



# SJ16 VERTICAL MAST LIFT

A compact footprint, superior maneuverability and zero inside turning radius.

ANSI model shown.

Skyjack's self propelled vertical mast lift features a compact footprint and superior maneuverability. The SJ 16 has a working height of 6,75 m. When operating in tight workspaces, a high degree steer angle allows superior functionality and flexibility by offering zero inside turning radius. The SJ 16 features a 0,41 m traversing platform, providing increased access and the ability to reach over potential obstacles. A unique slide away platform provides easy access to components, when raised or in the stowed position.

**SKYJACK**

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# Is Paris in the spring enough?

This is an important year for Intermat which takes place in Paris from 16th - 21st April. The global manufacturing shift coupled with the international dominance of Bauma and other expanding regional shows such as Bauma China has put pressure on Intermat. Once one of the three major international exhibitions - the others being Bauma and Conexpo - Intermat's importance and draw for manufacturers has waned over the past two shows. Can it re-build its status this year or will 2012 place it firmly in the regional show category?

Intermat 2009 attracted almost 185,000 - visitors a third of which came from outside of France. However for visitors looking for a full suite of equipment manufacturers, several major French companies were missing, including Haulotte and Manitou. This year Haulotte has a significant presence, while Manitou is giving it a miss again, while Manitowoc has also decided not to attend, which perhaps says a lot about the show's current stature.

On a more positive note, there are still many companies in the crane, access and telehandler sector at the show and early indications suggest that there will be plenty of new equipment launches, particularly for telehandlers. In this our first Intermat preview we take a quick look at some of the most interesting products.

## Tower crane anti-collision systems

One area where this show will beat all other is that of tower crane anti-collision devices. France is without question the centre of

excellence for this technology and all the key manufacturers will be present including newcomer AMCS. Established in 2004 AMCS was until recently dedicated to installing and servicing anti-collision devices. But over the last few years it has spent its years of first-hand on-site expertise to design and build a better system that uses the latest technology - incorporating the latest data logging capability - in an easy to install and use system.

Ascorel says it has quietly manufactured more systems than any other - with 5,000 in service - thanks to its long term partnership with Potain. The company has invested heavily in its technology and has much to show at Intermat. The other two major manufacturers in this sector - SMIE and AGS - will also be exhibiting.

## Liebherr Telehandlers

Liebherr will unveil several new products including a revised four model range of telehandlers, with lift heights of either 10 or 13 metres which is similar to previous models - however maximum load capacities



have been increased to 4,100kg and 5,000kg. Other changes include a new, large cross-section boom profile giving increased rigidity, coupled with a low boom pivot point to improve the centre of gravity adding to the machine's stability. A new audible and visual overload warning device will also be fitted.

The new models are powered by turbocharged Tier 3B engines and an optimised hydrostatic transmission to provide improved fuel consumption, particularly when frequent changes of direction have to be made.

All feature electronic pre-selection of three steering modes without having to return the steering to the straight-ahead position and all are equipped with Liebherr single-lever 'joystick' control.

The 13 metre models, equipped with stabilisers, also offer the option of lateral boom movement. This is obtained by sideways movement of the machine on its supports pads. The working attachment moves in parallel with the ground throughout its range, providing precise load movements even at full height, without needing to move the base machine.



Liebherr 65 K

## Fast erecting crane

The 4,500 kg maximum capacity Liebherr 65 K - based on the very successful 81 K launched two years ago - can handle 1,400kg at its 40 metres maximum radius. As with the 81 K, all lifts are carried out using the Speed2lift two-fall operation which means no reeving is required for improved productivity and safety. The crane can be transported - complete with ballast - with just two trucks.

Transport length has been reduced to less than 14.5 metres and the smaller wheel gauge of six metres improves manoeuvrability. Base dimensions are 4.2 metres square with slewing radius of 2.55 metres.

The 65 K uses the drive and control technology first introduced on the



Liebherr TL451-13



Students demonstrating the safe use of platforms and artistic talent



81 K, including the 'Micromove' fine-positioning mode allowing heavy loads to be positioned accurately without the hoist gear brake being actuated. Up to five tower sections can be inserted, and the 30 degree luffing jib position offers a total of 14 under hook heights, from 15.6 m to 51.7 metres.

### IPAF

The International Powered Access Federation - IPAF - is taking its "Spread the load" safety campaign to InterMat with active on stand demonstrations of the difference an outrigger mat makes to stability. It is also bringing its urban street art demonstration first seen at a German show last year. Two teams of artists will use various aerial lifts to reach the huge canvases to paint the massive pictures during the show, both of which will highlight the Federations safety messages.

IPAF will also promote its recently launched campaign to gather reports on all known aerial lift accidents, aimed of producing meaningful data and helping to improve the safe use of equipment. There will also be a number of meetings and events during the show including its Manufacturers' Technical Committee Meeting on 20th April.

### Terex Cranes

Terex plans to show its Challenger 3160 All-Terrain crane which it claims is the only fully equipped, three axle 55 tonne capacity class machine designed for one-man

Challenger 3160.



operation (The UK market has the Challenger 3180, which takes into account the higher axle loads that the STGO rules allow.)

Also on display will be the 100 tonne Roadmaster 5300 designed to be mounted on a commercially-built five axle truck chassis, reducing purchase and operational costs. The crane can carry a maximum counterweight of 8.15 tonnes within the 12 tonne European axle limits. Terex also says that it will unveil a new self-erecting tower crane.

Terex Roadmaster 5300



### Merlo

Although no new models have yet been announced, Merlo can never resist showing something new at a show. Its new CDC (Dynamic Load Control) system is said to exceed the longitudinal stability requirements of EN 15000. The system automatically detects and recognises an attachment as soon as it is fitted (bucket, clamp, platform winch etc.) and the CDC system automatically creates a virtual work diagram, allowing the operator to view the position of the load - height and radius - via a very clean and clear multi-function colour display in the cab. Illuminated progress bars give an easy to understand graphic of the stability of the machine as well as showing real-time monitoring of the weight being handled, its height from the ground and machine forward reach. When in an overload situation - in the display's red zone - the operator must manually correct the situation.

The company has reported a healthy increase in orders and shipments for 2012, with revenues up 30 percent

on 2010 - but this has meant delivery times slipping to around five months.

### JLG

JLG is keeping quiet on new machine launches at this stage, but will certainly exhibit its most recent product launches, including the 150ft platform height 1500SJ Ultra Boom, the 34ft 340AJ and 51ft 510AJ articulated booms, along with its track mounted spider lift models, which have now been integrated into the JLG product line and after sales support system. As this is France - home of the mast boom - expect a full Toucan display as well.

JLG 510



### Wacker Neuson

German equipment manufacturer Wacker Neuson will launch its new EN15000 compliant telehandler stability system "smart handling". The company says that unlike other devices "smart handling" is a fully automatic system that retracts and/or lowers the boom and load to improve stability without the machine cutting out or needing to be restarted. The new system is standard on all of its telehandlers apart from the ultra-compact models of five metres and under.



Kramer 2506

### Mecalac

Having dropped the Ahlmann brand name in favour of Mecalac, the company will launch the new the AS 900 tele telescopic swing loader.

The four wheel steer loader can be fitted with various attachments including work platform and bucket, with a lift height of up to 4.72 metres (dump height 4.01 metres) and a forward reach of up to 3.5 metres. The AS 900 tele can swivel its telescopic arm 90 degrees to both left and right, increasing the working range considerably - impossible with a standard fixed frame telehandler.

The unit can also be equipped with several rear attachments and be used as a tractor for a trailer, or a sand/salt distributor for winter services.

Mecalac AS 900 in action



### Bobcat

Bobcat is expanding its range of new generation TL telehandlers with the addition of the high horsepower TL470HF. Powered by the 97.5 kW (130 HP) Perkins 1104D-E44TA diesel engine, the new telehandler offers improved performance and a 40kph maximum travel speed.

Its new load sensing pump offers faster cycle times at lower engine speeds when performing both single and combined boom movements helping reduce fuel consumption and improve efficiency. Maximum lift capacity is 3.5 tonnes and



Bobcat TL470



maximum lift height seven metres. Capacity at full lift height is three tonnes, while the maximum forward reach is four metres with a 1,500 kg load.

A patented new asymmetric design means the right rear corner of the cab is free of structural components providing an unobstructed view across the entire rear of the machine.

### Kobelco

Crawler crane manufacturer Kobelco will show two units from its new seven model G Series 'green' environmental range which extends from 60 to 250 tonnes. The units are the 80 tonne CKE800G and 250 tonne CKE2500G - one of three 250 tonners purchased by Mammoet. The cranes - announced at Conexpo and which started shipping last October - feature a number of new energy efficient features including auto engine idle/stop, the G-Winch which allows maximum speed with engine at idle speed when not lifting a load, EUR Stage IIIB engines with Diesel Particle active Reduction system and a new hydraulic circuit selection system with dual pump flow, allowing the operator to select the most efficient mode for the specific job.

Other features include more spacious cabs complete with larger colour touch-screen monitors with pictograms, which integrates the Load Moment Indicator and machine condition indicator in one unit.

Kobelco also says to look out for a possible surprise exhibit at the show.

### Haulotte

Haulotte will perhaps look to make the most of the absence of leading telehandler manufacturer Manitou,

by exhibiting its entire HTL telehandler range for the first time. With lift capacities from 3.2 to four tonnes and lift heights from 10 to 17 metres the Haulotte telehandlers can be fitted with multiple accessories including access platforms, hoists and jib extensions.

The company will also unveil a number of new aerial lifts at the show, including the face-lifted compact C10DX and C12DX diesel powered scissor lifts. Changes include a modified chassis, one button automatic levelling for the 'beefed-up' outriggers, a new Tier 4 Kubota engine giving a five percent fuel saving, an improved hydraulic system, a new control box and reduced noise levels. The company also says that a new paint process provides a superior finish.

Haulotte says that it is also working on new 23 and 21 metre booms and the prototype of the larger may feature on the stand if it is ready in time.



Haulotte Compact C10DX

### Ausa

Spanish equipment manufacturer Ausa will launch the 2.3 tonne capacity, 4.5 metre lift height T235 H, which it says completes its telehandler range. As with the diminutive T144 H, launched at Bauma, the T235 H features a tilt cab to provide easy service and maintenance access. It also features 4x4x4 drive and steer and can scale slopes of up to 44 percent under full



Ausa HTL3510 & 4010



Ausa T235H

load. Ausa says the machine is a real alternative to mini loaders with additional capacity, safety and comfort. It uses a Kubota engine and Rexroth hydrostatic transmission.

### Genie

Genie will exhibit several new machines at Intermat, including two new 360 degree telehandlers featuring improved capacity, intuitive controls, simplified operation and reduced service time. The company will also show the production version of its new 40ft/14 metre working height narrow aisle compact scissor lift, the GS4047, shown as a prototype at Apex in September.

### New Holland

New Holland is expanding its telehandler range to eight models with the first appearance of the compact - less than two metres high and 1.8 metres wide - hydrostatic transmission LM625. Manufactured by Dieci, the LM625 has a lift height of just under six metres and a 2.5 tonne lift capacity. Features include a turning radius of 3.4 metres, auto-locking front axle and choice of 70hp or 84hp turbocharged engines.



New Holland LM625 cabin

### Dana Rexroth

Dana will debut the new Spicer 318 hydrostatic continuously variable transmission for compact front-end loaders and medium-sized telescopic handlers. Last October, Dana and Bosch Rexroth announced the completion of a 50:50 Joint Venture, based in Arco, Italy, to develop and manufacture advanced powersplit drive transmissions for the off-highway market.



Dana Rexroth HVT R3.

### Yanmar

Engine manufacturer Yanmar will launch four new EPA Tier 4 and EU Stage IIIB water-cooled industrial diesel engines. In total 10 models are available - a mix of three and four cylinder diesels, indirect and direct injection - ranging from 10kW to 56kW.



Yanmar 4TNV88C.

Part Two of our Intermat Preview will appear in the March issue of Cranes & Access.

## The basic facts

**When?** April 16th to 21st of April

**Where?** Paris, France

**Getting there:** The exhibition centre in Villepinte is close to Charles de Gaulle airport to the north of Paris and easily accessible by Train - TGV, RER - and air of course.

**How big?** 1,500 exhibitors, 375,000 square metres of exhibit space, around 180,000 visitors from over 160 countries with particular emphasis on France, North Africa, the Middle East and Russia.

## What to see

**Telehandlers** - almost all manufacturers will be present, Manitou is the only major not attending.

**Access** - JLG, Genie, Haulotte, Skyjack will all be attending along with most truck mounted and spider lift manufacturers.

**Cranes** - Liebherr, Kobelco, Terex, Sany, Maeda, Unic

**Loader cranes** - Palfinger, Atlas

**Accessories** - A wide range of companies will be showing including all of the main tower crane anti-collision system manufacturers.



# INTERMAT

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