

HAULOTTE UPDATES COMPACT RANGE

Haulotte has completely upgraded its Compact range of slab electric scissor lifts.

The five new models follow classic slab electric scissors in terms of overall width and platform heights etc. They include 20ft and 26ft narrow models with an overall width of 810mm, plus three 1.2 metre wide models with platform heights of 26ft, 32ft and 39ft providing working heights of 7.8, 9.8, 12, and 14 metres respectively.

The Compact 10N and Compact 14 are indoor only, while the other three have both indoor and outdoor ratings and platform capacities of 250kg to 450kg. The overall length of the units is 2.5 metres.

One major change is a move to synchronous AC direct wheel drive rather than hydraulic. However, the company has decided to go with rear wheel drive rather than the front steered wheels. The new chassis and scissor stack design are more rugged than the units they replace, with all critical components such as the drive motors and steering wheels fully integrated and protected from damage from crashing into obstacles while driving. All five units drive at full height and feature active pothole protection and 940mm roll out deck extensions. Folding guardrails are standard, while Haulotte's Sherpal telematics suite is optional as is the new Lidar secondary guarding system on the upper control box.



Haulotte's new Compact range

LIEBHERR TO UNVEIL HYDRAULIC LUFFER

Liebherr has confirmed that it will have a prototype of its first ever hydraulic luffing jib tower crane - the 195 HC-LH 6/12 - at Bauma in October which promises to bring new ideas to the market. The 195 HC-LH 6/12 can manage up to 2,550kg at the jib tip and maximum radius when installed on the 1.6 metre square 16 EC tower system which can also be climbed.



Only basic specification details have been released at this point, although the company says the new crane will "stand out from the crowd and will be easy to erect and very simple to transport." It will also incorporate the company's latest technology with features such as Litronic assistance and 'Micromove', the operating range limiting system, 'level luffing' and other Smart assistance systems and technologies.

HINOWA RISES TO 40M

Hinowa will unveil a new 40 metre spider lift at Bauma in October, alongside a new Lightlift 18.80 Performance.

The 40 metre twin boom LL40.18 will have an outreach of 17.5 metres at an up & over height of 10 metres, or 17 metres outreach at an up & over height of 23 metres. It can also reach four metres below ground level. The maximum capacity is 300kg throughout most of the working envelope, reducing to 230kg for the last metre of outreach.

Overall stowed length with the basket removed is 6.82 metres while the overall width can be varied from 1.2 to 1.69 metres. All up weight ranges between 8,700 and 8,900kg and the machine can jack itself to a clear height under the tracks of 1.12 metres.

The new Lightlift 18.80 Performance will fit between existing 17 and 20 metre Hinowa models, offering a working height of 18.5 metres and an outreach of 7.8 metres with the 230kg unrestricted platform capacity. The all up weight varies between 2.77 and 2.97 tonnes depending on power.



Hinowa 40m



The new Lightlift 18:80

BATTERY ELECTRIC BÖCKER CRANE

German aluminium crane manufacturer Böcker has launched a new 230volt/battery electric truck crane - the four tonne capacity, 36 metre tip height AK 37e. Its previous electric powered cranes required a 400 volt power source, something not always available when working on a residential job site.



The Böcker's 'e' electrics

Böcker has achieved this by employing a battery pack between the regular AC mains input and the crane's drive line. The AK37e is also far more energy efficient than its high voltage/three phase predecessor. The lithium-ion battery pack allows the crane to be operated autonomously for what the company describes as 'a long time', but it can also be operated continuously when plugged in to a regular domestic supply, with the charger topping up the batteries as rapidly as the crane draws power from them. It can also be operated from the diesel chassis via the usual Power Take Off system.



The new Böcker AK 37e with platform attachment

NEW JEKKO MINI PICKERS

Jekko has launched its new 990kg battery powered Mini Picker pick & carry crane/glass handler - the MPK10 - following the success of its 660kg MPK06. The MPK10 follows the same basic design as the MPK06 and features 3.5 metre three section boom with a maximum tip height of almost 4.5 metres. It can lift 430kg at its maximum radius of 1.75 metres and offers up to nine degrees of slew either side of centre - 18 degrees in total.

The overall width of the crane is 955mm, stowed length is 2.28 metres and overall height 1.5 metres. The total all-up weight is 1,200kg with full counterweight, or 970kg without the removable counterweights. Off-road run-flat tyres with twin front wheels are available for improved traction and stability on uneven ground but increase the overall width to just over 1.14 metres. With the side outriggers deployed the width is 2.6 metres. Maximum travel speed is 4kph.

As with the MPK06, the new model is equipped with two 12 volt/155Ah traction batteries powering an electric motor and pump, with direct electric wheel motor drive which permits simultaneous operation of three functions without cross interference. The standard remote controller is wired, while a new radio remote controller is available as an option, which can control both the machine and manipulator.

Sales director Alberto Franceschini said: "The MPK10 - as well as the new MPK20R to be unveiled at Bauma - are part of Jekko's next generation of products in the Mini Picker range, destined to meet the requirements of customers asking for user friendly, simple, safe and reliable machines."



The Jekko MPK10



The Jekko MPK10 with glass handling attachment



Standard and optional remote controls

FOUR NEW LITHIUM LGMG BOOM LIFTS

LGMG is to introduce all electric versions of its recently launched 65ft, 72ft, 85ft and 92ft diesel dual capacity telescopic boom lifts. The new models - initially intended for international markets outside of North America - are the T20JE, T22JE, T26JE and T28JE with working heights of 21.8, 23.8, 27.9 and 29.8 metres respectively, and outreaches of 16.6, 17, 22.3 and 22.5 metres.

The units are powered by a large Lithium-Ion battery pack sufficient to run all models for two to three days at typical usage rates. A variety of standard charging modes allow both regular and fast charging as well as complying with various outputs.



The 85ft LGMG T26JE all electric boom lift

BAUMA LAUNCH FOR GROVE GMK6400-1

The new 400 tonne Grove GMK6400-1 All Terrain crane will make its public debut at Bauma. The new crane has been first seen 'in the iron' at a customer event at the Wilhelmshaven factory last October. It features a five section 60 metre main boom, a new Stage V/Tier 4 Final diesel driving an upgraded hydraulic system, while 'MegaDrive' hydrostatic drive, variable outrigger set up and CCS operating controls are all standard.

The six axle crane can be equipped with up to 79 metres of luffing jib for a 136 metre maximum tip height, while Grove's Mega Wing Lift self-rigging Superlift system increases capacities by up to 70 percent on the main boom and 400 percent on the luffing jib.



Grove GMK6400-1

TADANO UPGRADES 180T TELECRAWLER

Tadano has announced the harmonisation of its telescopic crawler crane range nomenclature and upgraded its 180 tonne GTC-1800EX to a 200 tonne 'class' crane, the GTC-2000. The upgrade does not involve structural modifications but is a software change, with new load charts for a fixed position with no slew, and one for up to 180 degrees slew. The crane has a maximum load moment of 585 tonne/metres which would give a theoretical nominal capacity of 200 tonnes at a radius of 2.93 metres, but it is formally rated at 2.5 metres. The upgrade is available immediately with all new shipments being the GTC-2000.

The rest of the telescopic crawler crane line - all of which are built at the Mantis plant in the USA - will adopt the North American nomenclature later in the year which uses US tons rather than metric tonnes and the EX suffix will be dropped.

So, the GTC-350EX becomes the GTC-350, the GTC-500EX changes to the GTC-550, the GTC-600EX becomes the GTC-700, the GTC-800EX changes to the GTC-900, the GTC-1200EX switches to the GTC-1300.



Tadano GTC 2000

FATAL UK BOOM OVERTURN CASE FINALLY CLOSED

A UK court has finally concluded the investigation and subsequent legal process that began on June 5th, 2013, when a new Genie Z-135/70 platform from the Kimberly Access rental fleet overturned with its basket landing on the M-25 motorway near Heathrow Airport, killing the operator Richard (Rick) Jaeger-Fozard, 29, the foreman at Kimberly's Iver depot.

The investigation identified an error in the calibration of the angle sensors for the lower boom/riser, discovering that it was possible to mis-calibrate them so that the boom was six degrees short of the minimum elevation angle required for safe operation throughout the working envelope. Following the incident, Genie issued a safety notice alerting owners to check and verify the calibration of the lower boom angle sensors, and followed up in early 2014 with a software modification to prevent such cases of 'human error' from occurring.

It then took the UK's Health & Safety Executive nine months to issue a non-committal notice simply stating: "The emerging findings from the HSE investigations indicate that the operational stability of a Genie Z135/70 mobile elevated work platform may be compromised by the incorrect measurement of the boom angle sensors."

More recently the HSE wrote to the directors of Kimberly Access stating that they and the company would not be subject to prosecution, effectively exonerating them from contributing to the incident. While all three parties involved agreed that human error involved with calibrating the machine was to blame for the overturn, there was a debate over who, when or how that calibration error was made.

The HSE has now issued a statement saying: "The mis-calibration occurred through incorrect data being manually manipulated and uploaded onto the machine via a laptop using password protected WebGPI software. The carrying out of warranty repairs on the machine during this period, including granting access to the WebGPI software, fell within the conduct of Genie UK Ltd's undertaking."

It has however avoided placing any blame on any individual.

Genie pleaded guilty under Section 3 (1) of the Health and Safety at Work Act 1974 and was issued with a £270,000 fine plus £165,175 in costs, and the case has now been closed.

See: <https://vertikal.net/en/news/story/40075/fatal-uk-boom-overturn-case-concluded-for-the-full-report-and-genie's-statement>



JCB VS MANITOU PATENT SAGA CONTINUES

The UK Patents Court in London has ruled that Manitou infringed certain aspects of JCB's European Patent EP (GB) 2 616 3824 relating to stability control systems on telehandlers it sold in the past.

However, the court dismissed JCB's

claims that Manitou had infringed three other patents, finding its claims to be invalid in their entirety. The judgment followed a six day hearing in November last year. The case will now be referred to a further hearing where JCB will ask the court to issue an injunction restraining further infringement and an order to assess damages and costs with interest.

Manitou on the other hand said: "While reserving the right to appeal this judgment, it does not have a significant impact on our business in the UK, nor on our customers. We will now seek payment from JCB for all costs relating to the claims pursued by JCB but rejected by the Court, as well as interest on those sums."



MANITOWOC WITHDRAWS FROM CONEXPO

In a surprise announcement Maniowoc - Grove, Potain and National Crane - has pulled out of next year's Conexpo in Las Vegas.

Chief executive Aaron Ravenscroft said: "Over the last 18 months, Maniowoc has taken a multitude of actions to manage inflation. Due to the several price increases that we have passed on to our customers, we do not believe it's appropriate to invest in a second, large tradeshow at this time. We continue to invest heavily in new products and as an alternative to Conexpo we intend to host a Crane Days event at our Shady Grove, Pennsylvania location at a later date."



DINGLI OFFERS HYBRID OPTION

Dingli has announced a new hybrid/range extender option for all of its 4x4 electric boom lifts.

Buyers have the option to add a small diesel power pack with built in generator which can top up the lithium ion battery, either when the lift is in use or as a remote recharging system. The option is aimed at sites where there are few or no recharging points. The company says that with a full tank of fuel, the machine can operate for a full 30 working days without the need for refuelling. The option is available on all Dingli booms over 66ft/22 metres.



Dingli electric boom with 'range extender'

NEW CRANE LINE FROM FERRARI

Italian loader crane manufacturer F.lli Ferrari has launched a new line of three mid-range loader cranes creating the new 6000 Series. The units - built to European standards but primarily aimed at the non CE market - are very similar to the three new models unveiled under the Hyva brand (see page 10). They include the 9.6 tonne/metre 6108B which has a maximum lift height of 17.3 metres and weighs between 1,230kg and 1,590kg, the 13.9 tonne/metre 6148B with a maximum lift height of 18.8 metres with an all up weight of between 1,680kg and 2,240kg and the top of the line 19.3 tonne/metre 6238B which has a lifting height of up to 23.3 metres and weighs between 2,280kg and 3,135kg.



All three cranes can be equipped with between one and six telescopic boom sections, or up to three manual sections in place of hydraulic sections. They also benefit from improved structural components, paint prior to assembly, new hydraulic oil tanks, new outrigger controls, an improved load limiting device and a new, more user friendly control station. The HC-D4 electro-hydraulic valve block/distributor is an option, combined with a choice of radio remote controllers from Hetricon or Scanreco.

QUINTO AUCTION RESULTS

The Euro Auctions sale of 22 cranes from UK crane rental company Quinto - which went into administration in early May - raised £5.1 million. The highest bid was £630,000 for a 2014, six axle 350 tonne Grove GMK6300L All Terrain crane with 80 metre main boom.

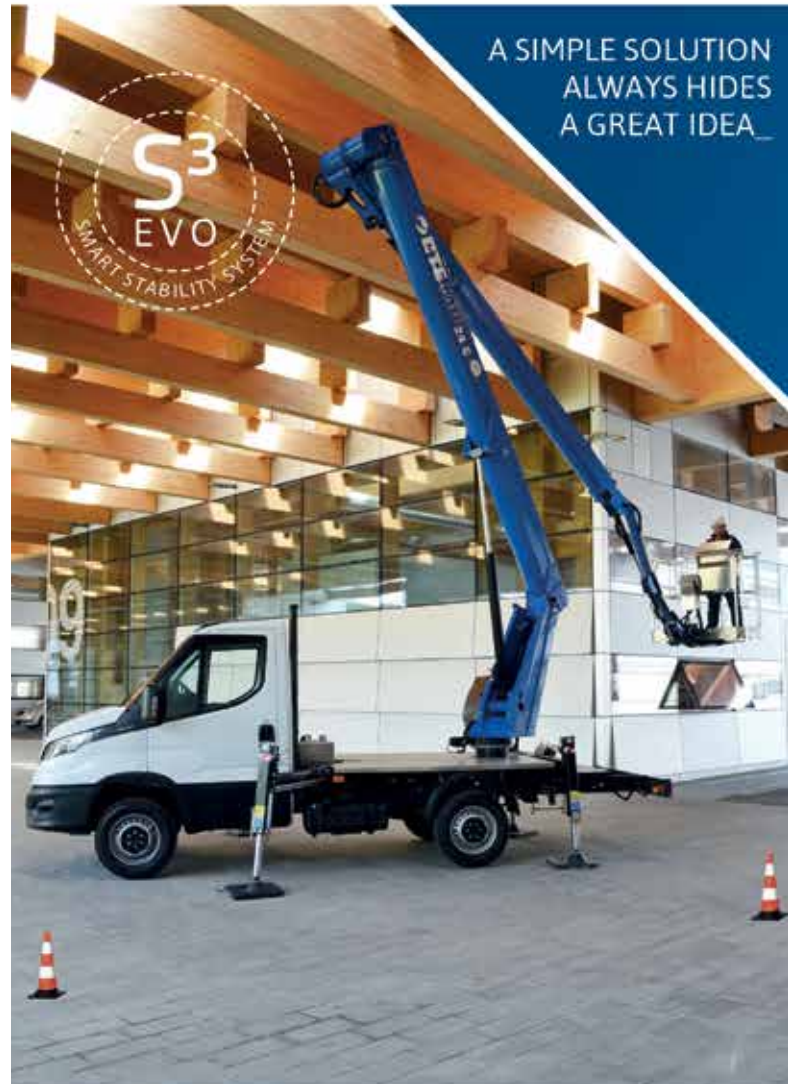
Other notable sales included a four axle 115 tonne Grove from 2015 purchased by an Irish buyer for £305,000 while a five axle 130 tonne Tadano ATF130G-5 fetched £354,000. A four axle 2016 Spierings SK597-AT4 mobile self-erecting tower crane went for £372,500 while a 35 tonne two axle Terex AC35L non-runner dating from 2005 went for £30,000.

See the full results:

<https://vertikal.net/en/news/story/40064/quinto-auction-results>



The Spierings SK597-AT4 fetched £372,500



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THREE NEW EFFERS

Hiab has announced the launch of three new Effer high capacity loader cranes - the 110 tonne/metre iQ.1200 HP, the 51 tonne/metre iX.550 HP and 32.1 tonne/metre iX.355 HP - all of which feature lower fuel consumption and its new SPACEevo operating system which claims to improve productivity and safe operation.

The compact Effer iQ.1200 HP features a new lightweight dodecagonal - 12 sided - profile boom and jib for improved lateral and vertical rigidity. Weighing between 9.02 and 9.4 tonnes making it a practical crane for a four axle chassis. It can handle 17.8 tonnes at a 4.5 metres radius with the 10 section boom - or 18.5 tonnes with the shorter versions - but has a maximum rating of 30 tonnes. It can also manage 2.65 tonnes at a 24.5 metre radius and take it to a tip height of more than 27 metres.



The Effer iQ.1200 HP

With the jib installed the maximum radius is 34 metres with a capacity of 760kg, which it can also take to the maximum tip height of 38 metres with a six metres radius. Maximum jib capacity is 5.1 tonnes, available at heights of up to 24 metres and a radius of 10 metres.

The Effer iX.550 HP has a 51 tonne/metre rating and boasts a 21.8 metre maximum radius on the main boom with nine hydraulic sections, or up to 33 metres with boom, jib and manual section. Total weight ranges from 5.3 to 7.5 tonnes. The E-6, E-7 and E-8 versions are all available with optional 150X-6 jib. 360 degree continuous slew is standard.



The Effer iX.550 HP

The Effer iX.355 HP has a 32.1 tonne/metre rating, while offering up to 21.8 metres of outreach on the boom with eight hydraulic sections, or 28 metres when topped with the 70X4 jib. Slew is limited to 420 degrees.

All three cranes feature the SPACEevo control system, which is said to enable even moderately skilled operators to operate the crane precisely at high speeds. It also offers advanced safety and productivity features such as VSL+ which can maximise the lifting capacity by calculating the stability according to the position of the stabiliser legs and the total weight of the truck and its load. All three cranes are available to order now.

HYVA ADDS TO NON CE RANGE

Loader crane manufacturer Hyva has extended its HB mid-size basic loader crane range with three new models, the HB102, HB152 and HB202 with capacities of 10, 15 and 20 tonne/metres respectively.



The booms have between one and six extensions, while the HB152 is available with the E3J2 jib and the HB202 with the E5J2 jib. The company defines the new models as Core Line cranes developed for non CE markets while featuring a modern design and improved controls.

The new models incorporate an improved structural design, paint before assembly, new oil tanks, stabiliser controls and load limit devices, as well as a new user friendly control station. Radio remote controls - HC-D4 Hetronic or Scanreco - are also available. The cranes support a range of accessories including winch, additional functions for attachments, oil cooler, working lights and an audible/visual warning device.

NEW SHIPMENT RECORD FOR DINGLI

Chinese aerial lift manufacturer Dingli shipped 451 units on a single day - June 24th - setting a new record for the number of units leaving its factories. The company's previous 'record day' was set in March 2021 when it shipped 427 units.



A major difference between the two records is that more than 90 percent of the new record were battery powered. The shipments also included 50 all electric boom lifts along with a large number of heavy duty electric Rough Terrain scissor lifts, with working heights of up to 32 metres.

Destinations for the shipments included the United States, the UK, the Netherlands, Italy, South Korea and India as well as the domestic market. The company said that its order books remain strong, suggesting that the record shipment levels will continue, with a chance that a new record may be set before the year is out.



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ABILITY

SAVING A BIT OF CRANE HISTORY

UK service company Crowland Cranes has completed and handed over a fully restored six tonne Hydrocon Highlander mobile lattice boom crane to John Sutch, founder of Liverpool based John Sutch Crane Hire to mark his 70th birthday. Sutch had asked Pete Issitt of Crowland if he could find and restore a Highlander having seen Crowland's previous classic restoration projects - a Grove Allen T664 in Crowland's own rental fleet colours and a Coles Hydra 120T for Barry Barnes at Mann Crane Hire - both of which were shown at Vertikal Days when completed.

In 1973, the 20 year old Sutch joined Stoneycroft Crane Hire of Liverpool as an operator, where his first crane was a Hydrocon Highlander. He continued to operate cranes for a further 17 years before starting his own crane business.

Crowland found the crane in November 2018 in a very poor state of repair parked up in a small, wooded area in Tonbridge, Kent. Although a serial number was never

found, its registration plate revealed it was first registered in May 1966 as a Hydrocon two axle rigid body diesel - colour brown. The last time it was taxed for the road was December 1985 when it was owned by Savage cranes.

Crowland stripped the crane back to its base metal and carried out a complete rebuild over a two year period, completing it in April of this year. The finished crane being 'as new'.

Speaking of the new crane, which now takes pride of place outside the company's offices in Liverpool, John Sutch said: "I love it, they did a great job, it really is like a new crane and could go out working today."

See page 73 for a potted history of Hydrocon.



The fully restored Hydrocon Highlander



The crane was found in the woods



The rebuild underway



The cab with original tartan interior



Stripped back to bare metal

THINK

- PLANT INSTALLATIONS
- TOWER CRANE HIRE
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FINANCIALS ROUND-UP

TIME ACQUIRES FE GROUP

Time Manufacturing has acquired French truck and van mounted lift manufacturer FE Group which includes France Elévateur and its Spanish affiliate Movex which it acquired last year. The deal also includes wholly owned distribution outlets FE Benelux and FE Deutschland.

Versalift International's managing director Kim Bach Jensen will head the company's merged operations in Europe which now include Versalift, Ruthmann, Bluelift, Movex and FE.



KONECRANES PROFIT WARNING

Finland's marine and industrial crane and handler manufacturer Konecranes has issued a full year profit warning expecting full year sales to come in at a similar level to the €3.2 billion achieved last year. The company said demand remains good, but supply chain and Covid-19 challenges continue to impact deliveries in the second quarter.

KONECRANES

SPANISH ACQUISITION FOR MATECO

Mateco has acquired Spanish rental company Elevaciones Rama in an all share purchase deal from previous owner Meifus Global Holding which acquired the business in 2014. Elevaciones Rama is based in Galicia - north west Spain - with a fleet of around 1,500 units and revenues for the past year of around €14 million. The acquisition takes Mateco Spain's branch network to 22.



STRONG FIRST HALF FOR BRAVI

Bravi Platforms has reported a 20% increase in revenues and a 60% rise in order intake for the first half of 2022. Production of the Leonardo HD is now 66% higher at 25 units a day while Sprint production has increased 50% to 15 units a day.



SOLID YEAR FROM FARESin

Faresin's has reported an 18% increase in revenues to €58 million, while pre-tax profits increased almost 14% to €4.9 million. Units shipped was up 18%.



€96 MILLION STATE LOAN FOR HAULOTTE

Haulotte has secured a €96 million one year state guaranteed loan. The company said: "The purpose of this loan is to allow Haulotte to maintain all its agility to face the many hazards and uncertainties the group is confronted with and could confront in the future."



STRONG FIRST HALF FOR EASYLIFT

Easylift has reported a 20% increase in new machine shipments, while revenues are set to increase almost 30%. The company has not divulged actual numbers.



UPERIO TAKES COMPASS

French international tower crane group Uperio has acquired US tower crane and hoist rental company Compass Equipment of Gilbert, Arizona, adding three further locations in Denver, Colorado, Los Angeles, California and Las Vegas, Nevada. It operates a fleet of 45 tower cranes and 45 hoists with 70 employees. Compass is a Potain tower crane dealer and has a long standing partnership with Alimak.



ANOTHER STRONG YEAR FOR ASHTEAD

Ashtead has reported a 19% jump in revenues to \$7.96 billion for the year to April 2022 led by Sunbelt USA but also strong contributions from the UK and Canada. Pre-tax profits for the year rose 35% to \$1.67 billion. Net debt increased from \$5.8 to \$7.16 billion driven by \$1.3 billion spent on 25 'bolt on' acquisitions, \$414 million spent on share buy backs and more than \$2 billion of net capital expenditure.



BES ACQUIRES NOTUS HEAVY LIFT

UK-based Notus Heavy Lift Solutions has been acquired by testing, inspection and certification group British Engineering Services. Notus was established between 2014 and 2015 by James Mohammed and Wesley Walbera. Walbera has left the company while Mohammed remains as managing director.



ANOTHER ACQUISITION FOR ABLE

US-based Able Equipment has acquired the equipment rental assets and service operations of Extreme Rentals of Manassas, Virginia. The entire Extreme team will remain with the business and the location becomes Able's seventh branch, expanding its footprint southward into the mid-Atlantic Region.



ALIMAK ACQUIRES TALL CRANE...

Swedish, International hoist, mastclimber and building maintenance platform manufacturer Alimak is to acquire Canadian crane and hoist rental company Tall Crane Equipment in an all-share purchase deal. Alimak will pay C\$27 million in cash on a debt free basis. Plus, a possible further C\$13 million on the 'fulfilment of certain performance goals regarding sales and profit'. Tall Crane had revenues last year of around C\$16 million.

ALIMAK GROUP



...FOLLOWING SOLID FIRST HALF

Alimak, has published its half year results to the end of June with revenues up 12.1% to SK2.1 billion (€192.4 million), while orders improved 15.8% to SK2.3 billion (€220 million) with increases from all three main divisions. Pre-tax profit increased 16% to SK218 million (€21 million).

ALIMAK

23% LIFT FOR HIAB

Loader crane manufacturer Hiab has reported a 23% increase in revenues to €744 million for the first six months, while order intake was 8% higher at just over €1 billion. Operating profit for the period jumped 45% to just over €106 million. The order book at the end of June was €1.25 billion, up 27% on the year.



MIXED RESULT FROM KALMAR

Hiab's sister company Kalmar reported first half revenues 18% higher at €1.07 billion. Operating profit declined 22% to €35.9 million due to write-offs associated with the transfer of its heavy crane business to Rainbow Industries, otherwise it would have been 30% higher at €69.9 million.



LEAK CONTAINMENT PATENTS

MEC Aerial Work Platforms has been awarded final patents for its Leak Containment System (LCS) in the US, Canada and Europe.



The system uses integrated trays within a slab electric scissor or mast lift and unlike external add on systems such as diapers, does not interfere with any basic functions such as the pothole protection system, steering, static strap or access to emergency stops and ground controls. The trays are also protected from the weather, debris or forklift damage. MEC claims that the patents (US Patent No. 11,112,060, European Patent No. 3,437,962 and Canadian Patent No. 3,021,925) are extensive and all encompassing. And yet several other manufacturers have adopted similar systems....



KALMAR TO 'EXIT' HEAVY CRANES BUSINESS

Finnish marine crane and handling equipment manufacturer Kalmar - part of Cargotec - has agreed to transfer the intellectual property and assets relating to its heavy crane product line - Rubber Tyred Gantry, Rail Mounted Gantry, ship to shore and automatic stacking cranes - to RIC (Rainbow Industries Co) which currently assembles them at its facility in Taicang, China. RIC has been Cargotec's Original Equipment Manufacturing subcontractor since 2020 when the two parties agreed to end a joint venture in China agreed in 2011.



Kalmar RTG cranes will now transfer to RIC

As part of deal around 40 Kalmar employees based in China are expected to transfer to RIC. The planned changes are due to occur in September when the deal is due to complete, but is subject to approval from Chinese authorities.

In the future, Kalmar aims to focus on 'eco-efficient cargo handling equipment' such as its new electric reach stackers, straddle and shuttle carriers, as well as after sales support, which it now refers to as 'lifecycle services' and crane automation and related services.

Preliminary estimates suggest Cargotec will take a €36 million hit to its 2022 results due to associated restructuring costs.



A Kalmar 'eco efficient' reachstacker

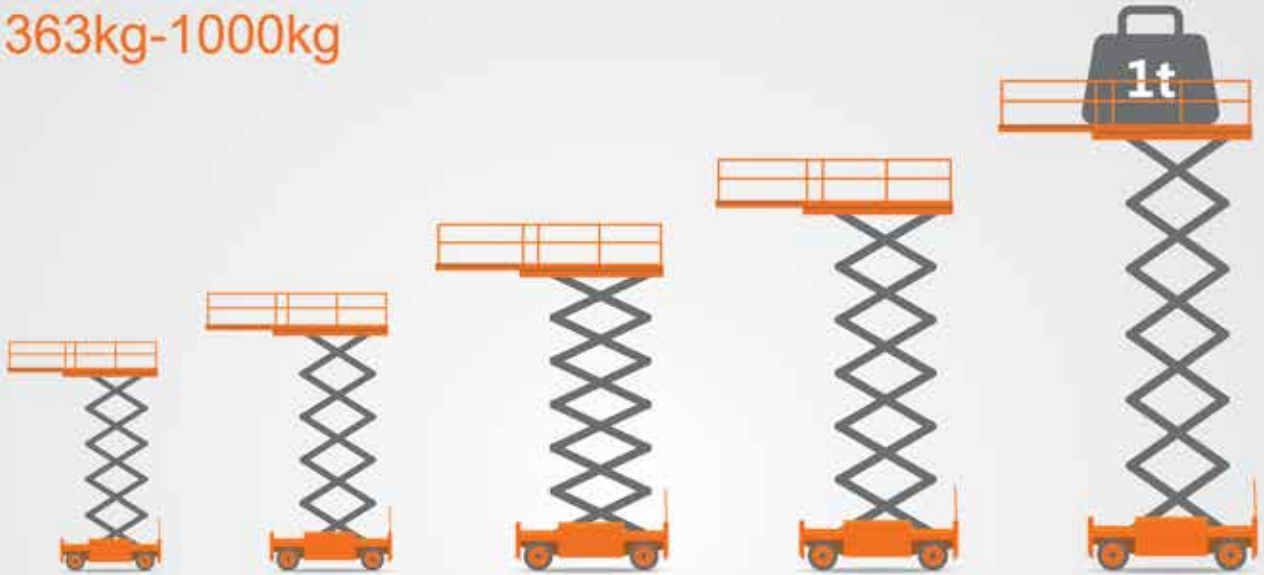


JMG Cranes S.p.A.

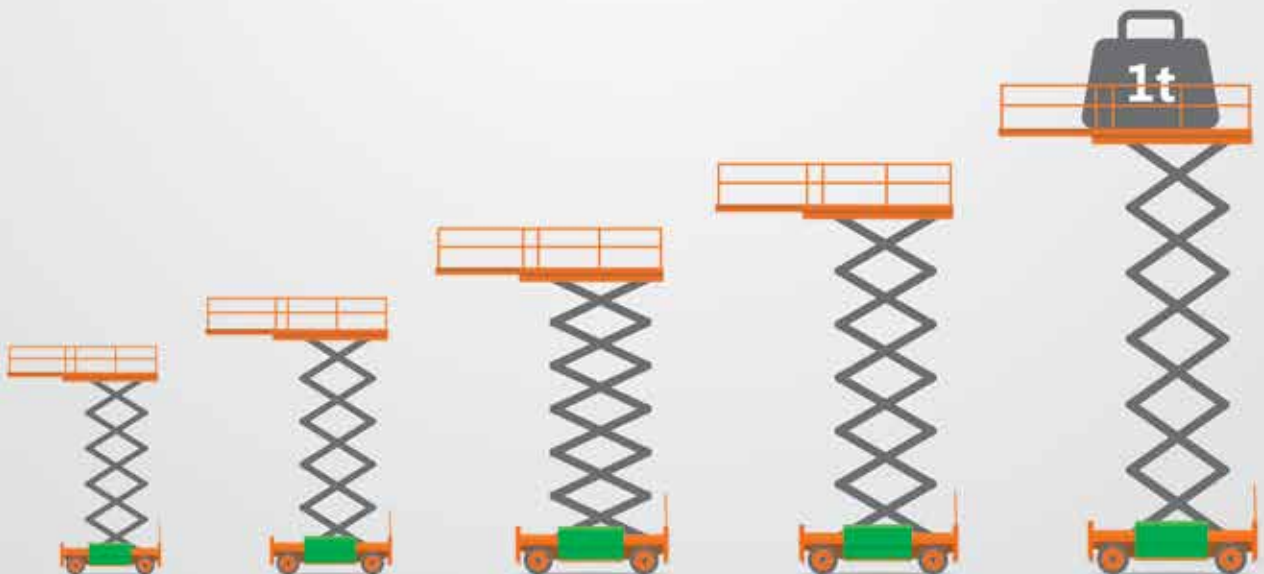
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