



Showcasing the Maeda MC815 Mini Crane

MC815

NEW TO THIS MODEL

Hydraulic luffing and extending Fly Jib

1 tonne Searcher Hook

Joystick control

New HBC technos 2 telemetry system with travelling via remote

Self levelling function

Auto crane stow mode

MSOS (Maeda Safety Operation System)



- **Massive 8 tonnes** lifting capacity making it the strongest lifter to date
- **19.4m** tipping height
- **EU stage 3B** compliant engine to make it environmentally friendly
- **New 10.4"** multi function touchscreen monitor
- **Added bonus** of 1000kg pick and carry capacity, this crane offers unrivalled versatility with great lifting duties
- **Optional 1500kg SWL** hydraulic 2-section Fly Jib increases maximum lifting height to 25.5m
- **All new** Searcher Hook giving class leading duties of 1000kg

Consider the Possibilities...

For more information on these cranes or any of our other products, please contact:

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Spectacular, spectacular!

c&a

Liebherr

Last month Liebherr held its tri-annual Customer Days 'open house' at its mobile crane facility in Ehingen, Germany. This year's theme was 'Strongly Connected' and included several new model introductions as well as spectacular mobile and crawler crane demonstrations.

More than 3,000 customers attended the two day - Wednesday and Thursday - event and it was anticipated that 15,000 Liebherr employees and families from the local area would visit the production facility on the Saturday.

As usual the Customer Days were visually spectacular, showcasing the latest technology, developments and products together with a mobile crane and crawler crane demonstration with a firework and laser light show to close the event.

Previous Customer Days have been remembered by amazing crane art - the 2012 four crane 'mobile' with the 3,000 tonne LR13000 supporting the LR 11350, the LR 1350 and the LTR 1100, and then three years ago two LTM 1750s mounted upside down by their booms on a rotating crawler crane undercarriage.

This year the main display was a Liebherr 'spider crane' - one of its new Rough Terrain cranes caught in a spider's web of rigging between the lattice booms of two crawlers.

Liebherr always uses the event to launch new products - this year it unveiled the 230 tonne LTM 1230-5.1 All Terrain and the 800 tonne LR 1800-1.0 crawler crane.

LTM 1230-5.1

The new LTM 1230-5.1 features a 75 metre main boom - three metres longer than its predecessor the LTM 1200-5.1 - with average capacities said to be 20 percent greater, partly due to the new VarioBallast system which adjusts counterweight tail swing from 4.8 to 5.7metres.

The crane has an 11.5 to 22 metre bi-fold swingaway with up to 40 degrees of offset and a hydraulic luffing option. Additional reach is available by inserting up to three, seven metre straight lattice sections between boom nose and swingaway. A fixed offset 43 metre jib is also available that can incorporate a hydraulic luffing section to create a type of luffing jib with up to 45 degrees of offset. The attachments can also be configured to produce a high capacity 39 metre fixed jib. Maximum hook height has been increased by 10 metres to 111 metres making it ideal for erecting tower cranes or maintaining wind turbines.

The crane uses Liebherr's single engine concept with a Stage V, six cylinder chassis mounted engine driving a 12 speed ZF Traxon transmission and superstructure



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Two LTM 1750-9.1 and two LTM 1450-8.1 during the demonstration

pumps by a mechanical shaft system through the centre of the slew ring. Additional features include EcoMode and EcoDrive

to maximise fuel efficiency while reducing noise and emissions and the 'Hill Holder' feature to assist with hill starts.

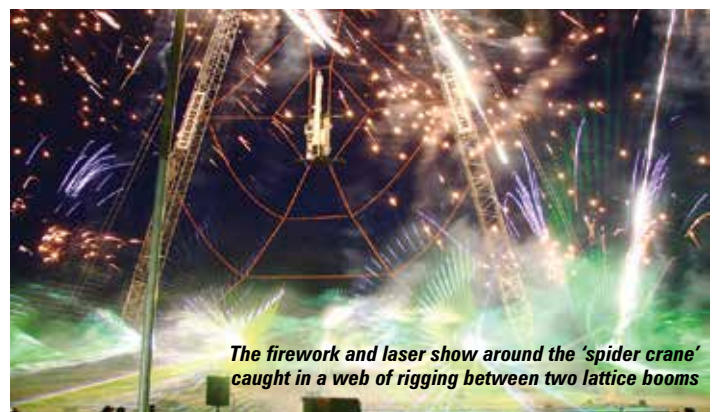


The cab of the new LTM 1230-5.1

The LTM 1230-5.1 is unusual in that it has an asymmetric outrigger base with a front spread of 7.4 metres and a wider rear spread of 8.1 metres which is said to provide additional capacity over the rear quadrant. It is also equipped with Liebherr's VarioBase outrigger set-up system.



A full line up of Liebherr's LTM cranes



The firework and laser show around the 'spider crane' caught in a web of rigging between two lattice booms

LR 1800-1.0

The newly designed 800 tonne LR 1800-1.0 lattice boomed crawler crane was unveiled by being erected by other crawler cranes in the Liebherr range from the LTR 1100 to the 3,000 tonne LR 13000. With the cranes lifting the various components - main body, tracks, ballast, boom and hook block - into position, the LR 1800 was fully erected in less than 40 minutes. The crane also introduces a new nomenclature system, with the -1 being the first 800 tonner and the .0 being the first generation. An upgrade would be a 1.1 while a totally new 800 tonner would be a 2.0.

Liebherr says that its main features are load chart capacities and efficient transport, as well as its luffing jib and derrick system designed with an eye on power plant construction and the petrochemicals industry.

The crane slots between the 750 tonne LR 1750 and the 1,000 tonne LR 11000 and has a standard main boom of 84 metres and an 84 metre luffing jib but can also be configured with a main boom of up to 102 metres, while the luffing jib can be extended to 102 metres. The boom and jib use three different sizes of lattice section - the bottom half of the main boom uses the largest sections, with the medium sections used for the top half of the boom and the bottom half of the jib, finally the small sections are used for the top of the jib - they can all be telescoped inside each other for more efficient transport.

The widest component has an overall width of just three metres and the heaviest is 45 tonnes. The machine base with tracks in place is said to weigh 60 tonnes, but only 45 tonnes with tracks removed. Maximum counterweight comprises 230 tonnes on the superstructure, 70 tonnes on the chassis/carbody and 400 tonnes of derrick ballast. A new folding frame guides the suspended ballast and is variable up to a 23 metre radius. Power comes from a V8 Stage V diesel.

Liebherr claims the new LR 1800-1.0 is currently the most powerful crawler crane on the market with a basic machine just three metres wide.



1. The body being lowered into position using an LR 1500



2. The two crawler tracks are next



3. The LR 1500 and LR 1600/2 are used to put on the tracks



4. Next the two ballast carriers are lifted into place



5. The ballast is installed using LTC crawler cranes and a special ballast lift attachment



6. Next the boom is lifted into position



7. Finally the hook block being carried by one of the new T33.10 telehandlers



All finished in less than 40 minutes