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# BAUMA MAIN PREVIEW

With Bauma rapidly approaching, this is our second preview covering news of what to expect in terms of new products to be launched at the show. Many manufacturers are keeping details close their chest believing that surprise unveilings on their stands is best. We will of course have a full Bauma review in the November issue of *Cranes & Access*.

## COMANSA

Spanish tower crane company Comansa will join Liebherr in launching its first hydraulic luffing jib tower crane, the LCH300, at the show.

The LCH300 features a single lift cylinder and dynamic counter jib with a maximum capacity of 16 tonnes on two falls at a radius of up to 20 metres, or eight tonnes on the single fall version which can be handled at a radius of up to 40 metres on the full 60 metre jib. The jib can be assembled in five metre sections from 25 to

60 metres to offer a jib tip capacity of up to 3.4 tonnes. The crane has a minimum working radius of four metres and a minimum out of service radius of nine metres.

The LCH300 can ideally be installed on a 2.5x2.5 metre section tower on an embedded concrete foundation or a choice of a six or eight metre square counterweighted bases. Two hoist options are available - a standard 50kW or the optional 65kW - and with Comansa's Effi-Plus technology makes it possible to increase the lift speed without affecting power consumption for faster loading cycles and improved productivity. The crane can be equipped with either of Comansa's large or extra large Cube Cab, both of which feature Split type air conditioning. The new design optimises transport and installation and can ship on eight trucks or containers.

## LEGUAN

Leguan - based in Finland and part of the Avant Techno group - will launch its largest tracked spider lift to date. While no specifics have been released, the lift can be transported on a specially made 3.5 tonne Leguan trailer. It will feature faster hydraulics, a higher working height and outreach than previous models and is aimed specifically at the arborist/tree care sector with protected hydraulic hoses and components and a steel reinforced chassis. Leguan says: "It will be the most user-friendly spider lift in its class thanks to its intuitive joystick control and modern features such as back to home and back to work functions."



Magni  
TH 4.5.15

## MAGNI TELEHANDLERS

With double the stand size of the last show, Magni has plenty of space which it plans to fill with numerous new machines. However, it is only divulging information on two fixed frame TH telehandlers - the TH 4.5.15 and the 4.5.19 - with maximum lift capacities of 4.5 tonnes and lift heights of 15 and 19 metres respectively. Aimed at construction and light industry, each model will have the option of a 55 or 75kW Deutz engine with the larger engine versions equipped with standard heating and air conditioning climate control system. Features include a large front windscreen, fully pressurised cab with filtration system, ROPS/FOPS cab, seven inch touch screen controlling all machine functions and 4x4x4 drive/steer.

A wide range of attachments are automatically recognised when connected/coupled, each displaying the corresponding load chart and load limiting system. The LMI system allows the operator to constantly monitor the movements of the machine to avoid overload situations. Both models feature front pivot type stabilisers to provide a more rigid base for better performance and greater stability when lifting.

Comansa LCH300



**TIME MANUFACTURING**

Recent acquisitions mean that the Time Manufacturing group now includes Versalift, Ruthmann, Bluelift, France Elevateur and Movex with each company planning to display their latest models over two stands.

France Elevateur - which is sharing a stand with Movex - will present the first model of an all-new product range although no details have been given so far. It will also show an updated Hybrid version of its Topy truck mount, while its training division - FE Training - will demonstrate its latest work at height training courses. Movex will have its new ATL 15 pick-up mounted platform as well as its popular 16.4 metre 3.5 tonne truck mounted TLR 16.



Ruthmann will show the new Hybrid version of the 30 metre working height, 23 metre outreach T 300 XS with an overall vehicle length of just 7.59 metres. Also on display will be the TBR 260, one of five models in the range with working heights of up to 30 metres and up to 18.1 metres outreach.



The largest platform on the stand will be the 70 metre Ruthmann T 700 HF which offers up to 41 metres outreach and does so with a 'compact' chassis of less than 12 metres in length.



The Bluelift spider lift range will be represented by its latest model, the 31 metre ST 31 which offers up to 18 metres of outreach and a maximum platform capacity of 400kg. A Hybrid version is also available, similar to the 18 metre SA 18 Hybrid which will also be on display. And last but not least, Versalift will exhibit several new platforms including the new 24 metre third generation VTX-240 G3 twin boomed truck mounted lift which has up to 12.5 metres of outreach at an up and over height of 11.5 metres. Maximum platform capacity is 220kg.



**HOLLAND LIFT**

Holland Lift will unveil an all-new 72ft heavy duty three model scissor lift range, including two full width RT models - the HL-240 E25RT and HL-240 D25RT - one electric and one diesel powered, along with a narrow aisle electric model, the HL-240 E13. All three offer four wheel drive although the narrow model has two wheel drive with 4x4 and an oscillating axle available as options, both of which are standard on the wider Rough Terrain units. Working height on all three is 23.9 metres, although the narrow model can extend a further 200mm when working indoors. Platform capacity is 750kg on the wide models and 600kg on the narrow and all three can drive at full height. A 2.6 metre roll out extension provides an extended platform of seven metres. On the narrow model the capacity on the extension is the same as on the main deck. The overall weights range from 12.7 tonnes on the diesel RT up to 13.1 tonnes on the narrow electric.

**ALBA-MACREL**

Spanish construction hoist manufacturer Alba-Macrel will unveil its highest capacity hoist in the PMH range. The hoist can carry passengers and materials up to 3,200kg at a speed of 80 m/min. Features include remote connection for



management and diagnosis, a lateral door option and being able to configure the hoist. A new square mast - the M650 - has been designed which has the capacity for two hoists, doubling the load capacity and allowing operators to work on different floors.

**PALFINGER**

Palfinger will unveil the fruits of its cooperation with ZF and Mercedes to develop a practical all-electric truck and articulated crane combination, with the option of a hybrid version using a generator. It is also developing its own battery electric cranes for mounting on regular diesel powered chassis and investing heavily in new digital solutions to simplify the operation of its equipment to provide a more user-friendly and safer machine. The result is its new Smart Control, an intuitive crane tip control system for loader cranes and timber/recycling cranes which it says provides greater precision, simplicity, intuitiveness and safely making it easier for less experienced operators to work as fast and as smoothly as more skilled operators.

**PAUS**

Further to last month's entry the company has revealed that it will also show a new 24 metre Easy Ladder hoist with 250kg capacity and 360 degrees slew. It will also focus on its articulated wheel loaders, including a new telescopic model, the four metre TSL 9088, which is also available with a man basket with a six metre working height.

**PVE**

Dutch electric crawler crane company PVE will show its new 80 tonne EC 80 all-electric lattice boom crawler crane with up to 58 metres of main boom and a nine to 18 metre fixed offset jib. Maximum system length is 67 metres - 49 metres of boom plus 18 metre jib. Although new, the crane retains the traditional hydraulic drive with an electric motor simply replacing the diesel engine. The new machines will also be chargeable with the battery pack in-situ rather than needing to be swapped over.

**BÖCKER**

Böcker will show its AK 48e - first fully electric steel/aluminium truck crane with 230 volt charging and mounted on a 27 tonne Mercedes eActros chassis.

Other electric machines on show will be the AK 37e hybrid truck crane, the AHK 36e trailer crane and the Junior 24e inclined lift - all with 230 volt charging.

As a hybrid, the 230 V truck crane AK 37e can operate either in plug-in mode or use the truck's



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at bauma in Munich

# FULLY ELECTRIC



## The new AK 48e First fully electric truck crane in steel-aluminium design

The AK 48e starts a new era and combines powerful crane technology with completely emission-free and low noise electric drives. Built on a Mercedes eActros, the 27 t carrier travels to site battery-powered and also works

completely electrical on site - in crane and platform mode.  
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conventional diesel powered PTO power supply. The company will also have its AK52 truck crane with large platform that is certified for up to six persons, which the company plans to use to give interested visitors an aerial view of the show.

Making its worldwide debut will be the Super-Lift LX-PM rack and pinion hoist which can transport up to 25 people to heights of up to 200 metres. The unit features an enclosed cabin and compact dimensions and is able to fit into the elevator shaft during the construction phase.

**SANY**

Sany will use Bauma for the worldwide launch of its 80 tonne telescopic crawler crane - the SCE800TB-EV. The crane's diesel engine is simply replaced by a 206kW electric motor with 282kWh LFP (Lithium iron phosphate) battery pack capable of powering the crane for up to eight hours continuous work without recharging or replacing the battery. Both AC and DC charging is available, the AC charger options include 16/32/63 or 125 Amp charging modes. The DC fast charge system takes the battery pack from empty to fully charged within two hours.

Sany will also use the show to launch its new European-built telehandlers, produced in a facility where it plans to build both European and North American spec'd machines - expect to see European models with lift heights of 14 and 18 metres.

**TEUPEN**

Spider lift manufacturer Teupen will launch two new machines - the 24 metre Leo24GT and the 27 metre Leo27GT. Preliminary information suggests

both machines will have a outreach of 12.2 metres with a maximum 250kg platform capacity. Transport width will be 890mm. The Leo24GT will weigh around 3,000kg, allowing it to be transported on a 3.5 tonne two axle trailer.

Both machines feature a platform load sensor, radio remote control with a display in the platform, hydraulic height and width adjustable tracks. As well as the standard outrigger position settings - wide and narrow - they will also feature a 'Church Position' setting with both front stabilisers in the wide position and the rear outriggers set in the narrow position.

Details have not yet been finalised but possible options include lithium battery power, a 300kg hoist, a second display on the chassis, a smaller 900x800mm platform, Come Home function and water and air connections.

**DINOLIFT**

Finnish aerial lift manufacturer Dinolift is to launch all-electric battery powered versions of its 'semi self-propelled' low weight RXT boom lifts. The new RXTE models are derivatives of the two RXT 4x4 low weight boom lifts and will simply carry the E suffix to indicate battery electric power - the 86ft 280RXTE and 66ft 220 RXTE. The diesel RXTs have been available with a plug in supplementary power pack for indoor work, but the new models are all-electric and autonomous.

The RXTE's will be available with a choice of either an AGM or Lithium-ion battery pack. According to Dinolift one of the key design principles behind these new models was at least similar performance compared to the diesel versions. As a result, the E models maintain the

same drive or boom operation speeds, same rough terrain capability and the same multi-function operation. Instead of a diesel engine driving the hydraulic pump, an equally powerful electric motor with continuous rating of 15kW and a 20kW peak power rating is employed. Most of the rest of the machine remains compatible with the diesel models. Levelling capability has been improved on all RXTs, with up to 13.5 degrees now possible.



Dino 280 RXTE





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The 280RXTE has a dual riser, four section boom and jib and offers a maximum outreach of 16 metres with 120kg or 14 metres with the maximum platform capacity of 230kg. Total weight is 5,000kg with Lithium battery pack and is slightly heavier with AGM batteries. A small gas engine is available to top up the battery pack or recharge remotely.

The 220RXTE has the same lift geometry as the 280RXTE, but with a two section telescopic boom instead of four. Maximum outreach is 12 metres with the 230kg unrestricted platform capacity. It will weigh around 4,850kg or so depending on battery choice.

**ZOOMLION**

The star of Zoomlion's show will be the new 186ft ZT58J self-propelled telescopic boom lift although it will also launch two new Lithium battery powered articulated booms.



ZA20JERT-Li



The ZT58J is said to be easier to use and more practical than the prototype 217ft ZT68J that the company unveiled at Bauma China last year, sales of which have so far been limited to the domestic market. The ZT58J features a five section pentagonal main boom topped by a two section six metre telescopic jib with 125 degrees of articulation, offering a 58.8 metre working height and an outreach up to 25.5 metres with an unrestricted platform capacity of 300kg. The maximum platform capacity is 454kg available at an outreach of up to 22.5 metres. Overall transport length is 14.4 metres - similar to the JLG1850SJ but longer than the Genie SX180. Overall weight is 29,600kg which is substantially higher than both the Genie and JLG, and power comes from a Cummins diesel.

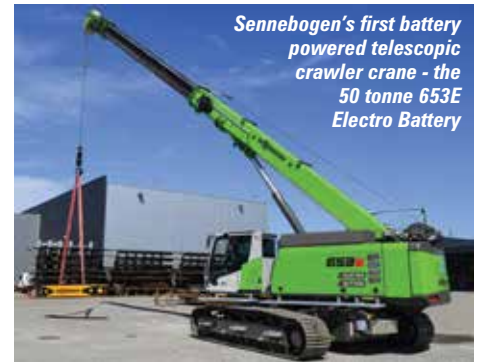
The two articulated boom lifts are simply lithium battery versions of existing machines - the 52ft ZA16JERT-Li which was launched with a traditional battery pack in January, and the 64ft ZA20JERT-Li a Rough Terrain version of the ZA20JE unveiled at Vertikal days.

**SENNEBOGEN**

German crane manufacturer Sennebogen will unveil its first battery powered telescopic crawler crane - the 50 tonne 653E Electro Battery. The new crane has been developed in collaboration with its Dutch dealer Van den Heuvel and can apparently work completely emission free, while retaining the flexibility of a diesel, thanks to a 'Dual Power Management System'.

The 653E uses a similar set up to the battery powered 817 Electro Battery material handler launched earlier this year, driving the main pumps with a large electric motor rather than the diesel. Power comes from a 210kWh battery pack which allows the crane to be operated when plugged into an AC outlet with the mains power driving the crane functions while any excess power is used to top up the battery pack. The machine is naturally also quieter while eliminating the maintenance requirements of a diesel engine.

Other machines on the stand include the 100 tonne 6103E and 613E telescopic crawlers, the



Sennebogen's first battery powered telescopic crawler crane - the 50 tonne 653E Electro Battery

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**DINGLI**

Dingli is to launch three new telescopic boom lifts - the 112ft BT36RT, the 129ft BT41RT and 139ft BT44RT - taking it towards the top end of the self-propelled boom lift market. Until now its largest has been the 93ft BT30 models.

Each model is available in three power variants - Lithium all Electric, Hybrid with a range extender diesel generator and straight Deutz diesel - for a total of nine new models. Maximum outreach on the BT44 is 27.2 metres with 300kg in the platform, while the 454kg maximum capacity can go to 24.9 metres.

All three booms have been designed at its German R&D centre that opened in 2020 in co-operation with Teupen after it acquired a 24 percent stake in the German company. They follow Dingli's modular design concept first conceived by the Magni engineers at the Dingli Italian design centre and share concepts with the electric models launched in 2020.

Features include a new swingout axle extension system that can be carried out with the machine stationary without causing excessive tyre scrub taking the overall width from 2.45 metres to a maximum working width of 4.15 metres. Four wheel drive and steer is standard, and all units have been designed to be transported in standard containers, albeit with the standard wheels replaced with loading wheels. Total weight of the BT44RT is 22 tonnes depending on power source. Overall length with regular tyres installed is 11.93 metres with a stowed width of 2.45 metres and an overall height of 2.82 metres.

The BT44RT has a five section telescopic boom and heavy duty articulating 4.2 metre fixed length jib with 240 degrees of articulation that looks like it has been conceived to take a telescopic inner section at a later date. Maximum platform capacity is 454kg.

**MANITOWOC/GROVE/POTAIN**

The Manitowoc crane group will have 12 cranes on display - seven Grove and five Potain - and plans to have several launches at the show, one of which is the new 400 tonne Grove GMK6400-1 All Terrain crane which was launched 'virtually' at Conexpo 2020. The GMK6400-1 retains the five section 60 metre main boom of its predecessor and is now equipped with a new Stage V/Tier 4 Final diesel driving an upgraded hydraulic system. Other features include the company's Megatrak suspension system, MegaDrive hydrostatic drive, the MAXbase variable outrigger set up system and CCS operating controls.



Grove GMK6400-1

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

The company claims that the crane can handle many jobs that usually require a seven or eight axle crane but with a smaller overall footprint. It can handle 64 tonnes on the fully extended main boom at a radius of 11 metres when rigged with the MegaWingLift system and 38 tonnes without.

Two more Grove AT cranes will be making their Bauma debuts - the 150 tonne GMK5150XL and 120 tonne GMK5120L - although both were seen at the end of last year. The five axle GMK5150XL has a 69 metre main boom and the GMK5120L has a 66 metre main boom plus a variety of counterweight configurations for greater flexibility. Four other Grove cranes - two ATs and two RTs - will be announced at the show.



Grove GMK5150XL

Potain is planning to launch two new tower cranes - a topless and a luffing jib - but details are being kept under wraps until the show opens. Alongside them will be the Potain MDT 489, available in 20 tonne and 25 tonne versions, with each offering an 80 metre jib. Two self-erectors will also be on the stand - the six tonne Igo T 99 and the 2.2 tonne Potain Hup M 28-22, with 28 metres of jib and up to 31 metres of working height.



Potain Igo T 99



**JEKKO**

Jekko is to launch several new models from its SPX minicrane spider, MPK minipicker pick & carry and JF articulated crawler crane ranges. The key new launch is possibly the 2.8 tonne capacity SPX328 spider crane. Weighing 2,300kg it has an overall width of just 730mm, is 2.95 long and has a

stowed height of 1.61 metres. It has a maximum lift height of 10.5 metres and a maximum radius of 8.5 metres. Power comes from a lithium battery pack, while features include radio remote controls with 10 inch interactive touchscreen display, a new interface said to be new to the spider crane sector. Three different versions of the electric SPX328 will be on display - one with a jib, one with just a main boom and winch, and the third with the first fully electric jib, totally independent from the cranes hydraulic system and operated with a dedicated radio control. A full range of options include outrigger mats, hook, single-line hook block, four-line hook block and jib - all can be easily transported stowed on the machine

The new JF235 articulated crawler crane is the smallest bi-energy powered model in the Jekko range. It has an overall length of 4.74 metres, is 1.6 metres wide and 2.6 metres high and features a main boom and jib - each with four extensions - and can lift a maximum of 6,150kg while boasting a maximum lift height of 15 metres. The new JF235 has radio remote control and a seven inch interactive touchscreen making it very similar to the SPX328 to handle and operate.

When it comes to pick & carry cranes - following the sales success of the MPK06 minipicker and the recently introduced 990kg MPK10 - Jekko will show its new MPK20R aimed at the glass handling sector. Weighing 1,955kg it has a two tonne maximum capacity, a 6.5 metre maximum lift height and measures 2.39 metres long, 1.51 metres high and 880mm wide and is powered by two lead acid batteries. The overall design is similar to the MPK06 and MPK10 with an upper structure slew of 12 degrees and the option to use the 600kg JVM06 and 990kg JVM10 glass manipulators. The main boom features a manual extension as well as two hydraulic extensions capable of lifting a maximum of 850kg to a height of almost seven metres.

Attachments on display will include the 450kg JVL450 and 600kg JLV600 Vacuum Lifters, the 800kg JVM800 Universal Manipulator and the 500kg JIB500GR Beam Manipulator which can be used on the SPX532 and SPX650.



Jekko JF235



Jekko SPX328



**ENERPAC**

Enerpac will have live and virtual demonstrations of its latest portable and compact gantry lifting systems as well as its synchronous lift and hold solutions.

One of the new products will be the SBL600 Super Boom Lift hydraulic gantry - a three stage telescopic hydraulic cylinder with rectangular boom for increased capacity and first stage lifting capacity of 674 tonne and 416 tonne at the third stage. The SBL600 lifting height of 10.6 metres is ideal for placing gas turbine generators and power transformers in power plants, for example. It is a good fit between the SBL500 and SBL900 gantries with lifting heights of 8.6 and 11.3 metres respectively.

Features include ease of transportation with the folding boom allowing shipment on standard flatbed trucks without special permits and routing. Weighing less than 9,100kg, the SBL600 allows for transport of two legs on a single trailer.

Another new product will be the EMV-Series E-mover battery powered self-propelled load skate which features a central load bearing plate and is designed to be used in conjunction with the company's standard MLS-Series wheeled skates. The E-mover features a hydraulic lift cylinder in place of the load bearing plate and has a 50 tonne capacity, split between the E-mover and wheeled load skate. The E-Mover is operated via a wireless remote controller. Enerpac says that battery life for the E-mover is expected to be between three to five hours depending on usage.



*Enerpac SBL600*

**ALLISON TRANSMISSION**

Allison will introduce its new electric axles, Allison eGen Power for construction applications - a drop-in solution compatible with many existing truck chassis, helping manufacturers accelerate their development programs. It features fully integrated electric motors, a two speed gearbox, an integrated oil cooler and pump for optimal



efficiency and performance and is compatible with battery electric vehicles (BEV) and fuel cell electric vehicles (FCEV) as well as hybrid applications.

**CM LABS**

CM Labs will showcase its new simulator training solutions for machines including telehandlers all running on the immersive Vortex Advantage and the entry-level motion-enabled Vortex Edge Max. Both simulators will be loaded with CM Labs' full range of lifting equipment programmes including the recent release of their boom truck simulation training pack. Definitely worth a visit to test your skills.

**MANITOU**

Bauma will provide the first opportunity to find out what Manitou has planned for the ATN product range, following its recent acquisition of the company's business and product range. We know the focus will be on the mast boom range, but how it will combine that with the recently updated Manitou range remains to be seen. Manitou will also unveil two new all-electric articulated boom lifts that use the same layout and technology as 59ft 200ATJE that it unveiled at Bauma 2019. They are the 46ft 160ATJE and 53ft 180ATJE all with 250kg unrestricted platform capacity including the 200ATJE which was previously 230kg. A new updated version of the 33ft narrow aisle 120 AETJ boom lift will also be on display with improved componentry and a 230kg platform capacity compared to the previous 200kg.

The telehandler product line up will be represented by a host of new models that the company announced last year, including its new electric 360 degree models the 22 metre/6,000kg MRT 2260E and 26 metre/6,000kg MRT 2660E. They can be equipped with a choice of either a twin battery pack or a single battery pack plus a range extender diesel generator pack. A lithium ion version is expected for 2023.

Most interest perhaps will be in the all-new ultra-compact ULM mini telehandlers designed to be transported on a standard 3.5 tonne trailer. Unusually it features a polycarbonate roof which apparently avoids the need for an overhead grille on the skylight. Two new 12 and 18 metre MT



*Manitou ULM cab*

fixed frame telehandlers are also expected as well as a lithium powered six metre MT 625E compact. Also ask about its new oil revival system which it says can be used like a kidney dialysis machine. The size of a pressure washer, it will clean the hydraulic oil removing even the smallest dirt and particles avoiding the need to change even after years of use.

**FARESIN**

The company is holding everything back for the show itself, but we do know that it will launch larger all-electric telehandlers following the success of its six metre/2,600kg 6.26 Full Electric compact. It is possible that it might include a 17 metre Full Electric - although perhaps that is a bit of a stretch.

**RAIMONDI CRANES**

Raimondi Cranes will show two new flattop tower cranes and a newly designed cab. Very few details on the cranes have been released however there will be two series with lifting capacities from six to 24 tonnes.

*The new Raimondi flat top*



All machines will be equipped with the new crane cab which is available in two models and include significant structural improvements which increase visibility by 30 percent to the front and sides. Other features include a new air ducting system which reduces window fogging, an ergonomic seat and several internal accessories to boost crane operator comfort.

The company says that it will also present its new corporate vision as well as details of its new 29,000 sq m headquarters.



*Manitou MRT 2260*



*The Manitou ULM on a 3.5t trailer*

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