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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 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.

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 allelectric 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



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

Bricks

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. For a sustainable future.



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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 an 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 multifunction 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.





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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.





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





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200 tonne 5500 G lattice crawler and the 100 tonne duty cycle crane 6100E with diaphragm wall grab.

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 selfpropelled boom ift 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.



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.



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.





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.



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





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.



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.





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AGS	A2 A2.119	Digimaxx	C1	C1.503	Italmek	C5	C5.409	Poclain Hydraulics
Airo Tigieffe	FS FS.1102/1	Digital Control		B5.524	Jaso	FS	FS.1003/8	Point of Rental Software
Airtec	A1 A1.521	Dillinger Hüttenwerke		A6.305	Jebens		A6.305	Potain
Akon Hidrolik	A3 A3.450	Dinamic Oil		A3.315	Jekko	FS	FS.1103/6	Prinoth
Alba Macrel	FS FS.1104/9	Dingli Dinolift		FS.904/5 FS.1306/4	JMG Cranes JMS	FS B4	FS.1103/7 B4.342	Probst PVE Crane
Albert Gerüst Allison Transmission	B3 B3.329 A3 A3.414	Doll		FN.830/1	Jung Hebe- und Transporttechnik	C4		Raimondi Cranes
Almac	FS FS.1102/1	Donaldson		A4.348	Kessler	A3	A3.249	Ralf Teichmann GmbH
Altec	B5 B5.403	Doosan Infracore		FM.711/1	KHL	B5	B5.401	Ravioli
Altrad Plettac	B3 B3.403	Dorn-Tec	FM	FM.807/2	Kinshofer	FM	FM.711/4	Raxtar
Altrex	B3 B3.401	Eastman Impex		B3.225	Klarx		FM.709/2	Rayco-Wylie
Alufase	FM FM.708/1	Easy Lift		FS.1003/3	Klickrent		A2.320	Reinholz Software & Technology
Amber Valley	B5 B5.442	Eberspächer Ebinger		A4.351 C5.417	Klubb Knott		FS.1106/7 A4.438	Rexroth Ritchie Bros.
AMCS Technologies AMS Kranbau	FS FS.1106/11 FS FS.902/3	Ebinger Eblo Seating		A6.201	Kobelco		FN.1016	Ropeblock
ANMOPYC	A1 A1.220	Electroelsa		FS.1104/3	Ko-Mats		FM.814/4	Roquet Hydraulics
Apollo Tyres	A6 A6.436	ELS Lift		FS.1101/8	Kögel Trailer		FN.720/9	Rothlehner Arbeitsbühnen
ArcelorMittal Europe	C5 C5.338	EMS		C4.114	Kohler		A4.225	Rototilt
Arcomet See Uperio	FS FS.902/1	Enerpac		FS.1105/1	Kramer		C2.115/2	Rotzler
ASC Hidrolik Endüstrisi	A5 A5.227	ES-GE Nutzfahrzeuge		FN.821/2	Kran & Bühne		FM.708/6	RUD
Ascorel	FS FS.902A/1B	Etramo		FN.1020/4A	Kranlyft		FS.1003/1	Ruthmann
Ashtree Vision & Safety	B5 B5.448	Eurogru Euromach		FS.1002/10 FN.722/10	Krøll Cranes KSD Kransysteme		FS.1002/8 FS.1103/2	RUX Saeclimber
Atlas ATN - See Manitou	C6 C6.212 FS FS.908/1	Euromat		A3.145	Kubota		FN.103/2 FN.1019/1	Saez
Ausa	FM FM.709/7	Europarts		A6.450	Kübler		A2.104	Sahalift
Autec	FM FM.807/9	Europelift		FS.1003/3	Kuli Hebezeuge - Helmut Kempkes		A1.337	Saltec Torgar - Fraco
Avant Tecno	FM FM.709/3	Euroswitch		A2.542	Layher		B3.425	Sany
Bauer	FN FN.520	FAE		B5.348	Lebus International		C4.120	Sateco
Baukrane Budownictwo	B3 B3.307	Falcon Lift		FS.1003/3	Lectura		EWE.22	Saudem
Bavarialift	FS FS.1006/5	Faresin		FS.1107/9	Leguan Lifts		FN.709/3	Scanclimber
BBL Cranes	FS FS.902/3	Fassi		FN.926/2	LGMG		FS.1105/9	Scandinavian Pile Driving
Be-Ge Seating Division	A6 A6.507	Faymonville F.B. Gru		FN.822/5	Liebherr Lift Managor		FM.809	Scanreco Scheuerle
Bigge Crane & Rigging BKL Baukran Logistik	C4 C4.527 FS FS.1203/1	F.B. Gru Ferrari International 2		FS.902/2 FN.1025/1	Lift-Manager Linde Hydraulics	FS A3	FS.1003/3 A3.149	Scheuene
BKL Baukran Logistik BKT Europe	A6 A6.215	Ferro Umformtechnik		A6.412	Lingong Heavy Machinery (LGMG)	FS	FS.1105/9	Sennebogen
Block Cam	C4 C4.332	FibreMax		C4.327	Link-Belt Cranes	FS	FS.903/3	Sensors & Software
Blomenröhr Fahrzeugbau	FN FN.721/1	Filtrec		A4.444	Lissmac		A1.249	Shenyang Baoguan
BMS Bau Maschinen-Service	FS FS.908/5	Flexco		B2.227	Locatelli	FS	FS.1101/9	Siemens
BNP Paribas Lease Group	C4 C4.315	Flexit Hydraulics	A4	A4.312	Lodax	FM	FM.807/1	Sinoboom
Bobcat	FN FN.817	FM LeasingPartner		FM.709/2A	Ma Anshan Jingwei Slewing Ring	C5	C5.216F	Skew Accessories
Böcker	FS FS.1203/2	FM Gru		FS.1002/2	Maber	FS	FS.1204/1	SKF
Bonfiglioli	A3 A3.337	Fraco		FS.1104/8	Maeda	FS	FS.1003/1	SMIE
Boom Makina	FS FS.906/9	France Elévateur		FS.1004/7	Magna Tyres		A6.425	SMOPYC
Boscaro	FM FM.708/7	Fuchs Lubricants G-tec Positioning		A5.137 A2.625/5	Magni Telescopic Handlers Mait	FS FN	FS.1108/3	Socage Soilmec
Bosch Bosch Bowroth	A3 A3.327	Galizia		FS.1104/7	Mammoet Merchandise	C5	FN.622/9 C5.201	Spierings
Bosch Rexroth BPI Hydraulik	A5 A5.326 A4 A4.312	Ganterud Lifting Solutions		C4.226	Manitou	FS	FS.908/1	SPT
BPS Software	A4 A4.312 A2 A2.248	Geda		FS.1004/1	Manitowoc Cranes	FS	FS.1201	SSAB
Brake Supply Company	C4 C4.628	Gefa Bank		FM.808/6	Mantall		FS.1308/1	StepUp Scaffolding
Brennero Gru	FS FS.1103/5	Gefas Fahrzeugbau		FS.1306/2	Marchetti	FS	FS.1004/12	Stros
Bridon	C2 C2.115/7	Gefran		A3.313/C	Matusch	C4		Strenx
Brigade Elektronics	A5 A5.417	Gehl		FS.908/1	Max Trailer		FN.822/5	SüdLeasing
Briggs & Stratton	A2 A2.349	Gemmo		A5.203	Maxilift - Next Hydraulics	B4		Sumitomo
Bronto Skylift	FS FS.1203/3	GGR - Unic		FS.1102/5	MCS Mobile Control Systems		A2.540	Sunward
Brosa	A2 A2.339	Giant - Tobrocco GKS-Perfekt	C6	C6.209 B4.250	MCS Rental Software Mecalac		A2.410	SVAB Hydraulik
Broshuis Brunnhuhan Krong	FN FN.723/10	Goldhofer		FN.823	Mercedes-Benz Trucks	FIVI B4	FM.714/1 B4.324	Tadano Talleres Velilla - Movex
Brunnhuber Krane	C4 C4.336 A3 A3.103	Goodyear Dunlop Tires		A6.224	Merlo		FS.1108/1	Techking Tires
Bucher Hydraulics C.O.B.O.	A5 A5.412	Grammer		A6.349	Methocad		FS.1106/3	Teichmann Krane
Camac	A1 A1.121	Groeneveld-Beka		B5.239	Meva	B3	B3.236	Tele Radio
CAN in Automation	A2 A2.337	Gross Funk		FM.708/2	Midi Cranes	FS	FS.902/6	Terex
Carraro Drive	A3 A3.325	Grove		FS.1302/1	Minor Hoists		A1.121	Tesab
Casagrande	FN FN.521/5	Gru Dalbe		FS.1001/2	MJ-Gerüst		B3.224	Teufelberger
Casar	C4 C4.115	Grúas Sáez		FS.1104/1	MKG		FN.929/5	Teupen
Caterpillar	B6 B6.106	Gruniverpal		C4.653	Moba		A2.237	TGT The Grab Specialist
Cattini Oleopneumatica Cela	A5 A5.403	GSR Guven Steel Wire Rope		FS.1003/3 A1.400	MobileTronics Moritsch Cranes		C2.225/7 FS.1103/8	Thyssenkrupp Rothe Erde
Chapel-Hydraulique	FS FS.1102/8 A4 A4.126	H.B.S.		A3.108	Morooka	B4		Tigieffe - Airo
CIFA	FS FS.905/2	Hansaflex		FM.808/1	Motorenfabrik Hatz		A4.449	Time Manufacturing - Versalift
CM Labs Simulations	C2 C2.226/1	Hardox	A6	A6.439	Movex - Talleres Velilla		FS 1004/7	Tobroco - Giant
CMC	FS FS.1302/2	Hatz		A4.449	MPG	FN	FN.831/2	Torgar - Fraco
Comet	FS FS.1004/10	Hawe		A3.348	MST	C4		Trackunit
Comansa	FS FS.1103/1	HBC-radiomatic		FM.708/5	Multitel Pagliero		FS.1102/10	Trelleborg
Combilift	FS FS.1001/6	HBE HBI Turos & Wheels		A5.100 A6.530	Mycrane Nagol Mistoonvice		C4.145	Trimble
Comer Industries	A3 A3.225	HBI Tyres & Wheels Hella		A6.530 A5.436	Nagel Mietservice NBB Controls + Components		FM.811/A A2.103	TTControl Tufftruk
Cometto Condecta	FN FN.822/5 C4 C4.721	Helmut Kempkes - Kuli Hebezeuge		A5.430 A1.337	Next Hydraulics		AZ.103 B4.331	TVH Parts
Conductix-Wampfler	C4 C4.331	Hematec Arbeitsbühnen		FS.1306/2	Nicolas Industries		FN.828	Unic Cranes
Conexpo	EOE EOE.21	Hetronic		FS.1204/2	Nooteboom		FN.721/10	Uperio
CEA	B5 B5.426M	Hidrokon	FN	FN.827/2	Norbert Wienold	FS	FS.1103/3	Uplifter - UPT
Continental	C5 C5.403	Hinowa		FS.1007/1	Nordic Platform		B3.120	Uplifting Vertical
Cormach	FN FN.722/10	Hirschmann - Wika		A2.226	Off-Highway Research		B5.401	VDBUM
Cormidi	C5 C5.149	Hitachi		FN.718	Olsbergs Hydraulics		A3.126	VDMA
Crane	FS FS.1102/2	HK Hydraulik-Kontor		FN.824/2	Omme Lift Omni Powertrain Technologies		FS.1102/1	Verope
Cranebee Crane Club	C4 C4.126 A2 A2.639	HKL HKS TiltRotator		B6.310 FN.815/1	Omni Powertrain Technologies Omsi Trasmissioni		A5.107 A3.514	Versalift Vertikal Verlag/Vertikal Press
Crane Club Cranes & Access	AZ AZ.639 FM FM.708/6	Holland Lift		FN.815/1 FS.1101/1A	Orlaco		A3.514 A2.201	Wacker Neuson
Cranimaxx	C4 C4.126	Honda		A4.149	Ormet	FS		Webasto
Crosby	C4 C4.332	Horyong		C6.318	Ormig		FS.1006/7	Wienold, Norbert
CrossControl	A2 A2.407	Hünnebeck		B3.248	OTR Wheel	A6	A6.430	Wilbert Tower Cranes
CTE	FS FS.1103/10	HTS Hydraulische Transportsysteme	C4	C4.653	Paccar Winch	A3	A3.413	Wika Mobile Control
Curtiss Wright	A2 A2.309	Hunan Sinoboom	FS	FS.1002/3	Palazzani		FS.907A/1	Wolffkran
Custers Hydraulica	B3 B3.110	Hydac		A3.449	Palfinger		FN.826	XCMG (Xuzhou Const. Mach. Grp.)
Daimler	B4 B4.236	Hydra		FN.523/1	Palfinger Platforms		FS.1304/1	Yanmar
Dalbe Gru	FS FS.1001/2	Hydraforce Hydraulics		A4.450	Panolin International Parker Hannifin		A5.424	Zandt Zeppelin
Danfoss DAT Instruments	A3 A3.125	Icaro IDAT		A1.525 B1.148	Parker Hannifin PAT - Wika		A4.215 A2.226	Zeppelin ZF
DAT Instruments Delta Cranes	C2 C2.251 FS FS1102/2	Igus		A6.248	PAT - VVIKa Paus		AZ.226 FM.713/9	ZFE
Delta-Q Technologies	A4 A4.115	Imer		FS.906/1	PB Lifttechnik		FS.1003/3	Zhejiang Dingli Machinery
Demag - See Tadano	FS FS.1305/1	Imet		A2.424	Perkins		A4.336	Zollern
Denka-Lift	FS FS.1003/3	IPAF	C4	C4.350	Pfeifer Seil und Hebetechnik	C4	C4.249	Zoomlion
Deutsche Leasing	FS FS.1013/3	Inter Control Hermann Köhler Elektrik	A2	A2.327	Pilosio	B3	B3.103	
-	_							

FS FS.1109/5 Interpump Hydraulics

A3 A3.339

Pirtek

A6.337 FS.1005/4 A3.109 A3.536 C4.717 FS.1201 B4.423 FS 1207

FS.1307 FS.903/7 FS.1102/2 C4.336 A2.130 FS.1003/4 B5.335

B5.335 A3.313/G A3.327 B5.402 FM.814/3 A3.539 FS.1003/3 FN.914/9 A3.301 FN.1022/7 FS.1006/4 B3.226 FM 708/1

FM.708/1 FS.1203/1 FS.1102/1

FS.1104/8 FN.620/9 B3.109

A2.119/1 FS.1102/6 FN.622/1

A2.141 FN.828 C3.329

C2.325 FS.1002/3 C3.125

E0E.14 FS.1304/2 FN.522/9 FS.1002/1 904A/1 A6.439 FN.824/4 FN.824/4

FS.1203/2 A6.439 FM.814/1

FM.814/1 FS.903/3 FN.618/10 A2.330 FS.1205 FS 1004/7 C5.205 C4.336 A2.319 FN.717 C2.427

C2.427 C4.149 FS.1204/6

FS.1204/6 C4.316 FN.723/2 A5.449 FS.1102/1 FS.1006/4 C6.209

FS.1104/8 A2.126 A6.103 A2.437

A3.550 FN.1020/4A A6.242 FS.1102/5 FS.902/1

FS FS.904A/1 C4 C4.301 EOE EOE.20

A3.313 FS.901/5 FS.1006/4

FM.708/6

FN.915 A4.339 FS.1103/3 FS.905/2 A2.226

A2.226 FS.902/7 FS.1105/2 A4.425 FN.825/2 FM.60B.7 A3.336

FN.1015/13 FS.904/5 A3.314

FS.905/2

FM FM.709/4 FS FS.1104/2 EOE EOE.14

A6 FS A3 A3 C4 FS B4 FS FS FS C4 A2 FS B5 A3 B5 FM

A3 FS FN A3 FN

FS B3

FM FS FS FS FN

B3 A2 FS FN

A2 FN C3 FM A2 C4 C2 FS C3 FM FM.712 A2.613 C4.751

FS FN

FS FS A6 FN FS A6 FM

FS FN

A2 FS FS C5 C4 A2 FN

C2 C4 FS C4 FN

A5 FS FS C6 FS A2 A6

A2 A3 FN

A6 FS FS FS C4

A3 FS FM FN A4 FS FS A2 FS FS A4 FN FM A3 FN

FS A3 FS

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