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Bauma preview- Part II

With Bauma just weeks away, here is the second part of our look at the new products that are expected to be launched at the show. Some companies are holding on to details of any new products until the show itself. Some of these will make it into the last minute Vertikal Bauma guide, while others will be covered in the Bauma review in the April/May issue of *Cranes & Access*.

Easy Lift

Italian aerial lift manufacturer Easy Lift is to launch the new 30.2 metre RA31 articulated tracked spider lift which has a 14.5 metre outreach at an up and over height of 15 metres. The new machine has a three section telescopic riser/lower boom and three section top boom, topped by a 1.8 metre jib with 170 degrees of articulation - the first Easy Lift with this configuration. Maximum platform capacity is 230kg. The unit on the stand will be a hybrid - diesel/battery - version, with 48 volt lithium ion battery back and AC drive motor in addition to the diesel which is compliant with latest global emission standards.

The battery pack can be charged with the diesel/onboard hydraulic generator working through the onboard high speed charger. The

boom is manufactured from high strength thin wall Strenx steel allowing a larger cross section design to reduce flex and add rigidity. Overall stowed width is 890mm and overall height 1.9 metres, while the overall length with the basket removed is 6.1 metres. Total weight of the hybrid model is 4,300kg with standard Scanreco radio remote controls.

Genie

Genie will concentrate on new lithium powered products at show, including its new lithium ion battery pack option for its slab electric scissor lifts. The pack is fully compatible with the Delta-Q charger, Genie Lift Connect telematics and Genie Tech Pro Link device connections. The company has focused on faster and opportunity charging, along



Genie will show its new lithium ion battery pack option for its slab electric scissor lifts



Easy Lift RA31



Jaso will show the upgraded J560 with its modular counter jib and 'lay flat' counter weights

with low maintenance rather than longer run time between charges. Genie will also launch two or three new electric Rough Terrain booms, along the lines of its Z-60/37 E with lithium ion battery packs. While the company has not revealed any details, expect them to include lithium versions of the Z45/25J and Z51/30J.

Jaso

Although not on the stand, Jaso will present its latest cranes - the J1400 hammerhead and J780PA luffer - in video form. The 700 tonne/ metre J780PA, is already operating in Sydney, Australia while the first J1400 is currently being tested

before delivery to customer in Asia. The J1400 has an 80 metre jib, with a 64 tonne maximum capacity and can handle 10.5 tonnes at the jib tip. Exhibits on the stand include the upgraded J560 with its modular counter jib and 'lay flat' counter weights, the brand new JL25 operator lift and the redesigned GE1537 construction hoist - the first in a new line of construction hoists.

Jekko

Last month we highlighted Jekko's new JF990 tracked crane, the hybrid version of model SPX1280HYB and the lithium ion battery version of the SPX532. The company will also unveil the MPK06 and the MPK12



Jekko SPX 536

'mini pickers' which have 600kg and 1,200kg capacity respectively. Both have four wheels instead of three and can be equipped with off road tyres and glass panel manipulators.

AMCS technologies

AMCS technologies will launch a new IoT Lifting telematics programme that collects the information transmitted by its new DCS 61-S anti-collision system and transmit it to a web portal, generating statistics for each job site and company.

The DCS 61-S calculates the distances between the cranes and their loads in three dimensions and merges this data with the actual real time movement speeds to maintain safe distances between each crane, automatically bringing them to a stop in the event that they stray into predetermined proximities or no-go zones. The 3G/4G network of the system's SIM card is then able to store, send and receive information on the IoT Lifting web portal. Customers can access data relating to each crane and construction site with personal logins and passwords.



AMCS will also reveal its SUP BIM construction site supervisor

Comansa

Spanish tower crane manufacturer Comansa will show its latest high capacity model - the 50 tonne 21LC1050 flat-top - launched at the end of last year. Designed for large industrial or infrastructure projects as well as construction with heavy precast or steel structures, the crane has an 80 metre jib tip, high speed hoists with speeds up to



The XL Cube cab is the largest from Comansa.

300 metres a minute and has the capacity for 1,570 metres of wire rope.

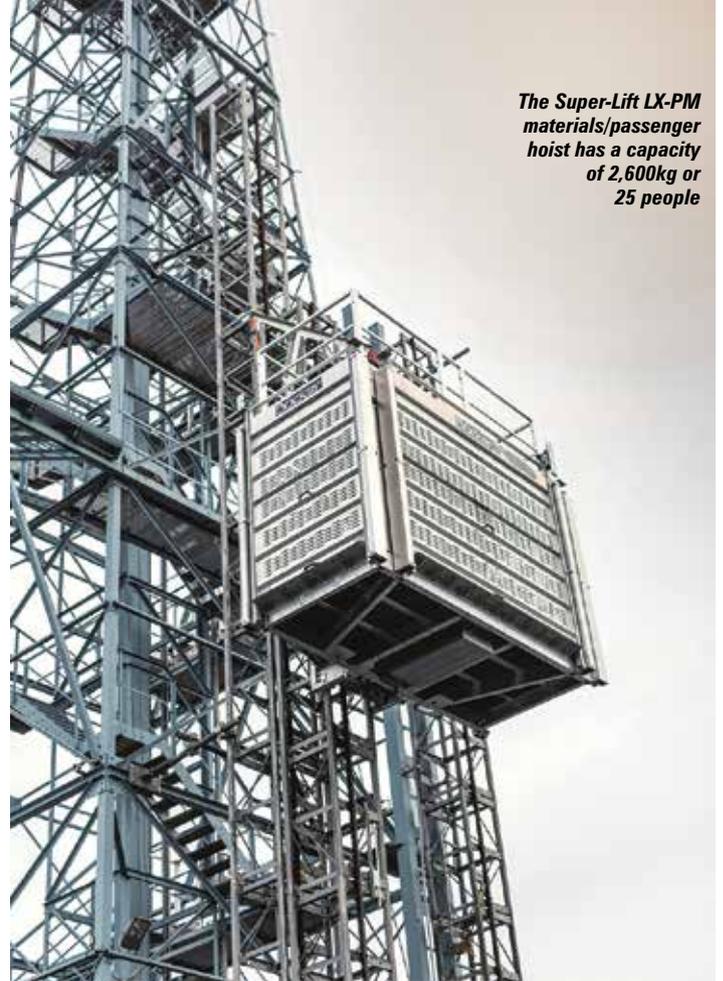
A new modular counter jib allows up to six different configurations to suit the application. The crane at Bauma will be fitted with a 27 metre counter jib radius and a 50 metre jib. The XL Cube cab - the largest from Comansa - will also be shown at ground level.

Böcker

Böcker will show several new models including the 12 tonne, 52 metre AK 52 aluminium truck crane with a new work platform that can be extended to 3.5 metres, with 600kg platform capacity and has 400 degrees platform rotation.

The company will also show an electric drive AK 46/6000 truck crane which can be powered on site by a 400 volt three phase supply. If no power is available the crane can be operated using the truck's regular auxiliary drive. Böcker's RK 36/2400 crawler/spider crane will also be on show with electric drive option and the AHK 36 and AHK 30/1500 KS trailer cranes which are also available with electric power.

A new compact tracked inclined materials lift - the Junior HD 24 -



The Super-Lift LX-PM materials/passenger hoist has a capacity of 2,600kg or 25 people

can lift up to 250kg to a height of 23.7 metres. And from its furniture lift range the company will show its most powerful model - the Agilo HL 55 - which has a 400kg capacity and can reach up to 55 metres. Böcker will also have the new Super-Lift LX-PM materials/passenger hoist on display with a capacity of 2,600kg or 25 people and lift to a height of up to 200 metres at speeds of up to 40 metres a minute. Features include a gentle start and stop for reduced wear and tear on components. It can be operated without a lift attendant, in accordance with EN 12159 and is equipped with an intelligent control, so that it automatically stops at the individual landings.

Kato Cranes

Kato Mobile Cranes returns to Bauma after an absence of almost 20 years with several new products from its City crane range including the 13 tonne CR-130f and 20 tonne CR-200Rf. It will also launch a

new 25 tonne CR-250R-V with the first units arriving in Europe later this year. The new crane has a full power 29 metre main boom and 8.5 tonne searcher hook as standard. Also available is a 5.7 metre hydraulic telescoping luffing jib, a 360 degree 'birds eye' view camera, a Cummins Stage V diesel and ABS braking system. The crane has axle weights of less than 12 tonnes and a 2.42 metre tail swing.

Kato will also launch the 100 tonne four axle KA1000Rx - a single engine All Terrain crane with 51.3 metre pinned boom and a three section 8.8 to 20.4 metre hydraulic luffing telescoping jib. Designed mainly for the Asian market, it features a Mercedes Stage IV engine, an Allison 4000SP-R 6 speed Transmission, Kessler Axles and a Knorr-Bremse/Wabco braking system with ABS.



The 100 tonne four axle Kato KA1000Rx.

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Link-Belt

Link-Belt will launch of its all-new 110 tonne two axle Rough Terrain crane - the 120 RT - with six section 50 metre pin & latch boom, topped by a 10.7 to 17.7 metre bi-fold swingaway which can be installed inline or manually offset at 15, 30 or 45 degrees. Two additional 4.9 metre lattice inserts take the maximum tip height to 79.8 metres. The crane includes a 13.2 tonne, three slab hydraulically removable counterweight and has a working weight of less than 56.5 tonnes depending on extensions. With counterweight removed it comes in at 42.85 tonnes and has an overall height of 3.91 metres for relatively easy transport.

A Cummins Stage V/Tier IV or Tier III diesels power a six speed transmission with two axle four link suspension. Access to the carrier deck is possible from six points around the crane. Link-Belt's V-CALC - Variable Confined Area Lifting Capacities - system features 81 different outrigger configurations. Once the outriggers are set, the crane's Pulse 2.0 system indicates the crane's available capacity for that configuration.

Multitel Pagliero

Multitel will show several new truck mounted platforms - the 25 metre MZ 250, 27 metre MTE270E and 20 metre MTE 204 Lithium - as well as the new 21 metre SMX210 spider lift.



The 25 metre MZ 250 has a similar working height to the current MX 250 but is simpler and lighter

The SMX 210 has 9.5 metres of outreach at an up and over height of 10.2 metres. It has a working footprint of 3.5 by 3.5 metres. Transport dimensions are 1.97 metres high, 4.53 metres long, 1.08 metres high with a total weight

of 3,500Kg. Features include non marking tracks and automatic outrigger set up as standard. A lithium battery powered version will be available later in the year.

The 25 metre MZ 250 has a similar working height to the current MX 250 but is simpler and lighter employing a two section lower boom, a two section upper boom and a fixed length articulating jib. A higher boom pivot point allows the longer boom sections to stow over the top of the 3.5 tonne, three metre wheelbase Iveco Daily's cab, so the overall height is likely to be closer to three metres.



Link-Belt will launch of its all-new 110 tonne two axle Rough Terrain crane.



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The telescopic MTE 270 EX has a 250kg platform capacity. The rear outriggers of the platform remain permanently within the vehicle width, while the front outriggers can be set up in-line or extended on one or both sides. Even with the outriggers in-line the platform offers 16 metres of outreach over the rear and nine metres to the side. Extending the rear outriggers increases this to 13 metres. The MTE 270 EX is available mounted on a Mercedes Sprinter or on an Iveco Daily chassis.

The new 20.4 metre working height/14.3 metre outreach MT204 Lithium has an electric powered superstructure with the batteries recharged as the unit travels between jobs. The battery pack is said to provide a full days battery life on a single charge and can be charged from empty to full in less than eight hours.

PM, Oil & Steel and Valla

PM will introduce new loader cranes from eight to 12 tonne/metres in its Light crane range as well as

expanding its Heavy range with the debut of the PM 50.5 crane. It will also launch two new radio control systems, G2B-Frame and BMS-HL Colour. A third model, the G2B-Full HD with 4.3" colour display will be available soon.

Oil & Steel is celebrating its 60th anniversary and will show new platforms on Isuzu and Iveco trucks, as well as a Ford pickup chassis. Valla will have the new remote controlled nine tonne V70 pick & carry crane on display. All three brands use industry 4.0, predictive diagnostics.

Omme Lift

Omme Lift will unveil a new compact articulated spider lift, the 25 metre 25.00 RXJ, with diesel/battery hybrid power pack. Maximum outreach is 12.5 metres at a seven metre up and over height. Transport length is less than seven metres and this can be further reduced to 6.16 metres with the basket removed. Overall stowed width is 890mm and its high lift outriggers allow the machine to set

Omme Lift's compact 25.00 RXJ






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Subversive Performance(Compared with the same model in the industry)

The maximum working height heights have been increased by more than 2m to 30m on the telescopic Boom Lifts is 30m and 28m the Articulating Boom Lifts. Both models can be loaded into a standard container.

Maximum SWL increased by more than 30% to 450kg on telescopic booms and 320Kg on articulating Boom Lifts.

Maximum Horizontal Reach is increased by more than 1m.

Maximum gradeability is 50%, an increase of more than 20%.

The weight of the whole machine will also be 1 ton lighter.

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With a family-style modular design, 95% of the parts and more than 80% of the structural components are common across the range.

More convenient maintenance and lower cost of components storage.

Simple to maintain with integrated component down design.

With dedicated axles, the failure rate is lower.

Telescopic Boom Lifts

BT24RT(24m) **BT26RT**(26m)

BT28RT(28m) **BT30RT**(30m)

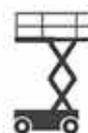
Articulating Boom Lifts

BA24RT(24m) **BA28RT**(28m)



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Ormig has a new range of electric cranes from 30 to 60 tonnes

up on slopes of up to 40 percent. Other models on show will include the 12 metre Mini 12 EJ trailer lift, 17 metre 1700 EX articulated trailer lift, and 42 metre telescopic 4200 RJ spider lift.

Ormig

Celebrating its 70th anniversary this year, Ormig has a new range of electric cranes with capacities of 30, 40 and 60 tonnes. Details are sparse but the main features are likely to include more compact dimensions, lighter operating weights, reduced turning radius and zero tailswing. Options include various hydraulic and mechanical jibs, forks with side shift, remote controls and the latest generation self-check of all crane functions.

Ruthmann - Bluelift

With the tag line 'Orange is the new green' Ruthmann will show Bluelift spider lifts with lithium ion battery power along with two hybrid truck mounted lifts, the 18 metre Ecoline 180 Hybrid and 27 metre TB270 Hybrid.

The company will also launch the all battery powered 25 metre Ampero TBR 250 E, mounted on a Mercedes Sprinter electric chassis, converted to electric drive by Orten Electric-Trucks and its partner EFA-S. The

The 25 metre Ampero TBR 250 E



platform uses the chassis battery pack, which Ruthmann says is sufficient for a complete working day, including up to 100 km of driving and four hours continuous platform operation. The charging time at a 380 volt charging station is four hours, longer on conventional 230 volt sockets.

Ruthmann will also show two truck mounts equipped with the new DRS - Dynamic Range System - which calculates the available working range depending on outrigger set up. The 75 metre T 750 HF will be seen for the first time as well as the new 90 metre T 900 HF DRS. DRS will be retrofittable to all Ruthmann Highflex (HF) platforms.

Socage

The main attraction on the Socage stand will be its new 37 metre 37DJ truck mount designed for 18 tonnes or larger chassis, which has an outreach of 23 metres. It will also show a range of insulated boom platforms from Socage Brazil. The articulated 13.5ATi has a 13 metre working height and is insulated up to 69KV (type B) or 49KV (type C).

New E series platforms will also be on show, including the ForSte18T with 11 metres of outreach with inboard jacking, or 12.5 metres with outriggers fully extended. Other 3.5 tonne truck mounts will be on show up to the 28 metre ForSte 28D articulated model. Finally, the company will unveil the new 12 metre 12VT Tronqué van mounted platform on a cutaway chassis.



The 13m 13.5ATi is insulated up to 69KV (type B) or 49KV (type C)

Tadano

Tadano will unveil two new All Terrain cranes a four axle model and a five axle unit, both with Euromot 5 engines and newly developed main booms. Both continue with Tadano's two engine concept. The company is keeping the maximum capacity of the new cranes a secret until the show. Also on display will be the new 60 tonne three axle ATF 60G-3 All Terrain, which is proving to be a popular model thanks to its variable axle weight configurations. Tadano is also launching an updated version of its 40 tonne HK 40 truck mounted crane mounted on a new MAN chassis including HydroDrive and intelligent rear axle steering. The HK 40 has axle loads less than 10 tonnes even, when carrying its full 4.5 tonne counterweight.

Other cranes on the stand will include the 80 tonne GTC-800 telescopic crawler, the 110 tonne GR-1200XL two axle Rough Terrain crane, 20 tonne GR-200EX mini city type Rough Terrain crane and 75 tonne GT-750EL truck crane.



The 75 tonne GT-750EL truck crane

Bonfiglioli

Bonfiglioli will unveil its new ECGenius - a high-power, efficient and cost-effective continuously variable transmission for telehandlers. The patented Mechanical Variator at the core of the product is the result of over 15 years of development at CVTCORP,

The Bonfiglioli ECGenius.



Bonfiglioli's Canadian partner. The company says the new transmission enables manufacturers to reduce engine size, while improving overall vehicle performance in the 20 to 30 percent range.

Comer

Italian component and hydraulics manufacturer Comer will unveil an all-new axle based drive system for self-propelled boom lifts. The launch system will be hydraulic drive with a single large inboard mounted motor which allows easy conversion to electric drive in the future. The company will demonstrate the new system with a virtual display.

Moba

Control and electronics company Moba will show a number of innovative new products, including an all-new joystick controller that senses excessive pressure or inadvertent activation and can be set to reverse the function that created the pressure, effectively providing a built-in secondary guarding system. The company will also unveil a new integrated triple action tilt sensor.



Moba's new joystick controller

Apexway

Apex tyres will show a new range of tyres that use less carbon and more silicone, in order to make them easier to recycle. The company is also offering non marking versions of all of its tyres and says that it is now offering custom tyre sizes and designs in relatively low production runs.



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