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# The greatest show on earth

C&A

bauma

**Bauma 2019 is again nearly upon us. The show continues to grow and grow while other international exhibitions give way to smaller, more specialised local events. For many manufacturers it is the culmination of three years work to ready products for a truly global launch. For visitors this is the one to go to if you only ever go to one show.**

Held once every three years in Munich, the exhibition feels like it comes around quicker and quicker. In 2016 it broke all previous records with more than 600,000 square metres of exhibition space attracting almost 3,500 exhibitors from 58 countries and nearly 600,000 visitors. This year the layout has been reorganised slightly with the addition of two large new halls - C5 and C6 - as well as optimising the outdoor space which has increased the space by a further 10,000 square metres.

Although the show is open for seven days - from April 8th to 14th - there are so many stands and exhibitors to see that it soon becomes apparent how important it is to plan your visit. The site is vast so that even planning your visit well can mean walking 10-20km per day!

In this issue and the March issue we have the first and main previews which highlight all the major product launches expected at the show. The dedicated Vertical Guide to Bauma then has a walk-through of each type of product - AT cranes, spider lifts, loader cranes etc - guiding you to the relevant stand in each category in the most efficient way possible, pointing out the major news and product items along the way.

One thing to remember - many senior company executives only attend the show for the first

few days so if you do need that important face to face meeting plan it for the early part of the week.

## Getting there

Flights to Munich airport are plentiful and it is well-served by domestic and international airlines. Rail connections from Frankfurt and Stuttgart airports are also good. From Munich airport you will find a shuttle bus to the showground - or Messe Gelände - or you can take the U-Bahn from the airport with two changes or take the U-Bahn and a bus with just one change. The showground is direct from the central station. Taking the taxi from the airport is quite expensive - allow about €75 - and depending on the time of day and traffic, it may be quicker on public transport. Be warned though - mornings until around 10 can be a challenge to squeeze on board the U-Bahn. And remember take the second showground station for the crane and access areas.

## Accommodation

Finding accommodation during Bauma is a challenge - finding anywhere cheap is like searching for the Holy Grail as prices can double or even treble that week it is simple case of supply and demand. If you really get stuck it is possible to find good hotels at a reasonable price 60 to 100km outside of Munich and then either drive or use the train to get to the show.



Hotels should be booked through an agency you know or direct with the hotel to avoid any scams etc. Or if you are buying a new crane or access equipment you might get help from the distributor or manufacturer.

## Getting in

Everyone has to pay to get in at Bauma, even exhibitors only get a few free staff passes. They can and do buy tickets for their guests, so it is worth checking with some of those you plan to visit.

It is also about 40 percent cheaper booking your tickets online - a day ticket for example is €24 online or €35 at the show.

Tickets	Online	At the show
Day ticket	€24	€35
3-day ticket	€49	€69
7-day ticket	€62	€85

A reduced day ticket for students, trainees or pensioners is €26 and can only be purchased at the show with the relevant documentation. Children up to 14 years old can get in free if accompanied by a parent.



# Bauma 2019 first review What to see...

**Liebherr**

Liebherr has by far the largest stand at the show and starts building its three storey stand several months before the shop opens. It has numerous new product launches planned, along with the 230 tonne, five axle LTM 1230-5.1 All Terrain with 75 metre boom and the 800 tonne LR 1800-1.0 crawler crane, both of which were shown as prototypes at the Liebherr Customer Days event last year. Two other new All Terrain cranes will also be unveiled - all we know at the moment is that one will be an eight axle crane 'designed for maximum performance' - possibly a big brother to the LTM 1450 launched at bauma 2016. The other new product

will be a five axle crane with 'great economy and flexibility in use'.

Liebherr Nenzing will show a new 300 tonne duty cycle crawler crane - the LR 1300 SX. For heavy loads the crane can be fitted with a derrick boom and additional counterweight. The radius of the new suspended counterweight can be adjusted hydraulically. Another feature is the 'Boom Up and Down Aid' which is said to automatically prevent an operator lowering a boom and jib combination in a configuration that could overturn the crane.

Liebherr will also launch its largest self-erecting crane to date, the 125 K - with a radius of 55 metres



LTM 1230-5.1

and maximum hook height of 65.5 metres - which it claims is the largest on the market. The basic hook height of 29.5 metres can be increased by adding five tower sections to reach 41.5 metres while the jib can be luffed to 30 degrees to reach its maximum hook height. The crane has an eight tonne maximum capacity and can lift 1,300kg at 55 metres radius thanks to its Load-Plus function.

A new eight model range of EC-B flat top tower cranes have capacities from six to 16 tonnes and jib tip capacities from 1.6 to 2.8 tonnes at a radius of up to 58 metres. Three of the new tower



EC-B flat top

cranes will be equipped with the company's new fibre rope developed with Teufelberger. As well as the increased service life, the rope provides up to 20 percent more jib tip capacity compared with steel rope on a high rise.

**Manitowoc**

The group will launch six new cranes - three Grove All Terrains and

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Potain Hup 40-30

three Potain tower cranes including a flattop, a luffer and a new self-erector along with several new technological developments. While details of most of the new launches are being kept secret, the company has confirmed that one of the new products is an upgraded three axle, 60 tonne GMK3060 with longer - 48 metre - seven section pinned boom, improved load charts and a slightly shorter overall length. It will also be available with a choice of Tier 3 or Tier 4 final diesels. Other cranes on show will be the new four axle 90 tonne GMK4090 which was announced at the end of 2017 and an 80 tonne four axle GMK4080-2 - essentially the same crane with less counterweight.

Alongside the three new Potain tower cranes will be the new company's Cab-IN internal operator hoist developed in partnership with German hoist manufacturer Geda. The system is compatible with all Potain bases, allowing it to be retrofitted into both existing crane models. Maximum capacity is 200kg.

### TII Group

Global manufacturer of heavy duty and specialist vehicles Transporter Industry International (TII) Group comprises of Scheuerle, Nicolas, Kamag and Tiiger brands has several launches. For the wind industry TII is showing a third generation wind turbine blade transporter with more lifting power - 610 tonne metres - and easier blade pickup which is ideal for blades over 80 metres long.

Designed in Germany and made in India is the Tiiger Smart Duty (SD) modular platform trailer for moving loads up to 240 tonnes on public roads or industrial areas. Up to 18 tonnes can be transported per axle line. The EuroCompact semi-trailer is an all-rounder that can carry loads from 30 to 115 tonnes for construction machinery,



TII SPMT

transformers and plant components. Finally there is the SPMT and SPMT Light self-propelled modular transporters. The SPMT Light has a platform measuring six metres by 2.43 metres with four pendulum axles and integrated PPU. A 700mm lift ensures sufficient space for lifting and positioning loads.

### Fassi

Recent acquisitions mean that the Italian Fassi Group now includes French aerial work platform manufacturer ATN, Jekko spider and mini crawler cranes as well as Fassi loader cranes - all of which can be seen on stands around the showground.

New Fassi cranes include two new XE-dynamic loader cranes in the 30 and 35 tonne/metre class and feature 360 degree continuous slew and between two and eight extensions. Fassi will also show its latest technical developments which help the operator use the crane smoothly yet quickly, while improving safety. They include the FX-Link, Automatic Winch Control, Automatic Crane Folding, Cab Collision Detection and Integral Machine Control to name a few. Also on display will be the Easy. Box, a solution to storing ignition keys and identification credentials on machines shared by numerous drivers.

Jekko will launch the new JF990 heavy duty tracked spider crane using a Fassi loader crane upper, the hybrid version of the SPX1280HYB mini crawler crane, a full lithium battery SPX532 as well as the MPK06 and MPK12 mini pick & carry cranes. Technology includes a new interface for the Jekko remote controls and the J-Connect



Jekko JF990

telemetry system.

### Manitou

Manitou's MT 420 H - a replacement for the old Buggyscopic - is proving to be highly popular, and to maintain its momentum, Manitou will launch an updated version with improved visibility to the forks thanks to a redesigned boom head, and a new Kubota Stage V diesel. The company will also show the heavy duty MHT 12330. Powered by a Stage V Deutz it has a capacity of either 35 tonnes on the hook or 33 tonnes on the forks. Lift height is 11.76 metres.

Manitou has also been working closely with Deutz on the development of an all electric telehandler drive line. It will show two prototypes, the 3.5 tonne/11 metre MT 1135 equipped with a 360 volt battery pack feeding a 60 kW electric motor and the MT 1335 hybrid, normally fitted with a smaller Deutz diesel, combined with an electric motor and 48 volt battery pack.



Manitou MRT 12330

### Tobroco Giant

Tobroco Giant will launch a new slightly larger machine - a wider, more powerful compact telehandler - the 5048 and will unveil a line of all electric loaders, with technology that will eventually transfer to its growing telehandler line.



Giant 4548

### Terex Cranes

Terex Cranes will show all of its new Demag All Terrain, City type cranes, and a brand new mid range CC crawler crane, the capacity of which is currently not being disclosed. On the tower crane front it will

show the all-new CTT 202-10 flat top tower crane, alongside its new tower crane elevator that can be used both internally within the tower sections or externally. Also check out its new T-Link tower crane telematics system. Rough Terrains will be represented by an upgraded RT90 together with details of future models. Other All Terrain cranes on the stand will include the three axle AC45 City, AC55-3, AC100-4, AC220-5 and AC300-6 with luffing jib.

Terex CTT 202-10



### Genie

As part of a line-up of 17 products Genie will show two new battery powered Rough Terrain articulated boom lifts, with optional hybrid version. While the company has not elaborated on the size of the new booms, we believe that they will include 45ft and 51ft models. The company will also show the latest XC Xtra Capacity telescopic booms including the 65ft S-65 TraX. Also check out the new Lift Connect Telematic system.

Bauma will also be the first opportunity for most visitors to see the new 13ft GS-1330m electric drive micro scissor unveiled at Bauma China in November. With an overall length of 1.4 metres the 780mm wide machine weighs just 885kg. The company will also show a new scissor lift, possibly a bigger brother to the GS-4047 and the lithium option for its slab electric scissors.



Genie GS-1130m





Magni 8.25 SH

**Magni**

Magni will show the new 13 tonne/26 metre RTH 13.26 SH 360 degree telehandler, the world's largest in terms of lift capacity. Also on display will be the 46 metre RTH 6.46 SH. Cab improvements include the addition of a 10 inch XL touchscreen replacing the 7" version on all RTH models from the RTH 6.26 and above. The 7" version will continue on the Smart telehandler range.

Since 2016 Magni has been developing a range of boom lifts with its minority owner Dingli, production models of which will be on the stand. The company also says that it will unveil new Magni designed scissor lifts.

**Skyjack**

Skyjack will be one of the few aerial lift companies with an indoor

Skyjack SJ9253 RT



stand, and can be found in Hall C4, where it will show a new top end Rough Terrain scissor lift based on the SJ9250 - the 53ft SJ9253. It will also show the first models of its next generation electric slab scissors including the SJ4740 - a totally updated model with new scissor stack - which meets new standards and has improved pothole protection and a new controller. All models are updated to the new ANSI rules and new designs and nomenclature will be adopted. It will also show the SJ46 and SJ51 articulated booms manufactured in Oros, Hungary as well as an updated version of its Elevate telematics system.

**Stonebrige Orlaco**

Stoneridge-Orlaco will unveil MirrorEye, an integrated system of cameras and digital displays as an alternative to conventional rear view mirrors which it is currently testing. Also on the stand will be RadarEye - a radar proximity active vision system designed to detect and view objects in zones obscured from the operator's view which can be integrated into any in cab display on the market.

**Wolffkran**

Wolffkran will have three tower cranes on show - the new Wolff 133 B hydraulic luffer, the 60 tonne 1250 B and the latest 6020 clear flat top. The 133 B - Wolffkran's smallest luffing jib crane - is available in two versions, the six tonne capacity 133.6 B with a 2.3 tonne jib tip capacity at 45 metres radius and the larger eight tonne 133.8 B with 2.1 tonnes jib tip capacity.

Although the Wolff 1250 B has been around since 2009 Wolffkran's largest crane has never been seen at a trade show. It has a maximum free standing height of 90 metres, an 80 metre jib with an 11 tonne jib tip capacity. The Wolff 6020 Clear flat top was launched in 2017 and is available in six and eight tonne versions and capable of lifting two tonnes at its 60 metre jib tip.

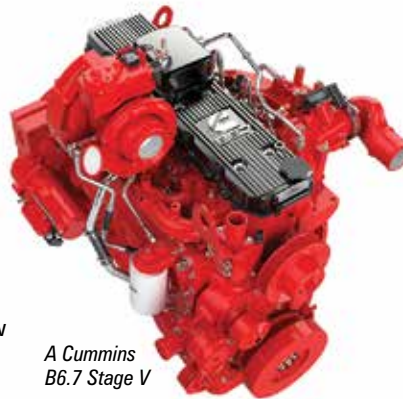
**Cummins**

Cummins is celebrating its centenary and will show its latest Stage V diesel developments, which offer more power and fuel efficiency allowing it to replace engines of higher displacement. Also on show will be the Stage V F3.8 power unit



Wolffkran 1250 B

and an electric solution using a Hyundai battery pack.



A Cummins B6.7 Stage V

**Atlas**

Also celebrating its 100th anniversary Atlas will have six loader cranes on display including the new 26 tonne/metre 262V ST brick and block crane which was designed in response to dealer input and available in the A11/A12/A13 and A14 versions.

Redesigned and updated models include the 256.3 and the 226.3 which now weigh considerably less achieved through a redesigned structure rather than high strength steel, with new sequential controls and improved corrosion protection.

Atlas 173.3E



**Bobcat/Doosan**

Bobcat will show its latest telehandler - the 7.5 metre/4.3 tonne TL43.80HF, with two section boom with a maximum forward reach of four metres, a box frame chassis, low centre of gravity, long wheel base and a large rear counterweight. The machine features new heavy-duty Dana Spicer axles with limited slip differentials, standard boom cushioning, a speed limiter system and standard Eco mode, providing fuel savings of up to 15 percent.

Bobcat TL43.80



**Enerpac**

Enerpac will launch the Trolley System ETR1250 comprising electrically driven trolleys which can carry heavy loads along a fixed rail system, allowing fast



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*Enerpac SL200 hydraulic gantry*

continuous movement compared with skidding systems. It will also show the SCJ50 50T Cube Jack and the new SL200 Super Lift hydraulic gantry, with 200 tonnes capacity, featuring two stage lift cylinders with a maximum lifting height of 6.7 metres.

**Sennebogen**

Sennebogen is celebrating 60 years in business with a number of new machines including its largest telescopic crawler crane - the 130 tonne 6133 E - with a 52 metre main boom and 15 metre extension. The crane has a Tier V engine, dual winches and the Maxcab cab with 20 degrees tilt. The undercarriage

extends from a width of just under four metres to 6.3 metres.

The new 200 tonne 5500 G is the first in the new G Series of crawler cranes with a new modular boom and maximum system length of 104 metres. Load chart improvements are said to be 50 percent better than the old model. A 180 tonne version will also be offered. Power is supplied by a Tier V diesel and with tracks removed the transport width is just three metres. The company says that it will have five other new machines at the show.

**Sinoboom**

Attending Bauma for the first time, Chinese manufacturer Sinoboom will show several new models including five scissor



*Sinoboom GTJZ1212E*



*Sinoboom GTZZ16EJ*

lifts and an articulated boom. They include the 45ft GTZZ16EJ articulated boom lift with direct electric drive, 40 percent gradeability, 9.3 metres outreach and 230kg platform capacity. Overall width is 1.9 metres and overall height of two metres. Of the five new scissor lifts, the 12.4ft GTJZ0407SE is the smallest scissor lift in the

Sinoboom range, it has direct electric drive, an overall length of 1.42 metres, is 760mm wide with an overall height of 1.97 metres. Total weight is 880kg. The 39ft slab electric GTJZ1212E-2 has a platform capacity of 320kg, direct electric drive with a lithium battery option..

**Alimak**

Alimak will launch several new models including an upgraded Alimak Scando 650 FC-S hoist and the new MC 650 mastclimber with a 19 metre platform in single mast configuration rising to more than 40 metres with twin masts. Maximum platform capacities are 4,000kg and 7,100kg respectively. It uses the same mast as the Alimak Scando 650 hoist and can be tailored for corners, curves and angles.

Alimak is also extending its transport platform range - suitable for both passengers and materials - with the addition of the single mast TPL 800, a five person hoist with a lifting height of 100 metres. Lift speed is 12 metres a minute in passenger mode and double that for materials.



*Sennebogen 6133 E*



*Alimak TPL800*





Hinowa LL 33.17

### Hinowa

On its outdoor stand Hinowa will show its 32.5 metre Lightlift 33.17 as well as the Lightlift 26.14 bi-energy spider lifts with lithium batteries and Kubota Tier 4/ Stage V, diesels. The 33.17 is also equipped with Hinowa's RAHM control and remote diagnostics system, with a full telematics suite and will switch off completely if left unattended for more than two hours. The Lightlift 26.14 has a 25.7 metre working height, 13.75 metres outreach and a 230kg platform capacity.

### Merlo

Merlo will launch eight new telehandlers, including four Panoramic straight frame models all of which are available in two versions with stabilisers or without. They also incorporate all of the new features launched at the last Bauma on its agricultural range. Four new Roto units can be seen including its largest to date the 34.2 metre/4.95 tonne Roto 50.35S-Plus. The new ASCS safety system in the new Roto range analyses data in real time such as load position - boom angle, turret rotation and undercarriage rotation - outrigger position, weight of the load and attachment in use to create a load diagram showing areas of safe/unsafe operation.

Merlo P 120.10



### Palfinger

With two stands - one for cranes and one for platforms - Palfinger will display several new products. On the cranes stand will be a new 57 tonne metre electric PCC tracked heavy-duty articulated spider crane, the 25 to 37 tonne metre TEC series, 20 to 25 tonne metre SLD cranes including Smart Boom Control. The stand will also feature VR simulators allowing visitors to sample some of the new features such as the Smart Boom Control system which allows the operator to specify the destination of the boom tip while Paltronic calculates the necessary movement combination.

The access stand will feature its first hybrid truck mounted platform - the 37 metre P370 KS E - and a prototype PK 18502 SH electric powered model, two new Light class NX platforms the P220 BK and the P280 CK, and the P130 A and P 200 AXE Smart class platforms together with a 25 metre P 250 AJTK spider lift and an insulated platform with 14 metres outreach.

A Palfinger PK 135002 TEC 7



A Palfinger P370 KS E



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Stand FS 903/6  
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**IPAF**

IPAF will use Bauma to launch its global safety campaign to address the increase in accidents when operating an aerial work platform on or alongside roads - a significant cause of accidents in Europe as well as North America. It will emphasise the effectiveness of planning and traffic management to reduce danger of operating near pedestrians and vehicles. Visitors will also have the chance to review the updated MEWPs for managers course which is now available as an eLearning module.

**Geda**

German hoist manufacturer Geda with its new corporate branding will show a new improved rack and pinion mast system for its hoists and an all-new Multi Lift hoist. One feature will be a 'Selfie Tower' allowing visitors to test one its hoists in order to take a panoramic selfie. Another focus will be its range of tower crane operator elevators which it can install on any manufacturers' tower systems. It is likely to have one installed on the Wolffkran stand.

**Hiab/Effer**

Hiab's acquisition of Effer - which was finalised in November - will

mean that the two companies will have a combined stand. Hiab is celebrating its 75th anniversary this year but with many models launched at the IAA exhibition last September there will be few surprises. As well as its loader cranes it will show Hi-Connect which remotely connects Hiab equipment through the cloud along with its Hi Vis system which allows the operator to work the crane from the comfort of the truck cab. Effer will, perhaps surprisingly, launch two new Light loader cranes in the five to 11 tonne/metres range and may also show its 2255 flagship model which can reach a height of 55 metres.

**Dalbe**

Family owned Italian crane company Dalbe has exhibited at Bauma before, but always on a dealer stand. This year it will have its own stand, albeit a booth in hall B5, with no chance to have an actual crane on show. It manufactures a full range of self-erecting cranes, flat top cranes and luffers.

**JLG**

JLG is celebrating its 50th anniversary and will have a substantial number of new products on show including three new lithium powered articulated boom lifts. The new models are based on the current 34ft 340AJ, 45ft 450AJ and 52ft 520AJ diesel powered models, with the same structure and lift mechanism, but incorporate an electric drive motor to power the machine's hydraulics and two direct drive electric wheel motors for travel with a heavy duty lithium ion battery pack. They are said to have enough 'grunt to handle all but the worst of rough terrain conditions.

The company will also show its latest Rental series slab electric scissor lifts, including the new 1330 micro model show as a concept machine at Bauma China. It offers a 13ft platform height, 760mm overall



A Unimog mounted Atlas loader crane



TII's wind turbine blade transporter

width, direct electric drive and an overall weight of under 900kg. Along similar lines are the new 15ft 1530 and 19ft 1930R, along with the new 26ft 780mm wide 2632 and 32ft/1.2 metre wide 3246.

There is also plenty of other products to see, including new platform options for boom lifts, the production version of the SkyGuard SkyEye beam type secondary guarding for boom lifts. A new ultrasound proximity detector for scissor lifts and a good deal of new technology, including its BIM modelling system. There will also be an Augmented Reality Mobile phone app that allows a user to superimpose a machine onto the actual work for planning purposes and an app that will allow a mobile phone to be used as a remote controller for drive and steer

functions on its scissor lifts, for safer loading/unloading etc... Look out for more coverage in our second preview in the March issue.



JLG Rental series scissors

Liebherr LR1800-1



A JLG 520AJ







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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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