for are the 7.5 metre Almac Bibi 850BL tracked scissor lift and Palfinger's 48 metre P480 truck mounted platform. Pay particular



Skyjack's new SJ86T will be making its UK debut



The newly launched CMC S19N spider lift

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attention to this machine's jib and platform rotation capability which has also been incorporated into the manufacturer's new 55 metre P550 truck mount.

Snorkel:

Stand 411

Snorkel will use Vertikal Days to launch its all-new range of electric slab scissor lifts for the European market. Painted in the updated Snorkel livery, the new 19ft S3219E and 32ft S4732E include new heavy duty steel decks, dual side component chests, a new scissor arm and bearing design and several other rental friendly innovations. The show also marks the launch of its enhanced Snorkel UK operation, which has recently expanded its team with three new appointments and additional service vehicles.



An Almac Bibi 630 tracked scissor lift



Making its European debut - Snorkel's S3219E

Socage: Stand 407

See Cumberland Platforms

Speedy Services: Stand 204

Speedy is once again supporting the show by providing all of the power generation equipment and cabling while also supplying and installing all of the perimeter fencing and pedestrian barriers around the showground. As one of the UK's leading providers of rental equipment and other associated services to the construction, infrastructure and industrial sectors it is certainly worth a visit.

Spiderlift: Stand 201

See Ranger Equipment

TCA Lift: Stand 404

TCA Lift will be showing the 33 metre Falcon Spider FS330Z. With a 19 metre outreach and 11 metre up and over height, the tracked spider lift has a double articulating jib and 200kg basket capacity. Track width is variable from 1.1 to 1.5 metres and wireless remote control is standard.

Terex Utilities: Stand 407

See Cumberland Platforms

Teupen: Stand 309

German spider and truck mounted lift manufacturer Teupen will exhibit its latest 24 metre Leo24GT spider lift. Launched at Intermat and big brother to the 21 metre Leo21GT, the new machine offers an outreach of 12 metres and a platform capacity of 250kg. It also features a newly designed modular platform allowing users to replace sections of a damaged platform rather than the whole.



Teupen's new Leo24GT

The Access Platform Company:

Stand 403

The Access Platform Company will exhibit its widest range of low level access equipment to date, including the recently launched five metre Skywinder 300 AT which features large rough terrain tyres and outriggers for outdoor use on challenging terrain. Also on show will be a

range of hand powered lifts including the Quickstep, Powerscissor and Powerlift.

Toucan:

Stand 408/9

See JLG



The new Skywinder 300 AT



Utility Equipment: Stand 101c

As the ATN, France Elévateur and Oil&Steel distributor in the UK and Ireland, Utility Equipment looks like another exhibitor which will have a busy show. New van and chassis mounted platforms from France Elévateur include a 142TPFe with class leading overall length and short rear overhang and the 131F.2 mounted on a 3.5 tonne chassis. New for the UK is the 24 metre 284TBE truck mount on a 3.5 tonne chassis. The company will also have a refurbished scissor lift on show.

Versalift: Stand 208

Time Versalift will launch a number of new platforms at the show as well as a number of improved models. The new 14.3 metre ETM38F joins the ETM van mount range as big brother to the newly improved 13 metre ETM36F which will be unveiled on a 3.5 tonne van chassis. The 24 metre VTX240 is mounted on a 3.5 tonne chassis and the 14.5 metre VT145 mounted on a five tonne van. Finally it will unveil its 13 metre ETL36F on a 3.5 tonne van chassis and a 13.3 metre LAT135H mounted on a 4x4 Isuzu D-Max single cab pick-up chassis. The company also plans to introduce a range of tracked vehicles for the utility market in the near future so don't be surprised to see one or two on the stand. You can also take this chance to meet the new sales team now headed by sales director Andy Bray.

Wumag: Stand 105/6

See Skyking (Palfinger Platforms)

Xtreme: Stand 411

See Snorkel

Youngman: Stand 306/7

See IAPS



Versalift plans to introduce a range of tracked vehicles in the near future.

Cranes and Lifting

AGD Equipment: Stand 501/2

The UK and Ireland distributor for Marchetti and Sennebogen cranes, AGD will feature the new 50 tonne Sennebogen 653E telescopic crawler crane on the stand, as well as a 60 tonne Marchetti MTK60 truck mounted crane which will be making its UK debut. In addition to its sales operation, AGD runs one of the largest crawler crane rental fleets in the country.



The Marchetti MTK60 truck mounted crane which will be making its UK debut.

Artic Crane: Stand 108

See City Lifting

Autoguide Equipment: Stand 300

Autoguide Equipment will exhibit its Terrain Master TC600 pole erecting



The Terrain Master TC600 configured as a pole erection unit



Crowland Cranes will exhibit a range of crane outrigger racks and Power-Pads

unit fitted with an Autoguide 40,000PXV variable speed auger and a new loader crane mounted pole grab. The tracked TC600 has been specifically designed to carry either a nine metre/tonne loader crane, or a 20 metre aerial work platform. The company will also show a range of specialised equipment for the utility market.

Böcker: Stand 103/4

See Kranlyft

Broderson: Stand 612/13

See Tadano UK

Cautrac: Stand 504b

Located in Colchester and Bolton, Cautrac will highlight the advantages of rubber tracks with a Morooka crawler carrier equipped with a PM loader crane. Fitted with a pole carrier, a front mounted winch and a blade system the Morooka utilities support unit offers exceptionally low ground pressure, ideal for boggy or challenging areas.

City Lifting: Stand 108

Comansa flat top tower crane dealer City Lifting will have an eight tonne Comansa 11LC 160 tower crane on show. With a maximum jib length of 65 metres, the crane has a compact slewing platform design, a new trolley system and a semi-automatic trolley cable tensioning system. The company also represents Artic Cranes and its Raptor articulated jib tower cranes, while running an extensive crane rental fleet of fixed and mobile tower cranes and a range of All Terrains.

Cormidi: Stand 312

See GGR

Crowland Cranes: Stand 603

Crowland Cranes, which now sells and services Grove cranes, will exhibit a 40 tonne Grove RT540E Rough Terrain crane and a 20 tonne Yard Boss YB5520-1 industrial crane. The company has a range of other products on display including its Power-Pads outrigger mats and outrigger racks, while highlighting its range of repair and refurbishment services.

Galizia: Stand 312

See GGR

GGR: Stand 312

This year GGR will have a larger display with a number of its Unic spider cranes, including its 10 tonne URW-1006. It will also launch a range of auxiliary products which it hopes will increase the possible applications for spider cranes still further. Other products represented include Cormidi spider cranes and platforms, Galizia industrial cranes, Paus aluminium cranes and Giraf Track cranes and telehandlers. The company is also hinting at one or two other surprises which



Be sure to visit the GGR stand for one or two surprise models...



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part of the Hird group of companies



might include its recently launched hydraulic luffing jib designed for its Unic spider cranes.

Giraf Track: Stand 312

See GGR

Grove: Stand 604/5

See Manitowoc

Hird: Stand 211

Valla Crane and Winlet distributor Hird will have two new Valla pick&carry cranes on its stand this year, with the 12 tonne 120ES and 18 tonne 180ES. Both cranes feature a newly designed five section fully hydraulic boom and a hydraulic jib that luffs to 40 degrees. The cabs have also been modernised and include load systems from 3B6 - another brand it represents. Also expect to see a Winlet glass handling robot.



Hird's Valla 180ES pick&carry crane

Hitachi-Sumitomo: Stand 506

See NRC

Hoeflon: Stand 213

See John Taylor Crane Services

Hook-Up Solutions: Stand 207

Hook-Up will show the production version of its 1.5 tonne Hooka pick&carry crane designed to move bulk building materials. Mounted on a Hinowa tracked chassis and powered by a Honda engine, the ride-along pick&carry can lift loads up to 1.5 tonnes, or one tonne pallets/bags of loose material to a height of 2.65 metres. Weighing 1.25 tonnes it only measures one metre wide.



Hook-Up Solutions' recently launched Hooka pick&carry crane

Jekko: Stand 504

Italian mini crane and spider lift manufacturer Jekko will showcase its 2.7 tonne SPX527 and 1.2 tonne SPX312 spider cranes alongside its two tonne MPK20 pick&carry crane. It will also have a number of its vacuum lifters on show.

John Taylor Crane Services:

Stand 213

As Hoeflon's UK agent, JT Cranes will highlight the new 1.5 tonne C6 compact spider crane. It will once again demonstrate its novel 1.5 tonne D12 tracked carrier as well as launch the D40. Big brother to the D12, the D40 can carry loads up to four tonnes.



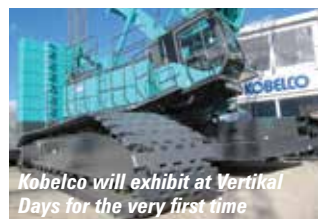
JT Cranes' 1.5 tonne D12 tracked carrier at last year's show

Kato: Stand 103/4

See Kranlyft

Kobelco: Stand 513

Exhibiting at Vertikal Days for the very first time Kobelco Cranes will have a 135 tonne CKE1350G crawler crane on the stand. Offering a maximum combination of 61 metre main boom and 30 metre jib, the G-Series model is fitted with a Stage IIIB (Tier 4i) engine and an auto idle/stop system which the company claims reduces fuel consumption by up to 25 percent.



Kobelco will exhibit at Vertikal Days for the very first time



The Maeda MK1033CW-1 spider crane

Kranlyft: Stand 103/4

European master distributor for Maeda spider and mini cranes, Kranlyft will show the new MK1033CW-1 articulated boom spider crane. Featuring a three section main boom plus a three section articulated jib, the MK1033CW-1 has a maximum lift height of 11.3 metres and working radius of just under 10 metres. The company will also have a range of Böcker aluminium boom truck mounted cranes on show with lifting capabilities of between 800 and 6,000kg.

Liebherr: Stand 606/7

Liebherr will have an impressive range of mobile cranes at the show including the first UK appearance of the five axle 160 tonne LTM 1160-5.2. Also on display will be the six axle 350 tonne LTM 1350, 300 tonne LTM 1300, the 90 tonne LTM 1090, 60 tonne LTM 1060 and the unique 45 tonne LTC 1045 city type All Terrain crane. Completing the line-up will be the 60 tonne LTR 1060 telescopic crawler crane. Visitors will also be able to see demonstrations of the company's Variobase outrigger set-up system as well as a range of its model cranes in the Entrance Marquee.



Vertikal Days will be the first UK showing of Liebherr's new LTM-1160 5.2

Link-Belt: Stand 506

See NRC

Maeda: Stand 103/4

See Kranlyft

Manitex: Stand 101b

See PM Group

Manitowoc: Stand 604/5

The Manitowoc Crane group will exhibit several models from its Grove mobile crane line including

three and five axle GMK All Terrains featuring the new CCS control system with the production version of its Crane Star tracking and remote management system. The Potain tower crane line will be represented by the IGO M14 self-erecting crane, featuring integrated 80km/h fast-tow equipment, built-in generator and counterweight which the company says finally offers a single package tower crane product for easy transportation, erection and use on small sites.

Marchetti: Stand 501/2

See AGD

Morooka: Stand 504b

See Cautrac



NMT will probably have the largest crane on show with its new 700 tonne Terex AC 700

NMT: Stand 511/12

UK crane rental company NMT will show one of the largest cranes on site with its new 700 tonne Terex AC 700 All Terrain crane, complete with the crane's escort vehicle and a new 150 tonne DAF tractor unit and five axle TSR ballast trailer. Alongside will be the company's second Terex Challenger 3180 All Terrain crane.

NRC: Stand 135A

UK Link-Belt and Hitachi crane distributor is going 'green' this year with its all new Tier IV final Hitachi-Sumitomo SCX800A-3. It will also exhibit a Tier IV Link-Belt TCC1100, along with a 50 tonne Linkbelt TCC500, which is making its European debut. To celebrate its green credentials the company has also redesigned its logo.

NRC will be showcase the new Hitachi-Sumitomo SCX800A-3



NRC

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Stand MP8



Wednesday 13th May 2015

| Times | Meetings, Seminars & Workshops | Location |
|---------------|--|---|
| All day | inspHire - Customer 1-2-1s | Newton Stand - Café |
| 10.00 start | CPA Strategic Forum Plant Safety Group 'Outreach Meeting' | Haydock Park - Jubilee Suite (ground floor) |
| 10.30 - 14.30 | IPAF - Manufacturers Technical Committee Update Meeting & FEM MEWP Product Group Meeting | Leverhulme Room 3 |
| 14.30 - 17.30 | IPAF - CAP Meeting | Davies Room 2 |

Thursday 14th May 2015

| Times | Meetings, Seminars & Workshops | Location |
|---------------|--------------------------------|---------------------|
| All day | inspHire - Customer 1-2-1s | Newton Stand - Café |
| 10.00 - 12.00 | IPAF - Rental Plus Meeting | Whittle Suite |

Exhibitor and brand listing

Exhibitors/brands

| | |
|------------------------------|------------------|
| Access Industries | Stand 107 |
| Access Sales International | Stand 401 |
| Aerial and Handling Services | Stand 212 |
| Affordable Access | Stand 101a |
| AGD Equipment | Stand 501/2 |
| Ainscough Training Services | MP15 |
| Airo | Stand 212 |
| Air-Seal Products | MP34 |
| AJ Access Platforms | Stand 203 |
| Alfa Access Services | MP22 |
| Almac | Stand 105/6 |
| AltumaMats | Stand 503 |
| Amber Valley | Stand 614 |
| Andover Trailers | Stand 601 |
| APS | Stand 306/7 |
| Artic Crane | Stand 108 |
| Ascendant Access | Stand 102 |
| ATN | Stand 310 |
| Autoguide Equipment | Stand 300 |
| Avant Tecno | Stand 410 |
| Big Astor | Stand 510a |
| Bizzocchi | Stand 303 |
| Böcker | Stand 103/4 |
| Broderson | Stand 612/13 |
| Bronto Skylift | Stand 100 |
| Carl Stahl Evita | MP17 |
| Cautrac | Stand 504b |
| CEAsia Project Logistics | MP3 |
| CGS Tyres | Stand 505 |
| City Lifting | Stand 108 |
| CM Labs Simulations | MP31/33 |
| CMC | Stand 201 |
| Co.Me.t | Stand 101a |
| Continental Tyres | Stand 505 |
| Cormidi | Stand 312 |
| CPA | Stand 508 |
| Cranesafe | MP27 |
| Crowland Cranes | Stand 603 |
| Crown Batteries | MP25 |
| CTE UK | Stand 303 |
| Cumberland Platforms | Stand 407 |
| Custom Equipment | Stand 403b |
| De Lage Landen Leasing | MP20 |
| Dingli | Stand 101d |
| Dinolift | Stand 411a |
| Double Coin Tyres | Stand 206 |
| Easylift | Stand 105/6 |
| elebia | MP6 |
| Facelift | Stand 102 |
| Falcon | Stand 404 |
| Faraone | Stand 308 |
| Faresin | Stand 101d |
| Five Arrow Business Finance | MP39 |
| France Elévateur | Stand 101c |
| Galizia | Stand 312 |
| Gehl | Stand 205 |
| Genie | Stand 608 |
| Genius | Stand 510a |
| GGR | Stand 312 |
| Giraf Track | Stand 312 |
| Glasboy | Stand 312 |
| Goldhofer | Stand 601 |
| Ground-Guards | Stand 503 |
| Grove | Stand 604/5 |
| GSR | Stand 105/6 |
| HEMS | Entrance Marquee |
| Higher Concept Software | MP8 |
| Hinowa UK | Stand 305 |
| Hird | Stand 211 |
| Hitachi-Sumitomo | Stand 506 |
| Hoeflon | Stand 213 |
| Holland Lift | Stand 203 |
| Hook-Up Solutions | Stand 207 |
| HY-Brid Access Platforms | Stand 403b |
| IAPS Group | Stand 306/7 |
| Imer | Stand 407 |
| inspHire | MP28 |
| Interpump Hydraulics UK | MP2 |
| IP Forktrucks | |
| IPAF | Stand 101f |
| IPS | Stand 306/7 |
| Isoli | Stand 306/7 |
| Iteco | Stand 407 |
| James Troop & Co | MP26 |
| JCB | Stand 406 |
| Jekko | Stand 504 |
| JLG | Stand 408/9 |
| John Taylor Crane Services | Stand 213 |
| KAM Trading | Stand 101d |
| Kato | Stand 103/4 |
| KFS Special Vehicles | Stand 600 |
| King Trailers | Stand 105/6 |
| Kirkby Tyres | Stand 206 |
| Kobelco | Stand 513 |
| Kranlyft | Stand 103/4 |
| LEEA | MP12 |
| Leguan | Stand 410 |
| Liebherr Training Services | MP29 |
| Liebherr | Stand 606/7 |

| | |
|---------------------------------|--------------|
| Lifting Gear UK | Stand 611 |
| Liftlux | Stand 408/9 |
| Link-Belt | Stand 506 |
| Load Systems UK | Stand 509b |
| Maeda | Stand 103/4 |
| Magna Tyres | Stand 507 |
| Magnetek | MP11 |
| Manbat | MP32 |
| Manitex | Stand 101b |
| Manitou | Stand 205 |
| Manitowoc | Stand 604/5 |
| Manotti | Stand 101d |
| Marchetti | Stand 501/2 |
| MarketBook | MP30 |
| MEC | Stand 202 |
| Mentor Training | MP10 |
| Michelin Tyres | Stand 210 |
| Millennium Personnel Services | MP37 |
| Mitas Tyres | Stand 505 |
| Morooka | Stand 504b |
| Multitel Pagliero | Stand 107 |
| My Future My Choice | Newton Stand |
| Myerscough College | MP38 |
| Nationwide Platforms | Stand 400 |
| Niftylift | Stand 301/2 |
| NMT | Stand 511/12 |
| Nolim | Stand 510 |
| Nooteboom | Stand 101e |
| NRC | Stand 135A |
| Oadby Plastics | MP23/4 |
| Oil&Steel | Stand 101b |
| Ommelift | Stand 306/7 |
| Orlaco | Stand MP27 |
| Ormig | Stand 603 |
| OTR Wheel Engineering | MP13/4 |
| Palfinger Platforms | Stand 105/6 |
| Paus | Stand 312 |
| Platform Basket | Stand 209 |
| Platinum Batteries | MP5 |
| PM Group | Stand 101b |
| Pop-Up Products | Stand 411 |
| Potain | Stand 604/5 |
| Power Jacks | MP7 |
| Power Scissor | Stand 403 |
| Power Towers | Stand 304 |
| Power-Pads | Stand 603 |
| Probst Handling Equipment | Stand 200 |
| Promax Access | Stand 209 |
| PSR | Stand 306/7 |
| QWheels | Stand MP19 |
| Ranger Equipment | Stand 201 |
| Rayco-Wylie Systems | MP10a |
| Red Plant | Stand MP6 |
| ReechCraft | Stand 403 |
| Reedyk Compact Cranes | Stand 209 |
| Ritchie Bros Auctioneers | Stand MP1 |
| Ruthmann | Stand 401 |
| Safetyliftinggear | Stand 509a |
| Sanctuary Zone | Stand 212 |
| Sennebogen | Stand 501/2 |
| Shawtrack Services | Stand 402 |
| Shield Batteries | Stand MP25 |
| Skyaces | Stand 105/6 |
| Skyjack | Stand 412 |
| Skyking | Stand 105/6 |
| Snorkel | Stand 411 |
| Socage | Stand 407 |
| Society of Operations Engineers | MP4 |
| Solum Europe | MP35 |
| Speedy Services | Stand 204 |
| Speedy Training | MP18 |
| Spiderlift | Stand 201 |
| Spierings | Stand 602 |
| Sumner Lift | Stand 311 |
| Syrinx | Stand MP8 |
| Tadano UK | Stand 612/3 |
| TCA Lift | Stand 404 |
| Tecnomagnetete | MP17 |
| Terex Cranes | Stand 609/10 |
| Terex Utilities | Stand 407 |
| Teupen | Stand 309 |
| The Access Platform Company | Stand 403a |
| The Lighthouse Club | |
| The Tackle Store | Stand 509a |
| Timbermat | Stand 413 |
| TMC Lifting Supplies | Stand 603 |
| Top Service | Stand MP16 |
| Toucan | Stand 408/9 |
| Trackunit | Stand MP9 |
| Trelleborg | Stand 206 |
| Trojan Battery | MP5 |
| TVH UK | Stand 134 |
| Unic | Stand 312 |
| UniMat | Stand 500 |
| Universal Crane Mats | Stand 500 |
| US Battery | MP32 |
| Utility Equipment | Stand 101c |
| Valla | Stand 211 |
| Versalift | Stand 208 |
| Vertikal Press | Marketplace |
| Wienold | Stand 306/7 |
| Winlet | Stand 211 |
| Wumag | Stand 105/6 |
| Xtreme | Stand 411 |
| Youngman | Stand 306/7 |
| Zoomlion | Stand 603 |

Vertikal days



Lunch
12.30-14.30

RACE COURSE

MARKETPLACE

- Ainscough Training
- Air-Seal Products
- Alfa Access Services
- Bronto Skylift (simulator)
- Carl Stahl Evita
- CEAsia Project Logistics
- CM Labs Simulations
- Cranesafe
- De Lage Landen Leasing
- Five Arrows Business Finance
- Higher Concept Software
- inspire
- Interpump Hydraulics UK
- James Troop & Co
- Liebherr Training
- LEEA
- Magnetek
- Manbat
- MarketBook
- Mentor Training
- Millennium Personnel Services
- Myerscough College
- Oadby Plastics
- OTR Wheel Engineering
- Platinum Batteries
- Power Jacks
- QWheels
- Rayco-Wylie Systems
- Red Plant
- Ritchie Bros
- Shield Batteries
- Society of Operations Engineers
- Solum Europe
- Speedy Training
- Top Service
- Trackunit

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KEY

- ACCESS
- CRANES
- TELEHANDLERS
- COMPONENTS/ELECTRONICS/OTHER

Bronto 100

Affordable Access 101a

PM Group 101b

Utility Equipment 101c

KAM Trading Faresin/Dingli/Manotti 101d

Nooteboom 101e

IPAF 101f

Ascendant Access 102

Kranlyft 103-104

Skyking 105-106

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ENTRANCE

CAR PARK



Other Exhibitors – Service, Safety, Training Electronics & Components etc...

This year the event has more providers of ancillary products and services than ever before, many of them located in the expanded Marketplace. While visiting the stands of equipment manufacturers is of course highly important, do not miss the opportunity to check out the wide range of tyre, outrigger mats, temporary roadways, software, training, and safety equipment suppliers. This might mean a second day at the show or bringing along a colleague to make sure that you do not miss out on making a contact that could significantly help your business.

Ormig: Stand 603
See Crowland Cranes

Paus: Stand 312
See GGR

PM Group: Stand 101b

The PM Group is now part of Manitex, which includes PM loader cranes, Oil&Steel truck and spider mounted lifts, Valla, Ferraris port equipment and Load King heavy duty fork trucks. On the stand will be a new DAF CF510 FAX super space 8x2 truck fitted with the new PM53025 Platinum Crane with 13.8 metres outreach lifting 3,070kg. Alongside you will find a PM65026



PM's PM53025 Platinum Crane mounted on a new DAF CF510 FAX 8x2 chassis

with a maximum outreach of 15.30 metres and lift capacity of 3,270kg.

Potain: Stand 604/5
See Manitowoc

Reedyk Compact Cranes:
Stand 209
See Promax

Sennebogen: Stand 501/2
See AGD

Spierings: Stand 602

Spierings will feature two self-erecting mobile tower cranes this year - its five axle SK599-AT5, which can lift 1,900kg to a radius of 50 metres at a maximum height of 56.3 metres as well as its six axle SK1265-AT6. Fitted with a Euro 6/ Tier IV engine, the SK1265 can lift 1,700kg to a radius of 60 metres



Spierings will have two self-erecting mobile tower cranes on its stand this year

at a maximum hook height of 64.2 metres.

Tadano UK: Stand 612/3

Tadano will have five models from its ATF All Terrain crane range on its stand which currently has lifting capacities ranging from 40 to 400 tonnes. Two new cranes making their worldwide exhibition debut are the 70 tonne four axle ATF 70G-4 and the 100 tonne four axle ATF100G-4 which is powered by a Euromot 4 engine. You might also ask the company for more details on its new flagship ATF crane, which will be unveiled next month.

Terex Cranes: Stand 609/10

Terex will show its 220 tonne five axle Explorer 5800 All Terrain crane, which it claims is the strongest and most compact All Terrain crane in its class. Joining it this year will be a six axle 350 tonne AC350-6, a 100 tonne four axle AC100/4L and a 60 tonne three axle Challenger 3180. Staff will also be on hand to discuss the company's service, support and finance offerings.

Unic: Stand 312
See GGR

Valla: Stand 211
See Hird

Zoomlion: Stand 603
See Crowland Cranes



A 220 tonne Terex Explorer 5800



Ainscough Training Services provides a range of training for lifting operations



Tadano's 70 tonne ATF 70G-4 All Terrain crane

Air-Seal Products: MP34

Air-Seal's range of tyre sealants can prevent up to 95 percent of all punctures up to 30mm and claims to stop all rim, bead and other slow air leaks. Suitable for a wide range of equipment including cranes and telehandlers, a single treatment can cost less than one tyre repair and reportedly lasts the legal life of the tyre.

Alfa Access Services: MP22

Established in 2009, Alfa Access Services specialises in the repair, service, training and LOLER inspection of aerial work platforms as well as bespoke installations. It is also the UK service partner for Teupen providing original spare parts, training and technical backup.



Alfa's fully-equipped vans allow it to provide its services throughout in the UK.

AlturnaMats: Stand 503

See *Ground-Guards*

Amber Valley: Stand 614

Vehicle safety equipment manufacturer Amber Valley will have a range of new devices on show including secondary guarding warning alarms, the GreenEyes seatbelt monitoring system and its own Blue Alarmlight and Overloader Alarmlight systems. It will also have a range of newly designed LED striplights which are available in varying sizes.

Andover Trailers: Stand 601

Andover Trailers provides bespoke transport solutions for the access, lifting and construction equipment industries. As such, it will be exhibiting its latest rigid plant body and sloping semi-trailer range along with a range of safety and securing equipment. As the UK distributor for Goldhofer Trailers it will also exhibit an extending four axle, power-steered step-frame trailer.



An 18 tonne access body from Andover Trailers

Bronto Skylift (simulator):

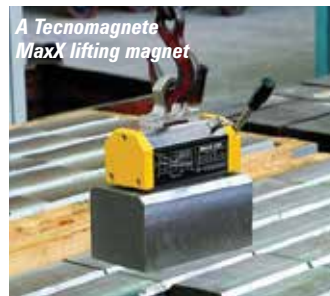
MP36

Bronto can also be found in the Marketplace this year where it

will be launching its 'Office in the Sky' simulator challenge. Scheduled to tour the UK following the show, all operators are welcome to enter the competition, with the winner being awarded a trip to Bronto's production facility in Tampere, Finland.

Carl Stahl Evita: MP17

UK lifting and hoisting equipment specialist Carl Stahl Evita will display the latest permanent lifting magnets from Tecnomagnete which have lifting capacities of between 125kg and two tonnes.



A Tecnomagnete MaxX lifting magnet

CEAsia Project Logistics:

MP3

CEA offers a range of transportation, shipping and project logistics services throughout Southeast Asia. It also has a range of six CEA Surelift modular spreader beams which have lifting capacities from 50 to 400 tonnes.

CGS Tyres: Stand 505

See *Mitas Tyres*

CM Labs Simulations: MP31/33

Making its show debut, virtual simulation specialist CM Labs will have two highly sophisticated training simulators set up in the Marketplace. The first is designed for training on crane and heavy equipment and features five display screens, a motion platform and real machine controls and joysticks. The second is its desktop-sized Vortex Trainer crane and heavy equipment simulator which typically comes with one HD flat panel display, a touch screen for the equipment LMI and controls, and joysticks.



CM Labs will have two training simulators providing virtual crane, tower crane and excavator training

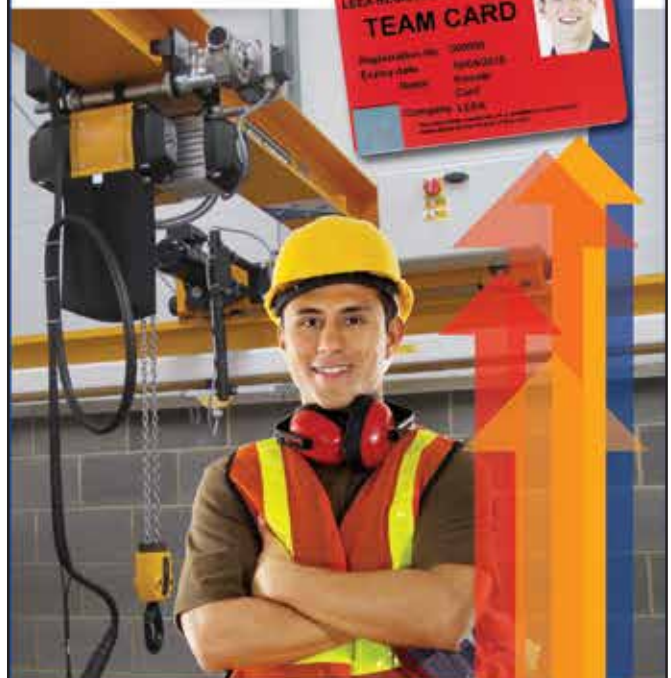


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Continental Tyres: Stand 505

See *Mitas Tyres*

CPA: Stand 508

The Construction Plant-hire Association helps members with issues including employee health and safety, machinery standards and emission control, skills and employment. It will also hold its Strategic Forum Plant Safety Group Outreach Meeting on the first day to discuss operator competence, medical fitness, the public health responsibility deal, telehandlers and suspended loads, and the recently published guidance on ground conditions.

Cranesafe: MP27

Tower crane anti-collision specialist Cranesafe - part of the SMIE group - will display a range of anemometers, wind speed alarms and Orloco hook-view/winch-view crane cameras. The company will also demonstrate the latest version of its ProSite crane management system which now incorporates a 3D aspect.

Crown Batteries: MP25

See *Shield Batteries*

De Lage Landen Leasing: MP20

International asset finance provider De Lage Landen will have specialists on hand to discuss tailored financial solutions for equipment manufacturers, dealers and distributors as well as special solutions for rental companies.

Double Coin Tyres: Stand 206

See *Kirkby Tyres*

elebia: MP6

See *Red Plant*

Five Arrows Business Finance:

MP39

Asset based finance and invoice solutions company Five Arrows Business Finance (FABF) - part of the Rothschild Group - provides short-term financing to complete funding packages for the entire spectrum of public and private limited companies, partnerships and

sole traders. As well as providing finance for the purchase of new assets or refinancing assets to generate additional cash flow it offers commercial finance solutions for mergers and acquisitions, MBOs and Management Buy Ins (MBIs) for mid-market to larger businesses.

Glasboy: Stand 312

See *GGR*

Goldhofer: Stand 601

See *Andover Trailers*

Ground-Guards: Stand 503

Ground-Guards will use Vertikal Days to launch its MaxiTrack temporary roadway system on the UK market. This latest addition to its range of plastic ground protection systems combines extra heavy duty strength, with a special lightweight design that enables them to be easily handled. Weighing just 1kg more than its standard Ground-Guards, the company claims the MaxiTrack are twice as thick and three times as rigid. The company is also supporting the event by providing all of the ground mats for the show.

HEMS: Entrance Marquee

Heavy Equipment Model Show (HEMS) will have a collection of miniature crane, heavy haulage and construction equipment models on display in the Entrance Marquee and will be promoting its show, which is being held in Blackburn on 26th October.

Higher Concept Software: MP8

Rental management software producer Higher Concept will showcase its Syrinx technology and its latest features which include PDA access, Android driver app, Bi-Dashboard, customer extranet and its innovative field sales tablet applications. It will also offer complimentary one-to-one training sessions for Syrinx customers attending the show.

inspHire: MP28

inspHire will demonstrate its rental software solutions, including the

enhancements to its inspHire Mobile which allows users to add parts, capture engineers signatures, record the time a job was completed, add labour costs and notes to workshop jobs directly from an Android device as well as complete LOLER examinations. Be sure to visit the stand for a free tailored demonstration on its hire software and mobile solutions.

Interpump Hydraulics UK: MP2

Making its Vertikal Days debut, Interpump Hydraulics UK offers a wide range of hydraulic and mechanical components, including power take-offs, hydraulic pumps, directional control valves, split shafts and power packs. The company also supports a range of Interpump Hydraulics brands including Hydrocar, Muncie, Galtech, Hydroven, Panni and IMM.

IPAF: Stand 101f

IPAF's focus this year will be on its new eLearning courses. Visit the stand to learn more about the course and the benefits of remote eLearning for both operators and managers. The federation will also be demonstrating the new practical test from the IPAF Operator course.

IPS: Stand 306/7

See *IAPS*

James Troop & Co: MP26

Based in Runcorn, UK, James Troop is a family-run company that specialises in diesel engines, supplying new engines, parts, servicing and repairs for a wide range of market sectors. Its franchises include Deutz, Volvo Penta, MTU and MAN.

KFS Special Vehicles: Stand 600

Low loader vehicle specialist KFS will exhibit its latest Plant & Go transporter aimed at construction equipment rental companies. Mounted to a 3.5 tonne van chassis, the Plant & Go removes the need for a trailer and provides a low floor height of 530mm, ribbed aluminium floor for grip and two metre aluminium ramps as standard. Drop sides and a full tail gate are also available.



The latest KFS Plant & Go transporter

King Trailers: Stand 105/6

Sister company to Skyking, King Trailers offers a wide range of specialist equipment, general plant trailers and truck bodies to standard

or custom build specifications.

Kirkby Tyres: Stand 206

The UK distributor for Alliance, BKT, Double Coin, Longmarch, Malhotra, Sailun and Trelleborg, Kirkby Tyres is one of the UK and Ireland's leading suppliers of tyres and wheels. The company also offers bespoke wheel manufacturing solutions and off-the-shelf factory finished wheels.

LEEA: MP12

The UK-based Lifting Equipment Engineers Association (LEEA) is seeing the continued geographic spread and distribution of its authoritative Code of Practice for the Safe Use of Lifting Equipment (COPSULE) and range of training courses, delivered by its member companies. It will highlight these along with the latest edition of its User's Pocket Guide and 'TEAM card' registration scheme for qualified technicians.

Liebherr Training Services:

MP29

Liebherr's UK training division offers qualifications, assessments and training for a wide range of skills, including appointed person, crane supervisor, slinger & signaller, crane operator, aerial work platforms, LICCON planner, the influence of wind on lifting operations and NVQs in relevant disciplines. It also offers training on Liebherr's new mobile crane VarioBase system.



Liebherr offers training on its new mobile cranes VarioBase system

Lifting Gear UK: Stand 611

Lifting and handling rigging equipment specialist Lifting Gear UK provides a wide range of heavy lifting equipment for hire or sale as well as providing LOLER inspections and certification services. The company also has a lifting projects division which specialises in contract lift work and heavy lifting equipment.

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Load Systems UK: Stand 509b

The latest products from the UK division of Load Systems International includes its range of wireless under hook load cells which can be used with the load cell communicator software to provide real time readings from a PC. Also on display will be the company's RCI-8510 rated capacity limiter and crane control which is ideal for both original equipment manufacturers and easy retrofitting.



Load Systems' RCI-8510 manages all aspects of the crane and has an extensive load chart memory.

Magna Tyres: Stand 507

Another company making its Vertikal Days debut, Magna Tyres will promote its specially developed crane tyre - the Magna MA03. Available in 385/95R24, 385/95R25, 445/95R25 and 525/80R25 tyre sizes, Terex has been using the MA03 tyre on its All Terrain cranes since 2010.



Magna tyres being used on a Terex All Terrain crane

Magnetek: MP11

Magnetek will exhibit its full line of wireless controls for lifting equipment including its Flex Pro proportional control transmitter and its new line of 'mini' wireless controls.



Magnetek's new mini-PGT transmitter.

Manbat: MP32

Battery distributor Manbat will launch US Battery's XC2 range of six-volt and 12-volt batteries to the UK market. Specifically designed for deep cycle applications such as aerial lifts, the new range incorporates synthetic tetrabasic lead sulphate (TTBLS) into the production of its plates and benefits from a uniformly fine crystal plate structure, which the company



Manbat will launch US Battery's XC2 range of batteries to the UK market.

claims delivers enhanced battery performance, better charging capacity and more durable characteristics.

MarketBook: MP30

MarketBook is the online destination for truck, farm and heavy equipment buyers and sellers. Stop by the stand to preview its website and pick up a free publication!

Mentor Training: MP10

As one of the UK's leading training providers Mentor Training delivers IPAF, PASMA and ALLMI accredited courses, either from its centres or from customers/delegates own premises. Visit the stand to discover the benefits of onsite accredited operator training courses.

Michelin Tyres: Stand 210

Michelin will show its range of crane tyres, including its X Crane+ 525/80 R 25 and X Crane+ 445/95 R 25 tyres.

Millennium Personnel Services: MP37

MPS is one of the largest crane

operator and lifting personnel recruitment specialists in the UK. With a database of more than 8,000 crane operators, it finds jobs for hundreds of its operators every week.

Mitas Tyres: Stand 505

Mitas Tyres is the sole manufacturer of Mitas, Continental and Cultor branded tyres. Visit the stand to find out more on the Mitas CR-01 All Terrain crane tyre which it says provides high speed capabilities of up to 85km/h, excellent traction and grip as well as restricting tread movement/shuffle. The tread is also regrooveable, offering extended tyre life and lower costs.

Myerscough College: MP38

Myerscough has a specialist engineering department that runs dedicated courses for crane, access and general plant service engineers.

My Future My Choice:

Newton Stand

My Future My Choice works with school children to show them the possibilities of a career in engineering. Sponsored this year by Liebherr, it will set up in the Newton Stand organising several workshops for local school children in order to help ignite an interest at an early age. As part the workshop it will take the children on a guided tour of the show exploring the principles of pneumatics, hydraulics, gears and pulleys. Keep an eye out for what might be the future of crane, access and telehandler people!

Nolim: Stand 510

Founded in 2007 Nolim provides a wide range of outrigger pads and mats made from a lightweight and high-quality plastic - HMPE-500R (High Molecular Poly Ethylene) - which are suitable for cranes and aerial lifts. It also offers several methods of stowing outrigger pads which can be bolted to a vehicle chassis.



As well as offering outrigger pads and mats Nolim also offers stainless steel holsters



Nootboom's three axle exMCOS-48-03(EB) step frame trailer.

Nootboom: Stand 101e

Dutch transport trailer manufacturer Nootboom will exhibit its three axle exMCOS-48-03(EB) power-steered step frame trailer. Its many features include a hydraulic raising platform, manual override steering and flip-toe hydraulic rear loading ramps.

Oadby Plastics: MP23/4

Oadby Plastics will introduce its new range of Crane Pads and mats, cable sheaves and track plates. The company also offers one of the largest plastic machining facilities dedicated to bespoke CNC routing, milling turning and fabrication.



Oadby will introduce its new range of Crane Pads.



Orlaco: Stand MP27

You can see the latest from the boom nose camera manufacturer on the Cranesafe stand.

OTR Wheel Engineering:

MP13/4

OTR Wheel Engineering designs, manufactures and supplies a wide range of wheels and tyres for all kinds of industrial and construction machinery. The company also has a service exchange programme for replacement wheels, tyres and fill.



Platinum Batteries is the UK distributor for Trojan Battery

Platinum Batteries: MP5

Platinum Batteries is the exclusive master distributor for Trojan Battery in the UK. Its services include next day nationwide delivery, guaranteed availability, no minimum order quantity or delivery charges and full technical support and field sales support.

Power Jacks: MP7

British electro-mechanical lifting positioning and load monitoring solutions manufacturer Power



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working in the construction or off-shore sectors including overload systems and load monitoring indicators.

Red Plant: Stand MP6

Red Plant will once again set up in the Marketplace with its range of elesia automatic crane hooks, allowing operators to remotely attach and release a load without needing to handle rigging to release or connect the load or climb onto a truck bed. The hook is available in three sizes capable of lifting five, 10 or 20 tonnes and recently the company had been working on incorporating load scales into the hooks.

Ritchie Bros Auctioneers:

Stand MP1

Last year Ritchie Bros sold more than \$4.2 billion worth of equipment at 349 auctions throughout the world. Its next UK auction is scheduled for July 14th from its site in Donington Park. Anyone looking to buy or sell equipment should definitely stop by and have a chat.

Safetyliftinggear: Stand 509a

Safetyliftinggear provides an extensive range of lifting, fall protection, material handling and

Jacks will showcase its latest load cells, load pin shackles and winch monitoring systems.

Power Jacks will showcase its latest load cells, load pin shackles and winch monitoring systems



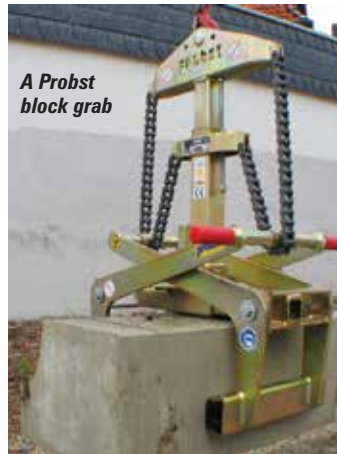
Power-Pads: Stand 603

See Crowland Cranes

Probst Handling Equipment:

Stand 200

Probst has been a supplier of



A Probst block grab

materials handling equipment within the UK for 30 years. On its stand this year will be a range of both vacuum and mechanical kerb lifters which eliminate bad manual handling practices while helping contractors work to the latest health and safety regulations.

PSR: Stand 306/7

See IAPS

QWheels: Stand MP19

QW Wheels for Lifting and Access, a division of UK-based wheel manufacturer QWheels, offers a wheel refurbishment programme for old wheels which recovers them in new polyurethane. Able to provide a number of different tread patterns, the centre of the wheels can also be painted in a choice of colours and styles.

Rayco-Wylie Systems: MP10a

Safety systems and sensors manufacturer Rayco-Wylie provides solutions for all types of cranes

Safetyliftinggear will have a number of new products including a battery powered electric chain hoist.



A selection of QW's refurbished polyurethane coated wheels

Ritchie Bros has more than 40 auction locations around the world





Niftylift will be out in force

load restraint products as well as full after sales service including inspection, testing and repair. As well as offering its G-Force, LiftinGear, Strap-on and Loadsurfer brands, the company is also the master distributor for Elephant hoists, Force Chain, Boscaro Site Handling and Lifting Equipment.

Sanctuary Zone: Stand 212

See Aerial and Handling Services

Shawtrack Services: Stand 402

UK custom truck bed manufacturer Shawtrack will exhibit its latest type approved, beavertail body designs, mounted on both 7.5 and 26 tonne chassis. In the past couple of years, the company has gone through a number of changes, selling its rental fleet and completely changing its management team - so definitely worth a visit to find out what the company is up to.

Shield Batteries: Stand MP25

Shield Batteries is the UK importer for Crown deep cycle batteries which are proving increasingly popular with aerial lift manufacturers and fleet owners. Crown has invested heavily to add value to its deep cycle batteries with features



Crown batteries are proving increasingly popular with aerial lift manufacturers.

such as thicker plates, more headroom for electrolyte and built-in Pro Eye to monitor levels. Shield has been targeting the replacement market for aerial lifts for several years and is happy to demonstrate the benefits of its service.

SOE: MP4

The Society of Operations Engineers (SOE) works to advance operations engineering through education, training, study and research. Through its professional sectors of IRTE, IPlantE and BES, SOE has a direct influence on the road transport, plant and engineer surveying sectors, developing best practice and improving compliance across the board.



Shawtrack beavertail body mounted on a 26 tonne Mercedes chassis

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Used in a number of different arrangements Solum's crane outrigger pads can spread loads of up to 100 tonnes.

Solum Europe: MP35

Solum is exhibiting its innovative temporary foundation and crane outrigger mats, which have been designed to deliver the perfect balance between strength and weight. Available in a range of sizes they can be used in a number of arrangements to spread up to 100 tonnes of load pressure.

Speedy Training: MP18

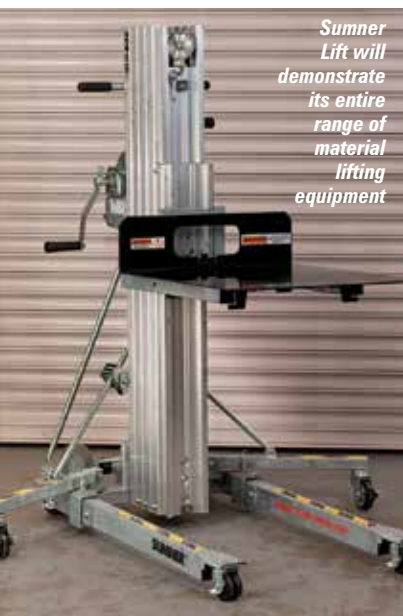
With over 100 experienced trainers at more than 200 locations nationwide the training division of IPAF and PASMA operator, safety and skills courses. Stop by its stand in the Marketplace and have a chat.

Sumner Lift: Stand 311

Returning to Vertikal Days, Sumner Lift has moved to the outside area to demonstrate its entire range of steel and aluminium material lifting equipment and portable aluminium gantries, as well as a new prototype counterbalance material lift, which is currently being assembled in the UK.

Syrinx: Stand MP8

See Higher Concept Software



Sumner Lift will demonstrate its entire range of material lifting equipment

TMC Lifting Supplies: Stand 603

See Crowland Cranes

Tecnomagnete : MP17

See Carl Stahl Evita

The Lighthouse Club:

The Lighthouse Club is a charity that provides support for construction workers and their families. Collection boxes for donations can be found in the Entrance Marquee and on the TVH stand.

The Tackle Store: Stand 509a

See Safety/liftinggear

Timbermat: Stand 413

Timbermat will exhibit its range of temporary roadways and walkway solutions at the show. These include Timbermat hardwood and Ekki tropical bog mats, heavy duty crane mats and outriggers, and Emtek timber mats which provide certified loading and deflection calculations.

Top Service: Stand MP16

Credit information provider specialist Top Service operates the most extensive credit checking system in the construction and equipment related industries. Members provide unique input on slow payers, which offers a unique background to a potential customer in comparison with the



Timbermat will have a range of temporary access solutions including a number of tropical Ekki hardwood mats



The company will offer free credit information and credit control advice at the show. Be sure to stop by if you have any questions on credit information, company and director monitoring, chasing letters, debt recovery, pre-litigation and all services relating to credit control.

Trackunit: Stand MP9

Last year Danish fleet management system and telematics provider Trackunit opened its first UK branch in Reading. The company will return to Vertikal Days with two solutions suited for access platforms, towers and cranes with its SmartID and DualID. Compatible with IPAF Smart cards or with unique PIN codes, the software can help eliminate untrained operation by only allowing use depending on level of training received.

Trelleborg: Stand 206

See Kirkby Tyres

Trojan Battery: MP5

See Platinum Batteries

TVH UK: Stand 134

TVH has been active in the UK for 25 years, offering a wide selection of replacement parts, products, services and accessories to the telehandler, aerial work platform and agricultural sectors. Its specialist powered access business has been growing at a rapid pace in recent years as it invests additional

TVH will hold a raffle for the chance to win a child's Linde forklift.



resources in the sector. It plans to hold a business card raffle at the show for the chance to win a child's Linde forklift. It will also have a range of parts and will introduce customers to its recent MyTotalSource program that is available 24/7.

US Battery: MP32

See Manbat

Vertikal Press:

Marketplace

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



Wienold: Stand 306/7

See IAPS

Winlet: Stand 211

See Hird



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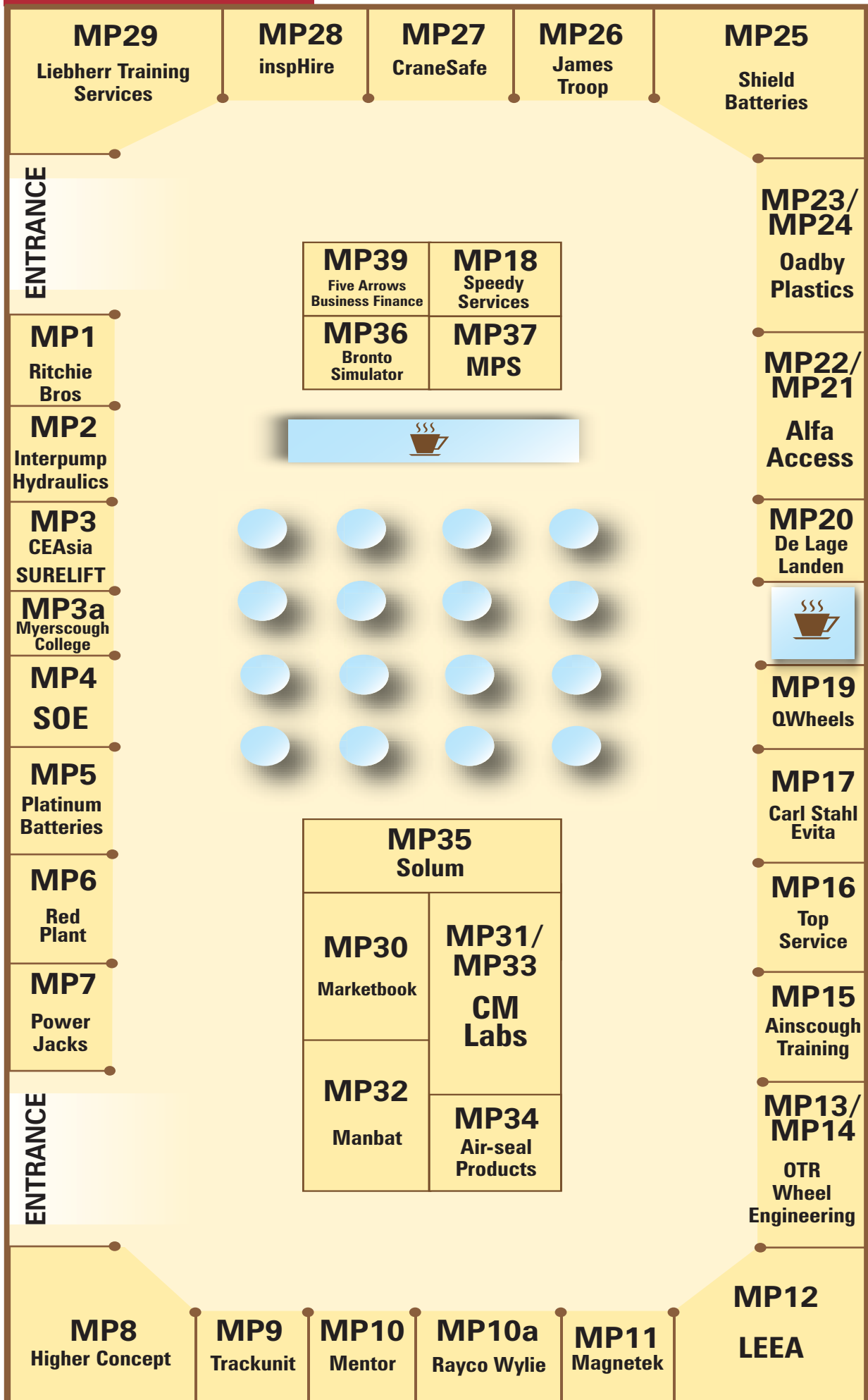
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Summit in DC

This year's IPAF Summit was held in Washington DC close to the Pentagon, the second time it has been held in the USA since 2013. While the number of delegates attending was substantially down on last year's meetings in Windsor, the event was well organised and the content of the presentations to a high standard, with some very stimulating and informative content.



Andy Studdert of NES Rentals takes over the IPAF presidency from Steve Couling

What started out as a short AGM and networking lunch has now almost blossomed into a two day event which kicked off on Tuesday night with a two hour networking session at the National Press Club, a prestigious venue close the White House. Time however was a little short, especially given how far many had travelled, and how many people attending had never met before. Most would have benefited from another hour or so.

The Annual General Meeting next morning was surprisingly well attended although the number of full members entitled to vote seemed to be a little thin on the ground. The accounts were approved, while Andy Studdert of NES Rentals was elected as the new president, taking over from Steve Couling who had completed his two year term. Nick Selley of AFI took over from Studdert as deputy president and Brad Boehler of Skyjack assumed Selley's position as vice president. All positions were unopposed.

Couling spoke on the achievements in 2014, which included the

recruitment of 72 new members, taking the current total to 1,109, and a 7.9 percent increase in the number of people trained to 137,429 a new record. He also reminded those present that when he started his two year term one of the aims was to increase the federation's focus on its original objectives and principles. The re-incorporation of those objectives is, he hopes, just the start. Other business included the adoption of the accounts for 2014, which show a 9.4 percent increase in both revenues - to £4.65 million - and profit margin/surplus - to £149,500. Cash reserves also increased 9.5 percent to £530,600. The accounts were approved unopposed.

The AGM was followed by the Summit, with presentations covering a variety of safety and technical issues. Particular highlights included Frank Nerenhausen of JLG with a talk entitled 'Gimmicks or the next reality'. His presentation was not only stimulating, but also exceptionally well researched and illustrated. He raised three key areas where technology might play a significant role with powered access.

Wearables - including a hi-viz vest with built in harness and an embedded RFID chip that automatically communicates with the machine, identifying the operator, his level of training and approval to use the machine, as well as obliging him to attach his lanyard and all before the machine will start. Proximity devices built into the vest would also warn him of overhead obstacles or the presence of power lines, cutting the machine out if



The networking event



The Summit

the warning is not heeded. A GPS transmitter within the vest would keep a live record of who is on site and where, while warning drivers of any workers to look out for, while the wearer would be warned to look out for an approaching machine.

Head up displays built into safety glasses and/or a helmet, providing all manner of data, starting with the pre-use checks - a simple glance at hydraulic and fuel reservoirs for example would show their precise levels, etc. They might

also include a GPS device, allowing the operator to map an obstacle found in his pre use ground check, such as a kerb, the machine would then automatically avoid it should the operator forget.

Finally he referred to the adoption of platform or boom mounted robotics allowing work to be carried out from the ground, eliminating human work at height entirely.

Stefan Ponea of Industrial Access, Romania, gave a fascinating insight into gangs of thieves and fraudulent





Brad Boehler wanted to give the Americans a scare with "the British are coming"

transactions in a market where there is little respect for the rule of law. The solution includes training staff to use their instincts, greater checks and telematics technology that alerts the team to theft within the first hour of an irregular movement. He also relayed how he tracked down a team of international criminals from Ireland and managed to recover his equipment.

Norty Turner of Riwal not only provided a candid presentation of the challenges involved with opening rental operations overseas, especially in the developing world, but did so in a theatrical and

entertaining manner that captivated the audience at a time when they might otherwise have been ready to doze.

Jordan Barab, deputy assistant secretary of Labor and second in command at OSHA, updated delegates on the organisation's efforts to reduce work place injuries and fatalities. Around 13 workplace fatalities occur every day of the year in the USA. This has dropped from 10 deaths per 100,000 in 1974 to 3.4 today, there is still a long way to go and increased economic activity has raised the death toll in the past year. Recent initiatives have included the reinstatement of a requirement for fall protection on residential construction and the new requirement for companies to report all employee hospitalisations.

He also pointed out how workplace accidents lead to inequality, as contrary to most people's perception, around half the cost of an injury is borne by the employee himself and secondly the state, while Workers Compensation schemes only cover around 11 percent of the cost. The state is effectively subsidising companies that are not properly protecting their employees, while injured employees take a hit to their finances.



The vehicle mounted product of the year went to Palfinger's P480 truck mount



Tim Whiteman with lifetime achievement award winner Ray Smith and Alastair Robertson

And the winner is:



All motions were carried unopposed

After the Summit it was on to the awards dinner. Hosted this year by comedian Sean Collins - who not only had everyone laughing but also maintained audience attention through the fairly long awards presentations.

This year's winners were:

- **IPAF Training Instructor of the Year** - Hansen Ng of BS Technology, Singapore
- **IPAF Training Centre of the Year** - A-Plant in the UK
- **Access Photograph of the Year** - Jonathan Till of GT Access in the UK
- **Product of the Year - Low Level Access** - Faraone of Italy for the Elevah 40 Move
- **Product of the Year Mast Climbing Work Platforms/Hoists** - Maber of Italy for the MB A 2000/150
- **Product of the Year Vehicle Mounted** - Palfinger Platforms for the 48 metre P480
- **Product of the Year Self-Propelled** - Holland Lift for the 27 metre Hybrid HL275 H25 4WD/P/N
- **Outstanding Customer Service** - NES Rentals of the USA
- **Contribution to Safe Working At height** - HSS Hire of the UK for fitting secondary guarding on all boom lifts in its fleet.
- **Powered Access Pioneer** - Herz Equipment Rental China
- **Project of the year Award** - Scanclimber, Scan Rent and PMB Façade Technology of Malaysia.
- **Access Rental Company of the year** - Mateco of Germany
- **International Lifetime Achievement award** went to Raymond E. Smith Jnr who founded, built up and sold several aerial lift manufacturing companies, stating with Smiths Industries which he bought from his father, developing the Smith Mite-E-Lift range of push-around scissor lifts in 1969. He also registered numerous patents relating to aerial work platforms during his career, many of which are still current.



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The 48 m difference

RUTHMANN's newest HEIGHT performance series model was presented at Intermat in Paris, France. It is currently the most powerful machine in this specific truck mount sector.

Maximum on a 2-Axle-Chassis

Since APEX 2014, RUTHMANN's new T 480 has been selling particularly well on two-axle (tandem) trucks. There is a variety of different truck brands to choose from including: Mercedes-Benz, MAN, Volvo, Scania, Isuzu (for the Asian market), and Freightliner (for North America). RUTHMANN calls this attribute "multi-chassis compatibility".

Sleeper Cab and All-Wheel Drive

Rental companies provide drivers/operators who are renting out truck-mounted aerial work platforms of this size. Creating a pleasant work atmosphere is garnering more and more

attention. In addition to the many state-of-the-art technical features on trucks today, sleeper cabs are becoming increasingly popular. Sleeper cabs allow drivers to relax comfortably during rest periods.

For assignments in rough and uneven terrain (e.g. construction sites and utility poles in remote areas), all-wheel drive trucks are a major advantage.

With a maximum height of less than 4 m, the features of RUTHMANN STEIGER all-wheel drive work platforms are simply unbeatable. Even on an all-wheel drive chassis, the gross vehicle weight of a 2-axle truck does not exceed the 18 t limit.

3 m More Above 20 m Height

For customers, the overall performance of the work platform is just as important as the features of the truck it is mounted on. RUTHMANN's innovative HEIGHT performance series has so much to offer.

Compared to other manufacturers, the greatest customer benefit of all is the extra reach capacity above the 20 m working height level – up to 3 more metres at this height (see diagram on the upper right hand page). Maximum reach capacity when working up high is and always has been a top priority for customers who RUTHMANN had consulted prior to the development of the HEIGHT performance series. This advantage is not limited to the new T 480 but is also available

on all other models in the highly successful HEIGHT performance series.

The Work Basket: An Exceptional Place to Work

The work basket of the HEIGHT performance STEIGER series features larger internal dimensions (3,613 x 890 mm when fully telescoped) and smaller external dimensions (2,420 x 1,040 mm) than those made by other manufacturers. In addition to the important technical features, customers and/or operators and equipment rental companies require work baskets that can be used for a wide variety of purposes.



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HEIGHT PERFORMANCE
PARTNER
STEIGER® T 380 T 400 T 460 T 480
T 540 T 630 T 720

The new STEIGER T 480 features a 48 m working height and 32 m lateral reach. In this category, this new RUTHMANN model provides the best performance capabilities available on the market. On the company website www.ruthmann.de RUTHMANN has posted more than 150 HEIGHT performance series models in the 38, 40, 46, 48, 54, 63, and 72 metre working height range, handed over to satisfied customers from around the world. RUTHMANN is the only manufacturer with this kind of selection in a single production series.

RUTHMANN provides stable aerial work platform technology. A special camera bracket is optionally available on all HEIGHT performance models.





RUTHMANN has documented the amazing versatility of their work baskets in the company's "Multifunctional Work Basket"



brochure (scan QR code on the left).

The work baskets are ideal for: TV/ video recordings, glass/ window/ façade cleaning assignments, installation and repair work on signs, billboards, solar panels, radio towers, streetlights, etc. The boom system can be fully operated at maximum (600 kg) basket load capacity. All boom and outrigger movements can be controlled from inside the work basket. If the assignment is of longer duration, the operator can sit down and relax on the folding seat located in the basket. Heating systems for the control panel and basket floor nicely round off the many useful features on and inside the work basket. The multi-functional work basket was also developed in cooperation with operators and is specifically tailored to their wants and needs.

Equipment Transport and Installation

With the innovative "Lift-Up System" mounted onto the work basket, it is perfectly equipped to safely lift up to 400 kg of heavy and bulky items to the desired location. RUTHMANN's "Lift-Up System" is designed to accommodate the load at ground level. Parts do not have to be transported separately and there is no awkward on-site assembly.

Furthermore, there are no stumbling hazards anywhere on the basket floor. Heavy and bulky items (to 300 kg) can also be lifted using a material winch. When utilizing the winch, the boom system does not have to be lowered in order to pick up items at ground level. The material winch has a lifting speed of approx. 6-10 m per minute. The type examination certificate of the RUTHMANN's material winch system – unique on the market – maximizes safety at the jobsite.

Performance Parameter

The T 480 has all of the familiar benefits that have made the HEIGHT performance series so popular. Models in this series feature compact vehicle dimensions and the T 480 is no exception. The total vehicle length is 10.36 m – unrivalled in the industry. With a 48 m working height and 32 m lateral outreach, RUTHMANN's new T 480 has the best performance capabilities in this category available on the market today. Mounted onto a standard 4x2 chassis, the T 480 has a height of only 3.72 m. On an all-wheel drive (4x4) chassis, it is just 3.95 m high. The net weight (curb weight) is only 17,650 kg, even on a 4x4 chassis with sleeper cab. There is enough room for passengers, tools and equipment without having to worry about exceeding the gross vehicle weight (GVW) restriction.

Smooth Performance at the Jobsite

Because the boom system can be pivoted at maximum lateral reach without having to be retracted, getting stuck

is next to impossible with the T 480 and its siblings in the HEIGHT performance series. The top view performance drawings show a circular performance – not angular.

High Speed Movements

As every professional knows, the greater the rotation and swivel angle of movable boom components, the more complex the control technology. In contrast to the competition, RUTHMANN has years of experience with hundreds of HEIGHT performance models now sold. Movements are smooth and fast thanks to RUTHMANN's highly developed control technology. This greatly enhances safety and efficiency at the jobsite.

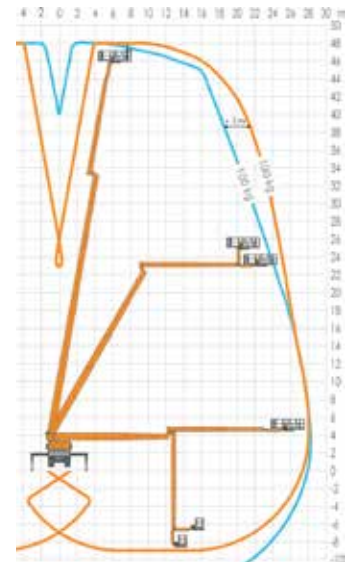
Multi-chassis Compatibility

Customers worldwide have diverse needs and sometimes require heavy-duty truck mounted work platforms that, in addition to state-of-the-art features and top performance capabilities, also provide off-road mobility. This is why the T 480 can also be ordered on a 3-axle chassis. RUTHMANN has enhanced the outrigger stroke on its all-wheel drive T 480 and further optimized its performance capabilities.

Extensive Research Recommended

When analyzing the performance capabilities of truck-mounted aerial work platforms, there are many different things to consider. Overall performance depends on the manufacturer's concept and design. Customers should first understand the designer's/ developer's concept in order to choose the work platform that is right for them.

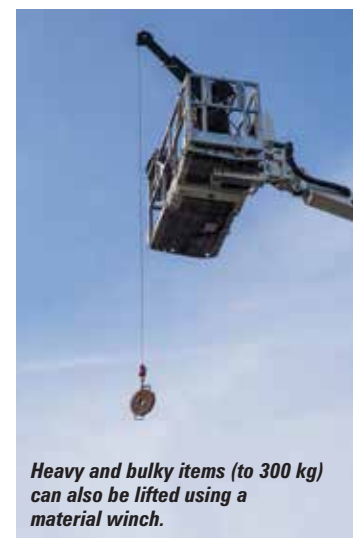
With its HEIGHT performance series, RUTHMANN adheres to the so called "upright work basket" concept. This means that the basket is fastened onto a base plate (mounting bracket). This is in contrast to "hanging work baskets" that are also available on the



market. RUTHMANN's upright basket offers considerably greater capacity above the 20 m working height level (see diagram above).

This concept also provides tremendous benefits at the jobsite. During pipeline construction, for example, the boom can be carefully extended below and behind existing pipes. The jib/work basket is then lifted to the desired position so that work can be carried out behind the pipes.

Of course, RUTHMANN's cage concept also enables work to be carried out below ground. However, industry experts are in agreement that these types of aerial work platforms will not be able to replace the more effective under-bridge inspection units.



Heavy and bulky items (to 300 kg) can also be lifted using a material winch.

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The ground you work on...

As well as being aware of everything happening on site, all contractors need to know and understand the ground they are working on. Failure to do so can have serious and life-changing consequences.

The load that machinery places on the ground is in many cases simply the weight of the machine. But it can also include the weight of a load being lifted – for a mobile crane, this can mean a massive increase in the forces being applied through the outriggers, which will change as the load is moved. The force exerted on the ground can also be a lot more than the weight of the machine and load. For example, an excavator pulling a sheet pile also has to overcome the friction/gripping force of the ground holding the sheet. These loads are increased by the natural forward tipping movement of the excavator, transferring weight and force to the front of the tracks – often close to the edge of the excavation it is working on.

If the ground gives way, the machine could move unexpectedly, or completely overturn. This

also hide drains, culverts, tunnels and other underground features that can seriously affect the strength of the ground.

Whenever a machine loses control or overturns, there is always the possibility of serious or fatal injuries to the driver, and those working in the area. Even if no injury occurs, there will be serious losses, as not only is production disrupted, but the recovery operation can be difficult and costly. Research by the HSE found that for every £1 recovered through insurance following an incident, a further £8 to £36 could not be recovered.

The principal contractor in charge of the site has ultimate responsibility for assessing and managing the capability of the ground. They must work with equipment companies, sub-contractors and ground engineering specialists as necessary to minimise the risk of



can be caused by something as simple as an outrigger punching through a tarmac surface, or a more complex failure of soil strata some metres below the surface. The types of ground that need to be taken into account are as varied as construction sites, and includes natural undisturbed ground, areas that have been worked in the past or as part of the current project, embankments, spoil heaps, roadways, car parks, docks, and other structures. The surface can

ground failure. Assessment and management of ground conditions must be part of the planning process with two key areas considered. One is the selection of machine and determining the nature and scale of the loads and forces it will apply to the ground. The second is to gather information about the ground and its bearing capacity. When sufficient information is gathered, an assessment is made as to whether the ground will take the loads imposed by the selected

A Liebherr LTM1500 which overturned in Scotland after the ground under one of its outriggers gave way



machine. This may mean that the machine needs to be changed, or that the job needs to be done differently, or that work needs to be done to improve the ground's strength.

Information about the ground itself may already be available from previous assessments, or records, plans and specifications from work which has already been completed. Sometimes, however, investigations on site are required. This may involve digging trial pits, or a collection of samples using bores. The level of detail in the ground investigation and assessment needs to reflect the complexity of the job, the reliability of the information, and the margins of safety that result from the selection of machinery. Monitoring and management of ground conditions needs to continue as work progresses, not only to take

account of changes in the task being done, but also changes to site conditions as a result of rain, snow, flooding or other influences.

The Strategic Forum Plant Safety Group recently published new guidance on Ground Conditions, in conjunction with the HSE, Temporary Works Forum and other industry bodies. The new work emphasises the importance of the principal contractor's coordinating role, and that by ensuring that the supply chain communicates and works together, overall levels of risk can be driven down. When sectors work in isolation, responsibilities and liabilities are frequently displaced to others, without actually reducing the overall risk level.

The new guidance can be downloaded from the CPA website at: www.cpa.uk.net



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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.



Virtual simulators provide a cost effective and safe method of training

Virtual training for 3,200t crane

International heavy lift company Mammoet has installed a custom-built PTC simulator at its training centre in the Netherlands to provide virtual training on its largest crane - the 3,200 tonne PTC 140/200 DS.

The simulator has been designed to precisely replicate the real crane and features the same operating system, cab, server rack, crane control cabinet and an instructor station. High definition screens and multiple speakers provide realistic visuals and sounds of the crane and its surroundings, while its programming also provides an almost endless number of training scenarios. Variables range from the configuration of the crane to the size and weight of the load and different weather conditions.

The simulator also provides operators with the chance to practice real-life lifts, as well as serve to demonstrate the proposed lift to clients by using a virtual model of their facility and the component being lifted. Furthermore, the software can be used to make an extensive risk assessment as well as practice the lift under various circumstances, providing Mammoet with more time to prepare the operation in detail. The entire crew is also able to see what the job entails, how long it might take and identify potential hazards.

MOM steps up crane inspections

Singapore's Ministry of Manpower has launched an enforcement operation targeting crane and lifting operations following seven reported incidents since January.

Chan Yew Kwong, MOM director of the Occupational Safety and Health Inspectorate, said: "I am dismayed that we have seen six accidents involving cranes in less than three weeks. This is totally unacceptable. Our preliminary findings indicate that many of these cases could have been prevented if lifting plans were properly implemented and regular functionality checks on crane's safety devices were conducted. Safety is paramount. Employers must play their part in taking the necessary preventive measures to put an end to unsafe lifting operations."

MOM has had a number of such 'crackdowns' since new crane rules were published in 2011, the latest of which took place last November. Each time it takes action against around 80 companies. Some claim that in between the public crackdowns, the ministry comes under pressure to 'back-off' its inspections.

There have been seven crane related incidents since January



Manitowoc is providing preventive maintenance training for operators in South America

Operator training from Manitowoc

Manitowoc has introduced a training programme for South America, aimed at providing operators with preventive maintenance training for its cranes.

Available in both Portuguese and Spanish, from facilities in Brazil, Chile, Mexico and other locations in South and Central America, the three to five day courses provide specific instructions on crane operation, diagnostics, maintenance and repairs. They also emphasise electric, hydraulic, pneumatic, and mechanical theory and practical tests. Once completed, trainees receive a technical certification endorsed by Manitowoc.

Repeat offences costs \$184k

Jacksonville, Florida, roofing contractor Great White Construction was fined \$184,000, after its employees were caught working on sites without fall protection last September and October.

Since 2012, OSHA has inspected Great White sites five times and issued multiple citations for repeated and serious violations of fall protection and other safety standards. Other violations have included not training employees in how to use fall protection systems.

Brian Sturtecky, OSHA area director in Jacksonville, said: "The crew leader told the inspector that he was given proper equipment and training and knew the regulations, but chose to ignore them. OSHA will continue to cite violations and issue penalties when employers fail in their responsibility to protect workers."

My Future My Choice

Education charity My Future My Choice will host two 'Lifting Aspirations' workshops at Vertikal Days, with the aim to encourage and inspire school children on the benefits of working in the crane and lifting sector.

Sponsored by Liebherr UK, and using volunteers from the construction industry, the children will work together to construct a cardboard crane or robotic hydraulic arm, whilst exploring the principles of pneumatics, hydraulics, gears and pulleys. They will also learn the lifestyle opportunities available in the lifting and access industry, while having a fun learning opportunity. The workshops will be followed by a supervised tour of the exhibition.

My Future My Choice will once again be exhibiting at Vertikal Days this year.



Who trained them then?

Spotted in Australia, a man using a step ladder on a sloping roof to reach an antenna.





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



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WWW.CISRS.ORG.UK

NASC launch safety report

NASC has launched its 2015 Safety Report, documenting all accident statistics from its contracting members. The report, which is available to download from the NASC website, compiles all accident data from 2014, submitted by NASC contracting members as part of its membership requirements. The report includes:

- Injuries and fatalities to employees, members of the public and third parties
- Accident causes and types
- Detailed analysis of accidents
- Comparison of HSE/NASC accident statistics
- What the NASC does to support safe scaffolding practice

Although no fatalities were recorded within the membership last year, the total number of accidents increased by nine percent to 105, from 96 in 2013. This however corresponds with a nine percent increase in the total number of member employees, which now stands at 14,988. The report also shows that there were 24 falls from height, with the highest reported fall being from a height of six metres. Nine of the falls were from scaffolds and working platforms, while seven falls were from ladders.

In 2014 41 percent of accidents occurred to operatives aged 21 to 30, followed by 23 percent to those aged 41 to 50, accounting for 64 percent of all accidents. For the 16 to 40 age group, slips, trips and falls were the highest cause of accidents, with 23 incidents, followed by 16 falls from height, 13 manual handling incidents, and two incidents resulting from falling materials. For those aged over 41 years old, slips, trips and falls were also the major cause of accidents, accounting for 16 incidents. These statistics follow a very similar pattern to those reported in the 2014 NASC Safety Report.

Further analysis shows that the most common injuries suffered were to the feet, toes and ankles, followed by injuries to the hands, fingers and wrists. Multiple injuries to the rest of the body were also documented. The NASC also identified a decrease in the number of incidents related to trainees.

NASC managing director, Robin James said: "Once again, the annual NASC Safety Report has delivered positive numbers for the membership and provided engaging analysis, which can be used to raise standards and levels of safety in the scaffolding and access industry. We will be encouraging members to continue to work towards reducing accident figures."

To receive a copy of the 2015 Safety Report contact NASC directly, or view it online at www.nasc.org.uk/safety_reports



NASC staff will be on hand to discuss membership, auditing, NASC publications and scaffold inspection training

Health & Safety Scotland

On 22-23rd April, the NASC and CISRS will exhibit at the Health & Safety Scotland event and seminar at the Scottish Exhibition and Conference Centre in Glasgow. As well as using the event to highlight the 2015 Safety Report, NASC will actively promote the planned launch of its SG4:15 safety guidance and new safety guidance on slips, trips and falls.



HEALTH & SAFETY SCOTLAND
SECC, GLASGOW + 22-23 APRIL 2015

NASC staff will be on hand to discuss membership, auditing, NASC publications and scaffold inspection training, as well as providing live demonstrations of the TG20:13 tube and fitting technical guidance eGuide.

Sharing the stand, the Construction Industry Scaffolders Record Scheme (CISRS) will demonstrate the latest information on Scaffold Inspection Training (SITS) and CISRS Operative Training scaffolding courses, along with information on changes to Part One, Part Two and Advanced scaffolding courses, following the launch of TG20:13 in February.

NASC Managing director, Robin James said: "The confederation is hoping to kick on from successful exhibitions in 2014 at the S&H Expo at ExCeL London, and the Health and Safety North event in Bolton. There is a huge amount of interest in what the organisation is doing, especially in TG20:13. And we expect a similar interest in the 2015 Safety Report, forthcoming SG4:15 safety guidance, and other new and revised publications designed to promote scaffolding best practice. We are looking forward to attracting more Scottish and Northern Irish scaffolding members."

SG4:15 update

In addition to the Safety Report, the NASC Health and Safety Committee has asked members to get in touch regarding any aspects they would like considered in the current review of its core health and safety guidance, SG4. Work is underway on the update, SG4:15, scheduled to be launched in the Autumn. New Slips Trips and Falls guidance and other new and revised safety publications is also scheduled to be launched in 2015.

For more details visit:
www.cisrs.org.uk or
www.nasc.org.uk
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(l-r) IPAF chief executive Tim Whiteman with Steve Couling and Andy Studdert

IPAF elects new president

Andy Studdert, chairman of USA-based NES Rentals, has been elected the new president of IPAF, succeeding Steve Couling, managing director of IAPS. Nick Selley, group business development of AFI-Uplift, was elected deputy president, while Brad Boehler, president of Skyjack, takes over as vice president.

Studdert said: "I would like to thank Steve Couling for his commitment to and leadership of IPAF during the past two years. Steve is a difficult act to follow. His leadership and vision have been remarkable and inspiring. The ongoing push to eLearning will be a major theme of IPAF's activities in the next several years. This new technology will change the learning experience for operators and drive the safety message home in a very positive way. A second major area of focus will be embracing, handling and implementing change. We need to look at what we've done in the past and ask ourselves if that is still relevant."

A call for smart technology

Imagine a work environment where smart vests can communicate with aerial work platforms to warn operators that their harness/lanyard is not connected to the anchor point. Or a world where a machine equipped with sensors can contribute to collision avoidance and detection...

At the IPAF Summit last month, keynote speaker Frank Nerenhausen, president of JLG, showed the audience how wearables, augmented reality and remote operation could be harnessed in a powerful system of prevention and control.

At the same time, he also underlined the value of human education and intervention and stressed: 'Training must continue to play a prominent role as our industry advances'.

During the discussion following Nerenhausen's presentation, IPAF chief executive Tim Whiteman revealed that a new category for innovative technology would be introduced at the next International Awards for Powered Access, which will be held with the IPAF Summit on 17th March 2016, in Madrid, Spain. Watch for event details at: www.iapa-summit.info



JLG president Frank Nerenhausen speaking on smart technology at the IPAF Summit

AGM results point to steady growth

Outgoing IPAF president Steve Couling and chief executive Tim Whiteman presented the federation's latest results at its annual general meeting, held on 26th March, in Washington, DC.

IPAF's revenues increased 9.4 percent to £4.65 million in 2014, while its surplus increased by 3.2 percent – which will be re-invested in safety, membership and training activities in line with the aims of the not-for-profit federation.

Membership increased by 6.9 percent, and a record number of 137,429 people were trained by IPAF-approved training centres in 2014. This is an increase of 7.9 percent compared with the 127,365 people trained in 2013. Further details are available in the IPAF annual report 2014 available at the 'publications' section of: www.ipaf.org

Numbers on the up

The worldwide aerial work platform rental fleet has grown to 1,120,000 - an increase of eight percent over the previous year.

For more vital facts and figures featured in the 2015 IPAF Powered Access Rental Market Reports for Europe and the US, visit:

www.ipaf.org/reports



New operating rules adopted

Members of the IPAF council have agreed to adopt new operating rules aimed at placing more autonomy and responsibility with the IPAF country and regional councils, and refocusing the mandate of the main council on providing the longer term strategy and direction for the federation.

Under the new rules, the main council will comprise the chairpersons of the country and regional councils, the chairpersons of the international committees, the board members, and five elected members. The new operating rules complement the legal federation rules as registered with the UK's Financial Conduct Authority. The rules take effect immediately and can be viewed at the members only section of: www.ipaf.org

Save the date

The Europlatform access rental conference will be held on 8th October in Copenhagen, Denmark. Watch for details at: www.europlatform.info



UK member event

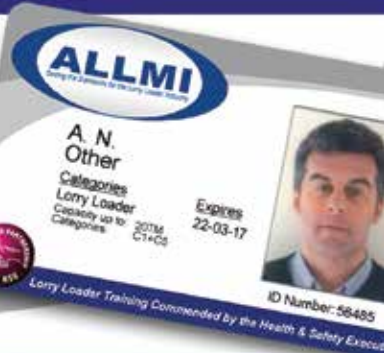
The IPAF UK member event, combining discussions on safety and good practice with networking in a relaxed setting, will be held on 15th October 2015. Details at: www.ipaf.org/events



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BS7121 Part 4 up for review



As nearly five years have passed since the release of BS7121 Part 4: 2010, the British standard for the safe use of lorry loaders, the British Standards Institute is now considering whether any amendments are required.

As a result, ALLMI recently engaged with its members and training providers in order to obtain their views on the subject, before submitting a uniform response on behalf of the association.

A BSI working group will consider whether any amendments are required on BS7121 Part 4: 2010.



AP Training - five years on

The ALLMI Appointed Person training course has also reach the five year milestone in 2015. With many hundreds of candidates having successfully completed the training since its introduction, the course has had a significant impact on practices within the lorry loader industry.

ALLMI technical director, Alan Johnson, said: "The demand we've experienced for the AP training not only reflects the quality of the course and the fact that it's the only one of its kind available in the UK, but also the continuing growth in awareness within the wider lorry loader industry. The revision of BS7121 Part 4 clarified the roles within the lifting team hierarchy and reinforced the need for formal lift planning. Since the launch of that document in 2010, ALLMI's AP course has been vital in educating fleet owners on this subject and helping them to train the relevant members of their workforce to the highest standard available."

As one of the first candidates to go through the training nearly five years' ago, Andrew Hollingsworth, group fleet manager for Travis Perkins, will soon be renewing his AP card by undertaking refresher training and assessments. In referring to the training he received and its usefulness in his job, he said: "Becoming an ALLMI accredited appointed person has been a valuable experience. The standard of the course content was excellent, as was the level of instruction, and the expert support I have received since gaining the qualification has been fantastic. Having now had five years' experience of putting the knowledge acquired into practice, it has become even clearer to me just how important it is to attend an AP course that is totally focused on lorry loaders, and how this can bring significant benefits to lifting operations in terms safety, efficiency and professionalism."

The ALLMI Appointed Person course is the UK's only accredited AP programme dedicated to lorry loader lifting operations and to be fully compliant with the requirements of BS7121 Part 4. The course content was developed by a group of experienced representatives from a variety of manufacturers, fleet owners and training providers, as well as the UKCG and HSE.



ALLMI's AP training course was launched five years ago

Further membership growth

The past 12 months produced another excellent result for ALLMI in terms of membership growth, with a good balance of new members seeing all of the association's divisions increasing in size. The total membership is now close to 200 companies, which consists of manufacturers, service repair businesses, fleet owners and a diverse affiliate category.



ALLMI chief executive Tom Wakefield, said: "One of the key drivers for this demand is the service that we are able to provide for members. ALLMI membership status also adds a great deal of credibility to any company in the industry, whether in relation to training, crane installations, service and repair, or the running of a lorry loader fleet."

One company to recently join the Association is Martin Williams (Hull), a commercial vehicle bodybuilder based in Hull. National sales manager, Jon Cooper, said: "As a loader crane installer, we know that membership of ALLMI will assist us in continually developing and improving our already high standards, and it will be invaluable in our efforts to keep abreast of technical and legislative developments."

BS7121 Part 1 update

The BSI working group, MHE/003/11 has held its third meeting in six months, in order to make further progress on the revision of BS7121 Code of Practice for the Safe Use of Cranes - Part 1: General.

The majority of the meeting was spent clarifying parts of the previous draft, to ensure uniformity with some of the key changes and additions already made. The latest revision has since been proofed by the British Standards Institute in order to update the cross-referencing to other standards and the next meeting is planned for late April. It is anticipated that a draft for public comment will be released shortly after that meeting.



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Working Well Together

Throughout 2015 the association will be collaborating with Working Well Together (WWT) - the Health and Safety Executive's construction industry initiative - which holds Safety and Health Awareness Days on specific topics. The latest event focusing on working at height was held in March at Pontefract Racecourse, West Yorkshire, where PASMA chairman, Chris Blantern, was on hand to discuss the benefits of mobile access towers.

Blantern took the opportunity to explain the importance of only buying or renting a tower that conforms to European standard EN 1004. 'Not on your life!' - an ongoing PASMA campaign backed by the HSE - warns of the dangers of using incomplete and unsafe tower scaffolds that do not comply with the standard.

It follows in the wake of HSE's growing concern about the number of incidents involving the use of sub-standard, poorly constructed and, in some cases, downright dangerous towers. There are numerous examples of people whose falls could have been prevented by using a safe tower, which is why PASMA has published its 'Choosing a safe mobile tower' information leaflet, which is available from: www.pasma.co.uk



PASMA has published a free leaflet on the benefits of EN 1004



PAS 250: The next step

PAS 250 is the publicly available specification sponsored by PASMA and developed in collaboration with the British Standards Institution (BSI). It specifies minimum safety and performance criteria for low level work platforms, commonly referred to as podiums or pulpits. First published in 2012, PASMA has now submitted a business case to BSI for it to be developed into a full British standard.

PAS 250 is important because up until now designs for this type of equipment had been introduced in the absence of any formal standard. Without specific design criteria it was clear that some products were inherently unsafe and open to misuse and abuse. The importance that the association attaches to PAS 250 is reflected in the fact that PASMA members must only supply PAS 250 compliant equipment, and starting this year, manufacturing members must have their podiums certified as compliant by a recognised independent inspection body.

The standard covers, amongst other things, strength and stability requirements and material specifications, together with the design requirements for the working platform, side protection, access, mobility, labels and user guides.

PASMA technical director Don Aers said: "PAS 250 addresses all these issues in a pragmatic, practical way and users should be aware of the risks they run by specifying non-compliant equipment. It really is the first thing they should check, and that's why all PASMA members now comply with its requirements."

PASMA diary dates

- Safety & Health Expo, 16-18 June, ExCeL, London
- IOSH Conference, 16 June, ExCeL, London
- PASMA AMM, 3 July, Coombe Abbey, Warwickshire
- HAE Convention, 22-23 September, Loughborough University

Maarten de Vries joins PASMA

PASMA has appointed Maarten de Vries to the newly created post of head of operations, communication and innovation. Based in Glasgow, and reporting directly to managing director, Peter Bennett, he will be responsible for managing the key projects required to deliver the association's development plans - both in the UK and overseas - and ensuring that members enjoy the highest levels of service and support.



Maarten de Vries

No stranger to the mobile access tower industry, Maarten was employed by PASMA member Turner Access in the late 1990's where he was directly involved in tower manufacture and the design, development and marketing of new tower products. For the last 12 years he has been a consultant and management trainer and tutor involved in a wide variety of projects. These have ranged from website design to the development of complete back-office applications.

A fellow of the Institute of Consulting and a member of the Association for Project Management, de Vries has considerable experience of project and programme management. He is also a PRINCE2 and APMP accredited trainer, and a programme tutor for a CMI diploma course in project management, and holds an undergraduate certificate in engineering and a degree in business computing.

He said: "Designing a successful tower product was already a career highlight. I'm therefore delighted to be back at the heart and nerve centre of the industry where I look forward to applying my experience for the benefit of PASMA members and the tower sector at large."



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

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Tadano ATF 400G-6 All Terrain Crane

The Tadano ATF 400G-6 has a maximum capacity of 400 tonnes at 2.7 metre radius, and a version of it in the colours of UK-based Davies Crane Hire was presented at the Bauma exhibition in 2013. WSI Models has produced this 1:50 scale model and it comes with a very clear manual although there is no reeving information for the hook blocks.

Starting underneath, the chassis is highly detailed and it has fully replicated transmission and suspension systems. The axles have steering which is linked as two groups of three which allows a moderate range of steering movement. There is sprung suspension on each axle which performs well. Michelin is moulded into the tyre sidewalls.

The carrier has a very detailed driving cab and the engine area behind it is impressive, with fine mesh grilles. The outriggers are very good with smooth jack cylinder rods and tiny sharply clear graphics which add to the realism. Large metal spreader plates with useable lifting points are also included with the model.

The crane superstructure has two sets of metal handrails supplied - one for when the crane is in transport mode, and the other for when it is working. The Davies signwriting on the side of the crane are of a high quality and look great.

The counterweight tray has the second hoist ready-reeved for a luffing fly jib, and the separate 11 tonne counterweight blocks enable a full configuration of 98 tonnes.

The main boom lift cylinder is a very good metal part and has a

locking screw to fix the extension. The boom detailing includes a large rotating spooling drum. The inner telescope sections have a realistic profile with thin walls and a very good feature is that there are boom locking positions at 46, 92 and 100 percent of extension. The 'Power System' boom suspension system for the telescopic boom, comprises a simple metal frame which performs well with a good tension able to be maintained.

Three very good quality metal hooks are supplied, and the winch is operated by a key and has enough friction to hold a moderate load.

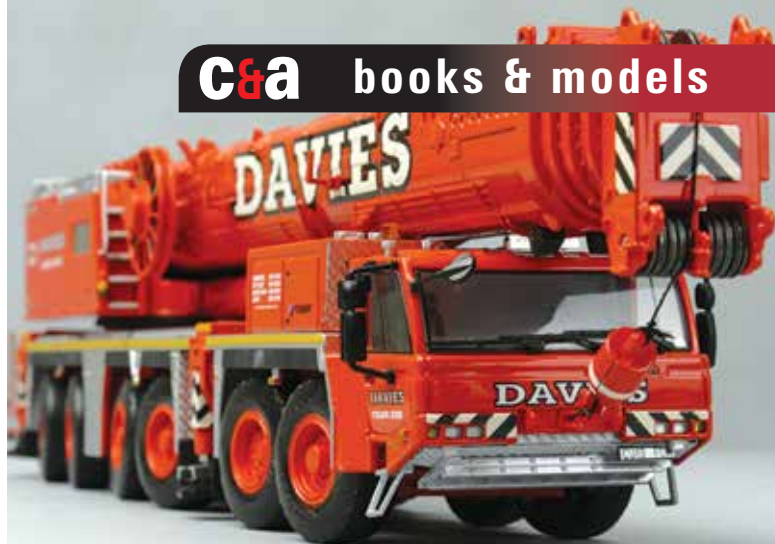
This model is high quality and well-made, and it is certainly an eye-catcher in the Davies Crane Hire livery. It costs around €349.

To read the full reviews of these models visit www.cranesetc.co.uk

| Cranes Ect Model Rating | |
|-------------------------|-----|
| Packaging (max 10) | 8 |
| Detail (max 30) | 26 |
| Features (max 20) | 18 |
| Quality (max 25) | 20 |
| Price (max 15) | 10 |
| Overall (max 100) | 83% |



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Letters



Industry bullies

Dear Sir,

I was sorry to read the letter, Plea for Help, from the crane driver you carried in the latest Cranes & Access that arrived today. It is a sad day when hard working people are driven to make a cry for help in such a public way and should not be part of a modern mega million pound industry. I did think that it suggested that this was a problem we have in Scotland and not anywhere else in Britain. I have driven cranes for many Scottish crane hire companies and can honestly say that this has not ever happened to me. I have not heard of it happening to others that I have worked with either.

But I do know that there are one or two people in the industry that are quite capable of things like this and who have a reputation for this sort of thing. We all know who they are. But this is not a Scottish problem it happens in England too maybe even worse. It would be nice if someone like the CPA had a phone line to report this sort of thing because a driver in control of a big crane being blackmailed into taking risks of cutting corners or working beyond safe hour limits is bad for everyone and could kill an innocent person. It could also be good for reporting other unsafe things like doing a crane hire job for companies who have no knowledge of managing a lift. I think that this matter has connections with the letter in last month's magazine from Tim Proud and I am amazed that you did not get some letters from other crane hire owners about that. It's like the mafia - all silent!

Can you please not publish my name - as it could be difficult for me.
Name withheld as requested

I agree with the comment that the letter we published last month 'A plea for help' was dreadfully sad and suggests a practice that has no place in a progressive industry like ours. What we don't know is if this case is related to one bad depot manager or a bad company. We should not forget that fact that when reading both letters.

Bullies turn up all over the place and I do not think that the aerial lift and lifting industries are any worse or any better than others. However we do still have a tendency for secrecy in some areas - as do the construction and heavy engineering industries - when things go wrong, which tends to support and even breed such bullying habits. Compare this to the aviation industry where technical problems, accidents and the like are openly placed and debated in the public domain for all to see and learn from, while we attempt to both hide such information, then deny it and 'strong-arm' those who are brave or foolhardy enough to communicate or publish it.

I do think that industry associations such as IPAF, CPA, ERA, DLR, ARA, EWPA, NASC, HRIA, PASMA, ALLMI etc...etc... could have a confidential hot line number for the reporting of abuse and safety issues etc... Perhaps better still they could have a shared service with other similar associations in their regions? It is hard to see what objection a decent and open minded company/member could have against such a proposal, as long as the procedure of dealing with such calls was sound and aimed at resolving or mediating the situation without the fear of prosecution etc...

Ed.

Dear Sir,

In spite of the availability of new technology, the theft of plant and equipment continues to rise, with around £800 million of equipment taken annually. As a result a group of eight leading hire companies are now working together to beat plant theft.

A Plant, Brandon Hire, GAP Hire Solutions, HSS, Nationwide Platforms, Speedy Solutions and VP, recently collaborated to discuss ways in which the theft of plant machinery can be reduced. The majority of equipment theft occurs at construction sites, rather than at depots. Items such as mini-excavators regularly go missing from sites, which has considerable cost implications attached as well as the repair of any damage done to access the site.

The meeting followed the seventh annual Combined Industries Theft Solutions (CITS) conference held at JCB headquarters in Rochester, Staffordshire last November. The conference pinpointed key steps that the construction and associated industries should take to ensure a proactive stance in combating the issue, with around 92 percent of construction and hire companies experiencing plant theft from sites across the country. All eight companies attended the CITS conference and decided to expand upon the original meeting by joining forces to share information, ideas and best practice. The inaugural meeting was held at GAP Hire Solutions Headquarters in Glasgow in February.

The meeting was a great success and several options to reduce theft were discussed, including increasing depot and site security measures. It was also suggested that each of the companies should begin strengthening relationships with local police forces in order to gain better support. Whilst utilising resources such as trade bodies to promote and lobby the issue of plant theft is on the agenda going forward.

The next meeting will be held during Vertical Days at Speedy Services, headquarters in Haydock this May.

Mark Anderson,
GAP group

Readers Letters

Peter Allison 1925 - 2015

Peter Allison, who was a key part of the Coles Cranes export sales team in the 1960s and again in the 1980s, export sales director for Grove-Coles and Grove, died at the end of March. He was 90.

His funeral was held in Bournemouth on Monday April 20th and was attended by more than 25 members of Cobblers, the Coles' former employees association, of which he was the honorary secretary for the past eight years. A full obituary will be published in the next issue of Cranes & Access.



Stuart Smith 1948 -2015

Stuart Smith, the founder and past owner of Peterborough Crane Hire, has died, following a long battle with Cancer. He was 67.

Smith started the original Peterborough Crane Hire with the purchase of a 25 tonne crane, before building up a fleet of around 20 units over the years. The company ran into difficulties, and after the company ceased trading in the recent recession, he joined mini crane and crane service specialist JT Cranes. JT Cranes said: "Stuart was well known in the industry as being a true gentleman and will be greatly missed by all that knew him." The funeral was held on April 15th in Peterborough.

Dear Sir,

You asked for more information about the late Stuart Smith.

He served his apprenticeship as a plant electrician with Mitchell Construction Kinnear Moodie Group at Wharf Road, Peterborough. His elder brother Trevor also did an apprenticeship with Mitchells as a plant fitter.

As was usual at that time Stuart would have gone on electrical breakdowns on all manner of equipment, tower cranes, hoists and batching plants. When Mitchells went bust I am not sure if Stuart stayed on after Tarmac bought parts of the group, but I know that he later worked for Tarmac in Egypt on the Cairo Waste Water scheme.

He also worked for Dowmac Plant & Transport erecting Kroll and Pignon tower cranes all over the UK. Stuart worked in Saudi Arabia, later moving to Germany to run the German office, returning, I believe to buy a mobile crane and start Peterborough Crane Hire.

From when I first knew him he played electric guitar and was a member of local Peterborough rock bands with his son Nick, playing for many local charities and raising thousands of pounds. He was a member of the Peterborough Branch of the CMPE, becoming branch treasurer and branch chairman. He sponsored many youth football teams. He was generous with his time and interest. He will be sadly missed.

Many others in the industry also left tributes to a man who was clearly liked and widely respected. Here are a few of them:

A true gentleman in every sense of the word, taken too early and will be sadly missed by all who were privileged to know him. Stuart fought an illness for many years with little complaint, a brave man indeed.

Rest in peace Stu.

Bill Green



*A lovely guy with a great sense of humour, and an original Mod!!
It's been a pleasure knowing you Stuart.*

Peter Burwell

*A true gentleman and always a pleasure to be in his company.
It was so good to see and spend time with him at Vertikal Days last year.
His warmth made me feel like a long lost brother.*

Terry Marnock

*Stuart was a great man and will be sadly missed by all the crane industry,
the first time we meet was at Kato in Sweden 1988 and Stuart was
fantastic on the stage playing his guitar, Dream-Dream, he brought down
the house with applause. Sad day! He will always be in my thoughts.*

Alan Stowell

*It was always a pleasure to meet and talk with Stuart. He would bring
stories to life with anecdotes and some pretty good impersonations.
One genuine good guy sadly missed.*

Trevor Jepson

*Stuart was a such a great man to deal with.
The industry has lost one of the best!!*

Darren Jackson

*I knew Stuart for over 40 years and he will be greatly missed by so many
people whose lives he touched by his kindness, generosity and friendship.
He really was one of the good guys. A true gentleman.*

Robert Nugent

*So sad to here Stuart had passed away.
Always the gentlemen, such a nice man.*

Tim Ambridge

*Sad news indeed. Stuart was a Gentleman in every sense of the word,
a real loss to the Crane industry.*

Andrew Foster

*A fantastic man, always had a professional approach to our Industry.
A pleasure to deal with. He will be sadly missed.*

David Slack

Whats on?

2015

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www.ipaf.org/asiacommunity

TABS
June 11, 2015 Hamburg, Germany
German language work at height safety conference
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www.tagung-tabs.eu

CICA Conference 2015
September 2nd - 4th, 2015
Australian crane industry conference Perth, Australia
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www.cica.com.au

Platformers' Days 2015
September 11-12, 2015
German access equipment meeting.
Hohenroda, Germany.
Tel: +49 (0)5033981742
www.platformers-days.com

Vertikal Dagen
15 -17 September
Gorinchem, Netherlands
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www.verticaaldagen.net

Bices
September 22-25, 2015
Chinese construction equipment show, Beijing, China
Tel: 0086 10-52220946
Fax: 0086 10-82071356-810/811
www.e-bices.org/engdefault.aspx

ICUEE - The Demo Expo
October, 2015
The US show for the utility industry, Louisville, Kentucky, USA.
Tel: +1 866-236-0442
www.icuee.com

Giornate Italiane del Sollevamento
October 1-3, 2015 GIS - The Italian Cranes & Access Show Piacenza, Italy
Tel: +39 0523 60271
www.gisexpo.it

SAIE 2015
Bologna Fair, building products.
October 14th - 17th 2015,
Bologna, Italy
Tel: +39 051 282111
www.bolognafiere.it

2016
IPAF Summit
March 17, 2016
Annual Summit for International Powered Access Federation Madrid, Spain.
Tel: +44(0)15395 66700
Fax: +44(0)15395 66084
Website: www.ipaf.org

Rental Show 2016
Atlanta
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www.therentalshow.com

Bauma 2016
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2018
Intermat 2018
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| 351 PPM ATT 400/2 | 2000 | 4x4x4 | 30,40m + 15,00m |
| 401 Demag AC 40-I City | 1999 | 6x6x6 | 31,20m + 13,00m |
| 501 Terex Demag AC 50-I | 2006 | 6x6x6 | 40,00m + 17,60m |
| 501 Terex Demag AC 50-I | 2005 | 6x6x6 | 40,00m + 17,60m |
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| 551 Terex-PPM AC 55 | 2005 | 6x6x6 | 40,20m |
| 551 Terex-Demag AC 55 City | 2006 | 6x6x6 | 40,00m + 13,80m + 1,20m |
| 601 Faun ATF 60-3 | 2005 | 6x6x6 | 40,00m + 16,00m |
| 601 Faun ATF 60-3 | 2003 | 6x6x6 | 40,00m |
| 701 Grove GMK 4070-1 | 2000 | 8x6x8 | 38,10m + 16,00m |
| 701 Faun ATF 70-4 | 1998 | 8x6x8 | 40,50m + 16,00m |
| 801 Demag AC 80-1 | 1999 | 8x8x8 | 50,00m + 17,60m |
| 801 Tadano Faun ATF 80-4 | 2005 | 8x8x8 | 48,50m + 16,00m |
| 1101 Tadano Faun ATF 110G-5 | 2008 | 10x8x8 | 52,00m + 16,20m |
| 1301 Grove GMK 5130-1 | 2005 | 10x8x10 | 60,00m + 18,00m |
| 1401 Terex Demag AC 120-1 | 2006 | 10x6x8 | 60,00m + 17,00m |
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| Access Link | www.accesslink.biz |

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| Actual Access | www.actualservices.co.uk |
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| Cranes4Cranes | www.cranes4Cranes.com |
| Cranes UK | www.cranesuk.net |
| Crowland Cranes | www.crowlandcranes.co.uk |
| E.H Hassells | www.hassells.com |
| Electrogen Int | www.electrogen.ie |
| IMC Cranes | www.imc-cranes.com |
| Jones-Iron Fairy | www.jonesironfairy.co.uk |
| Kobelco | www.kobelco-cranes.com |
| Leader | www.leader-piatt.it |
| Maeda | www.maedaminicranes.co.uk |
| Mantis Cranes | www.mantiscranes.co.uk |
| M. Stemick | www.stemick-krane.de |
| NRC | www.nrcplant.co.uk |
| P.V. Adrighem BV | www.adrighem.com |
| Rivertek Services | www.rivertekservices.com |
| Terex Demag | www.terex-cranes.com |
| Hird | www.hird.co.uk |

Heavy Lifting Equipment

| | |
|-----------------|--|
| Lifting Gear UK | www.lifting-equipment.co.uk |
|-----------------|--|

Furniture Hoists

| | |
|------------------------|--|
| The Furniture Hoist Co | www.furniturehoists.co.uk |
|------------------------|--|

Crane Hire

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

Mini Crane Hire

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| Easi Up Lifts | www.easiuplifts.com |
| Easy Reach Scotland | www.easyreachscotland.co.uk |
| Emerson Cranes | www.emersoncranes.co.uk |
| GGR | www.unic-cranes.co.uk |
| Hire Maeda | www.maedaminicranes.co.uk |
| JT Mini Crane Hire | www.jtminicranes.co.uk |
| Lift Limited | www.liftminicranehire.co.uk |
| NRC | www.nrcplant.co.uk |
| Hird | www.hird.co.uk |
| Tracked Access | www.trackedaccess.com |

Self Erecting Tower Cranes

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|-------------------|--|
| City Lifting | www.citylifting.co.uk |
| Electrogen Int | www.electrogen.ie |
| John Sutch Cranes | www.johnsutchcranes.co.uk |
| King Lifting | www.kinglifting.co.uk |
| Ladybird tower | www.ladybirdcranehire.co.uk |

crane hire

| | |
|---------------------|--|
| London Tower Cranes | www.londontowercranes.co.uk |
| Mantis Cranes | www.mantiscranes.co.uk |

Tower Cranes

| | |
|----------------|--|
| Electrogen Int | www.electrogen.ie |
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Heavy Lift Management

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

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| DWLS | www.dwls.com |
| HLI Consulting | www.hliconsulting.com |

Ancillary Equipment

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|----------------------|--|
| TMC lifting supplies | www.tmc-lifting.com |
|----------------------|--|

Auction Houses

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|------------------|--|
| Ritchie Brothers | www.rbauktion.com |
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Battery Suppliers & Manufacturers

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|---------------------------------|--|
| Shield Batteries | www.shieldbatteries.co.uk |
| Trojan Battery | www.trojanbattery.com |
| Platinum Batteries (Europe) Ltd | www.platinumbatteries.co.uk |

Load Monitoring Systems

| | |
|--------------------|--|
| Force Logic UK Ltd | www.force-logic.co.uk |
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Control Systems

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

Generator Sales & Rental

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| Electrogen Int | www.electrogen.ie |
| JMS PLant Hire | www.jms-planthire.co.uk |

Insurance

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| Specialist Insurance | www.cover1.com |
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Online Technical Help

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

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

Parts & Service Suppliers

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

Innovations

| | |
|--------------------------------|--|
| Aerial & Handling Services Ltd | www.aerialandhandlingservices.com |
|--------------------------------|--|

Recruitment

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

Rental Management Software

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

Replacement Filters

| | |
|---------------|--|
| Plant Filters | www.plantfilters.co.uk |
|---------------|--|

Safety Equipment

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|------------------|--|
| AGS | www.ags-btp.fr |
| Airtek equipment | www.airteksafety.com |
| Heaton Trestle | www.heatonproducts.co.uk |

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|--------|--|
| Heaton | www.heatonproducts.co.uk |
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| | |
|-----------------|--|
| Scaffold Towers | |
|-----------------|--|

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|---------------------|--|
| Load Systems UK Ltd | www.loadsystems.com |
|---------------------|--|

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|---------|--|
| Marwood | www.marwoodgroup.co.uk |
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|------|--|
| SMIE | www.smie.com |
|------|--|

Software

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

Structural Repairs

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

Training Associations & Networks

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

Training Centres & Trainers

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|--------------------------|--|
| Access Platforms Direct | www.accessplatformsdirect.co.uk |
| IAPS | www.iapsgroup.co.uk |
| Active Safety | www.activereals.co.uk |
| Advanced | www.accessplatformsuk.com |
| Access Platforms | |
| UTN | www.utntraining.co.uk |
| Ainscough | www.ainscoughtraining.co.uk |
| A.J Access | www.accessplatforms.com |
| APL | www.apl-aerialplatforms.co.uk |
| Approved Safety Training | www.approvedsafetytraining.com |
| GT Access | www.gtaccess.co.uk |
| Lift-Manager | www.lift-manager.com |
| LTC Training Services | www.ltctrainingservices.co.uk |
| Nationwide Platforms | www.nationwideplatforms.co.uk/Training |
| Smart Platform Rentals | www.smartplatforms.com |
| Astra Access | www.astratraining.co.uk |

Safety Training

| | |
|---------------------------|--|
| Atlas Cranes UK | www.atlasgmbh.com |
| Avon Crane | www.avoncrane.co.uk |
| Brogan Group | www.brogangroup.com |
| Davis Access | www.davisaccess.co.uk |
| Easi-UpLifts | www.easiuplifts.com |
| Emerson Training Services | www.emersontrainingservices.co.uk |

Training Services

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

Traffic Management Services

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|-----------------|--|
| Sun Traffic Ltd | www.suntraffic.com |
|-----------------|--|

Wire Rope & Cable

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

Winches & Hoists

| | |
|---------|--|
| Rotzler | www.rotzler.com |
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Tyre suppliers

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| Mitas Tyres | www.mitas-tyres.com |
| OTR Wheel Engineering - OTR Europe | www.otrwheel.com |

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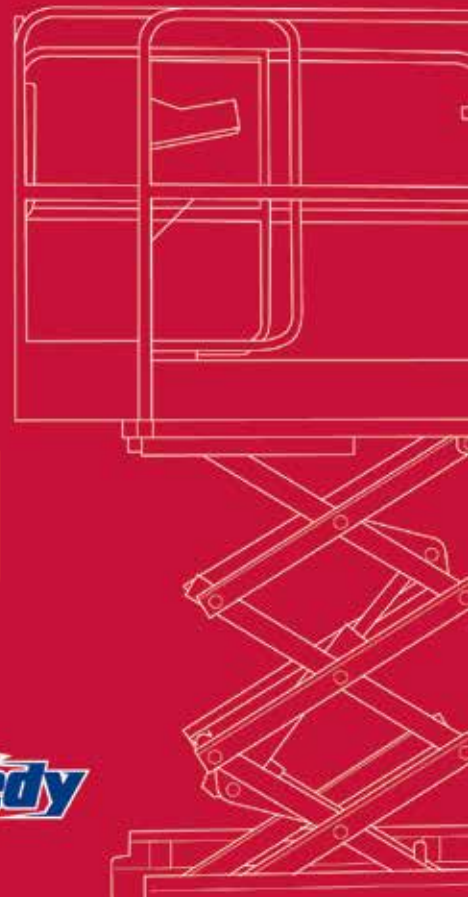
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V16969 - Haulotte Compact 8 - 2008
Electric - 8.20 Mtr. - 402 Hrs.
€ 4.500



V15409 - JLG 2646ES - 2008
Electric - 9.80 Mtr. - 262 Hrs.
€ 7.250 - NEW WHEELS!



V16523 - Skyjack SJ4632 - 2007
Electric - 11.80 Mtr. - 155 Hrs.
€ 6.500



V17163 - JLG 3369LE - 2001
Electric - 12.06 Mtr. - 1209 Hrs.
€ 7.500



V16618 - GSL S151 E12 - 2000
Electric - 17.20 Mtr. - / Hrs.
€ 7.500



V17002 - Genie GS3268RT - 2002
Diesel 4x4 - 11.75 Mtr. - 4053 Hrs.
€ 7.500



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



V17287 - Haulotte H15 SX - 2008
Diesel 4x4 - 15 Mtr. - 1222 Hrs.
€ 13.500



V15925 - Genie GS4390RT - 2009
Diesel 4x4 - 15.11 Mtr. - 1151 Hrs.
€ 25.500



V15373 - Haulotte H18 SX - 2005
Diesel 4x4 - 18 Mtr. - 1453 Hrs.
€ 14.950



V16396 - Manitou 80 VJR - 2009
Electric - 7.70 Mtr. - 269 Hrs.
€ 10.500



V16431 - Manitou 105 VJR2 - 2007
Electric - 10.30 Mtr. - 655 Hrs.
€ 9.500



V16763 - Genie Z30/20N - 2000
Electric - 11.14 Mtr. - 929 Hrs.
€ 9.950 - NEW WHEELS!



V17094 - JLG E300AJP - 1999
Electric - 11.14 Mtr. - 955 Hrs.
€ 9.250



V16705 - Haulotte HA12IP - 2011
Electric - 12 Mtr. - 310 Hrs.
€ 22.500



V17228 - Genie Z45/25RT - 1999
Diesel 4x2 - 15.90 Mtr. - 4723 Hrs.
€ 8.950



V16497 - JLG 600AJ - 2004
Diesel 4x4 - 20.29 Mtr. - 3651 Hrs.
€ 23.500



V16801 - Genie Z60/34RT - 1999
Diesel 4x2 - 20.39 Mtr. - 5022 Hrs.
€ 12.000



V16499 - Haulotte HA260PX - 2008
Diesel 4x4x4 - 25.60 Mtr. - 1505 Hrs.
€ 38.000



V17152 - JLG 1250AJP - 2008
Diesel 4x4x4 - 40.10 Mtr. - 4153 Hrs.
€ 87.500



V16671 - Genie S45 - 2003
Diesel 4x4 - 15.70 Mtr. - 2457 Hrs.
€ 11.500



V17147 - Haulotte H21TX - 2000
Diesel 4x4 - 20.80 Mtr. - 8059 Hrs.
€ 10.750



V17284 - JLG 660SJ - 2007
Diesel 4x4 - 22.32 Mtr. - 1014 Hrs.
€ 36.500



V17177 - JLG 1200SJP - 2007
Diesel 4x4x4 - 38.58 Mtr. - 3594 Hrs.
€ 77.500



V16506 - JLG 1350SJP - 2008
Diesel 4x4x4 - 43.15 Mtr. - 2721 Hrs.
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Genie S-45

2006 €24000 



20.22 metre
3000 hours
6 units available
4WD

Genie Z-60/34 JRT

2006 €36000 



28.04 metre
2600 hours
11 units available
4WD

JLG 860 SJ

2008 POA 



43.00 metre
3000 hours
8 units available
4WD

JLG 1350SJP

2008 POA 



13.00 metre
2000 hours
2 units available
Tracked

CTE 135

2010 €28500 



13.60 metre
5000 hours
5 units available
4WD

Manitou MT 1435

2006 €29000 



8.70 metre
800 hours
8 units available
Tracked

Maeda MC 285 CRM - E

2007 €40000 



20.60 metre
5000 hours
1 unit available
4WD

Manitou MRT 2150

2006 €70000 



17.07 metre
2000 hours
20+ units available
4WD

Skyjack 9250 RT

2007 €17750 



12.50 metre
2000 hours
20+ units available
4WD

Skyjack 7135 RT

2007 €15000 



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