

The new EC-B
Tough Ones



LIEBHERR

Tough Ones

for the future

The EC-B cranes – an irreplaceable part of the Liebherr product portfolio. Flat-Top cranes have outstanding properties, relating to both their erection and transport, and their special design without tower head also means that multiple cranes can work closely together safely on constricted sites.

Nowadays, Flat-Top cranes are the standard crane on building sites around the world. We have taken the outstanding features of the existing successful EC-B series as a basis and improved them with a range of highlights to ensure that they remain the crane of choice for the future. The result is Tough Ones which deliver everything customers want in terms of performance, erection solutions, control system, convenience and appearance. Make sure you have Tough Ones on your site!

There is a Tough One in all of them.



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Tough Ones

have power

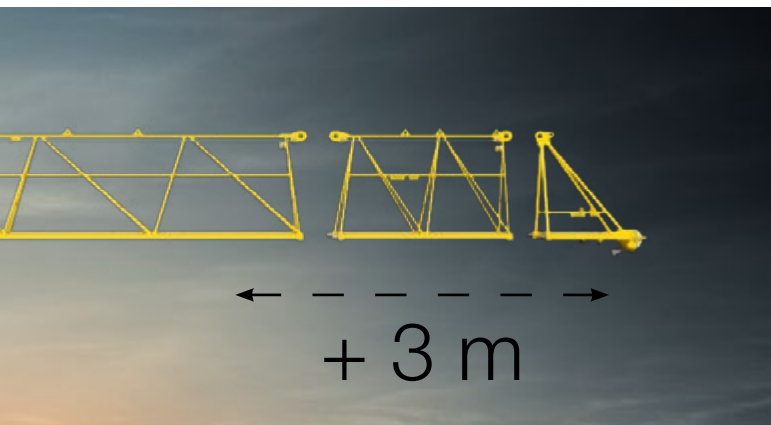
Unmatched performance



Tower performance

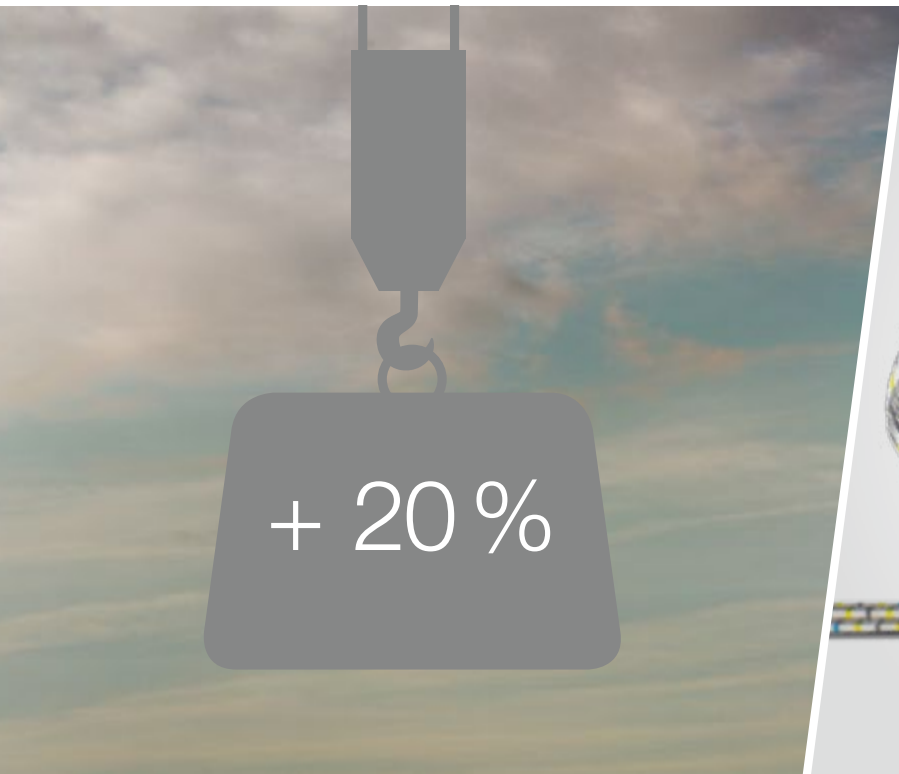
The new EC-B cranes can of course be combined with the existing towers in our portfolio. The special feature of this is that they use the performance of the tower systems better than ever before. This means that even the largest Flat-Top

crane, the 370 EC-B Fibre, can be used with the 21 HC 290 tower system without any restrictions – in other words you enjoy top economy with a conventional tower system which is already widely available on the market.



Jib extension

Even the standard versions of the cranes achieve long ranges. We can also deliver options to adjust the jib length flexibly to suit your site. A three-metre extension achieves the longest ranges in all classes. A 2.5 m intermediate section allows the standard increment of 5 m to be refined even further. That enables you to use your cranes on as many different sites as possible.



Load-Plus

No hoist is too heavy for the new EC-B cranes. The Load-Plus function gives you up to 20% more lifting capacity at the touch of a button.

Fibre version

The EC-B cranes deliver even greater capacity if you use the Fibre versions. The core feature of the cranes with the new fibre rope is the low weight of the rope and hook block, which directly affects the crane's lifting capacity. The unique features of the Fibre Cranes also include a longer service life and easier maintenance and handling.

Other features

Lighter components // Lightweight construction for easier erection and greater lifting capacity

Various lifting capacity versions // Either large maximum lifting capacities or outstanding lifting capacities at the jib head

Pure 2-fall // Maximum handling capacity using maximum hoist speed

High-performance drive units // Precision operation using Micromove and adjustable slewing gear modes



Tough Ones

are in full control

Brilliant mounting solutions



New compact head

The core of the crane, the slewing platform, was the particular focus for the revision of the EC-B series. Lightweight construction methods mean that the new models are up to one tonne lighter - depending on the crane type. Furthermore, both the cabin and the switch cabinet platforms are secured to the slewing platform with quick-release connections so that they can be installed and removed quickly. The reduction is particularly beneficial if only small mobile cranes are available.

New quick-release connections

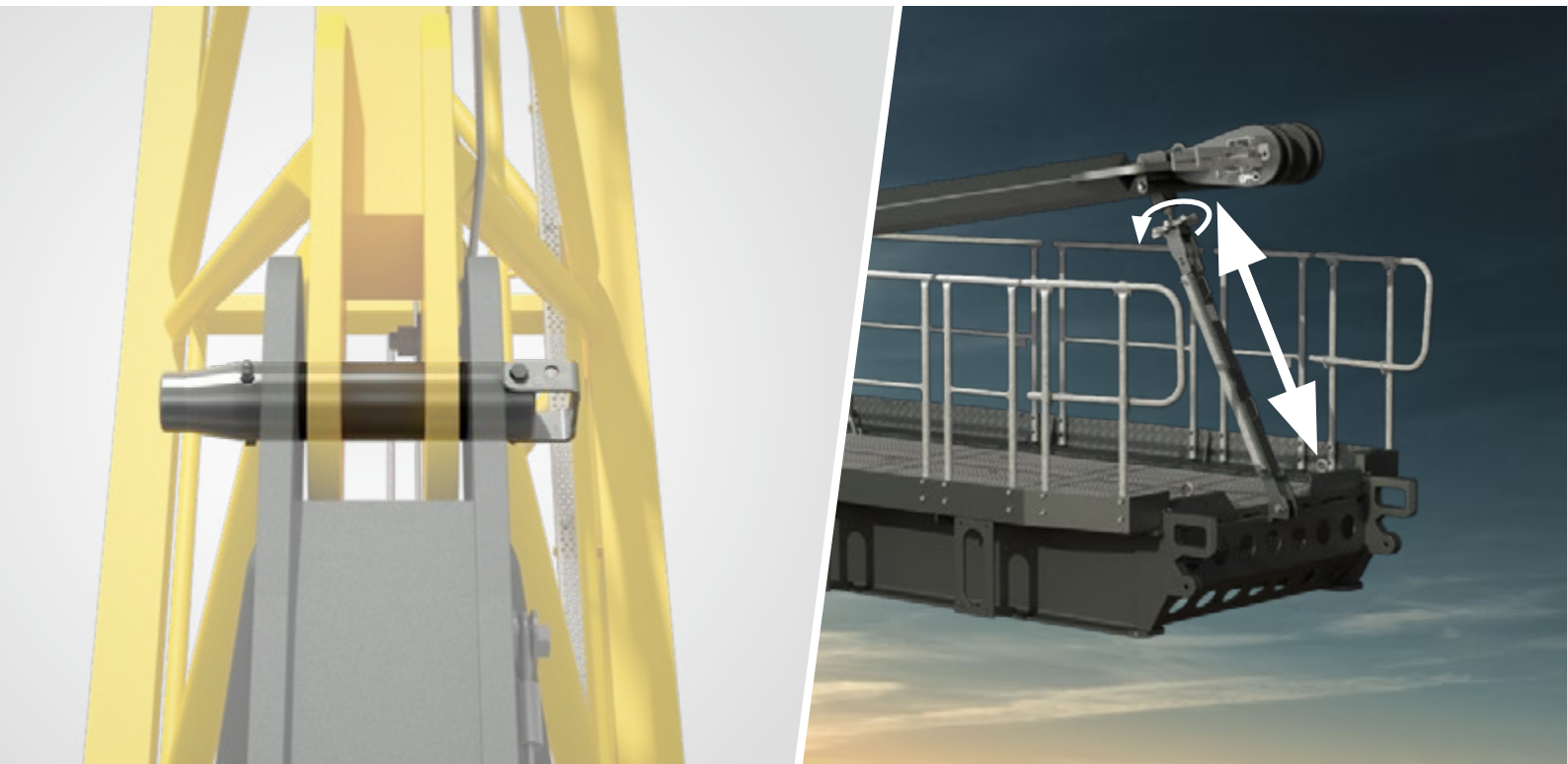
The LiConnect quick-release connections make connecting the slewing platform to the jib and counter-jib even easier and safer. This means that the erection process can take place even in difficult weather conditions and at a slight gradient – in other words at a positive or negative angle. This saves time in the erection preparation process.



Improved for transport

The jibs for the new EC-B cranes have extremely small external dimensions. This means that three long jib sections can be stacked on the bed of a standard truck for transport. In other words, for example, the 370 EC-B Fibre can be transported using just four trucks. This reduces both CO₂ emissions and transport costs.

Brilliant mounting solutions



Heavy pins easy to handle

One jib pin can weigh up to 30 kg. That is quite a weight for a service technician to handle at great heights. So we have come up with the perfect solution. In the future the erection engineer can insert the pins safely using a handle and a centring tool. The flattened end of the pins, the centring tool, makes inserting the pins easier, particularly if the component being erected has not yet been properly aligned.

Height-adjustable support of the counter-jib guying

To help service technicians, the EC-B cranes have an additional support for the counter-jib guying. The height can be aligned precisely using a smooth running adjustable spindle. This makes erection easier.



Pickaback system

Transporting the counter-jib with the pickaback system is a time-tested transport option for existing EC-B cranes. Loading and unloading in one hoist helps to speed up the

erection process and transporting the complete counter-jib on one truck shows that large cranes are now as compact as small ones.

Other features

Tower bolting from the slewing platform // Safe working practice without erection platforms

Quick-release electrical connections // Simple plug-in process replaces complicated connection. Coded plugs prevent errors

Pin magazine // Pins are stored in the pin magazines so that they are always in easy reach

Improved transport // Can be transported in a small number of packages

Catwalks to the jib head // Ergonomic and safely accessible

Time-tested Liebherr accessories // Substructures, towers, LiUP – you can continue to use all the familiar accessories



Tough Ones

provide support

Smart operating system



Tower Crane OS

We are all familiar with tapping, swiping and pulling on a smartphone or tablet. The control system of our EC-B cranes is now just as simple and intuitive. A touchscreen, gesture control, clear displays, excellent menu structure and all the main information at a glance – extensive training and induction times are reduced as a result of the simple control interface of the TC-OS Tower Crane Operating System.

Operating-range limiting system

The adjustment of the operating-range limiting system is supported graphically by the TC-OS. The limiting shape is drawn and displayed in real time. The crane operator can adjust the map alignment as he wishes, similar to a vehicle navigation system. That means that either the crane or the environment moves in the display.



Intelligent assistance systems

Modern construction in the 21st century is characterised by ever greater complexity in less space, coupled with time and cost pressure. The demands on construction machinery and its operators are growing, especially for tower cranes. To help the crane operators with their work whilst also increasing handling capacity, reliability and safety, the control system on the new EC-B cranes features the familiar Litronic assistance systems.

Scaling assistant

The scaling process is one of the most important steps in a safe commissioning procedure for a crane. The newly developed scaling assistant provides the service technician with predefined masks and selected possible inputs for this purpose. The control system automatically adopts the correct load diagram and settings. At the same time a logic check of the settings is carried out in the background.

Scaling is significantly easier with the scaling assistant and safer than previously, even in difficult conditions.

Other features

Clear information // Unambiguous colour display as soon as critical states are reached (for example max. lifting capacity reached)

Camera // Add conventional trolley camera systems to the multi-touch display – no additional display required

Over-the-air update // Software remains up to date at all times

Membrane keys // For direct access to the main functions

IP65 equipment // The surface of the display is insensitive to water and dust

Various user levels // Each user only sees the content relevant to him



Tough Ones

like feeling at home

Comfortable working environment



More comfort and more space

With a floor area of 2.35 m², the LiCAB® has more space than any previous Flat-Top crane cabins. A well-designed, tidy interior design, the individually adjustable control stand and various other features make the cabin into a second home.

Unrestricted good view

In addition to its size, one of the main features of a crane cabin is the quality of the view it provides. Even from the outside it is obvious that the LiCAB® has been completely redeveloped with special attention being given to improving visibility. That enables the crane operator to have a perfect view of the site at all times, enhancing the safety of personnel and the machine.



Three versions

The LiCAB® is available in three different equipment versions. Even the Basic version includes a range of comfort features and ergonomic improvements. We can supply the perfect version for any climate zone, be it hot or cold.

Our LiCAB® Air and the LiCAB® AirPlus feature a new air conditioning concept.

Ergonomic workplace

The crane operator's workplace must provide adequate comfort to enable him to concentrate on his work for a full day. The control stand can be tilted, moved or the armrests can be adjusted ergonomically to suit the individual needs of every crane operator.

Other features

Ventilation concept // Fast, targeted heating or air conditioning of the cabin using revised ventilation concept

Storage trays and sockets // To ensure everything has its place and works, with USB and 230 V equipment

Timer for HVAC // No more annoying waiting to get to working temperature and a clear view



Tough Ones

have charisma

Impressive design



Remote effect

The best publicity for your company? The whole world can see the buildings where you are performing outstanding work. What could be better than using the most obvious

point on the site – the crane. All made possible by the striking, unique look of the new EC-B cranes.

Colour

Design the crane to suit your wishes. We can deliver a range of versions to enable you to finish the crane in your corporate colours. The two-colour concept makes particularly low-cost adjustment possible.

Advertising space

Up to 9 m² of advertising space has been included for you in the crane's design. And what that really means for you is that you no longer have to worry about surface areas susceptible to wind or about additional erection or transport work. We supply the complete package, including installation and lighting. To ensure that it is not just your crane which shines brightly.



The direct line for Tough Ones:
www.liebherr.com/tc/EC-B
