

# Tower Crane Solutions

# Wind turbines

**Tower cranes  
for use on  
wind turbines**



# LIEBHERR

# Tower cranes for wind turbines

## The 1000 EC-B 125 Litronic

Liebherr has developed special tower cranes for assembling wind turbines. These cranes feature economical transport, low area requirement for erection and precision operation even in high wind speeds.

The new 1000 EC-B 125 Litronic Flat-Top crane can lift a maximum of 125 tonnes and has been completely designed for assembling wind turbines.



### Technical data

Max. lifting capacity up to radius	125.0 t 9.0 m
Max. radius	36.5 m
Max. lifting capacity at the tip	19.35 t
Max. hook height (4-fall)	195.0 m



### Guying

Despite the enormous height the cranes only have to be guyed once to the tower depending on the job in hand.



### Bespoke solutions

Together we can develop the best foundation solution for your project.



## High up

The tower crane climbs into the air all by itself. The 1000 EC-B 125 Litronic Flat-Top crane climbs up to twice as fast as conventional tower cranes using its completely new climbing equipment.

### High wind speeds



As a result of their design, tower cranes can operate precisely even in high wind speeds.



### Precise and safe

Even very heavy loads can be positioned precisely using MICROMOVE fine positioning mode.



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# The 630 EC-H 70 Litronic

The innovative solution for the use of tower cranes for assembling wind turbines was developed in 2011. Several wind turbines have already been erected using the

630 EC-H 70 Litronic. Its maximum lifting capacity of 70 tonnes has already been used for wind turbines with a hub height of approx. 140 metres.



## Technical data

Max. lifting capacity up to radius	70.0 t 8.3 m
Max. radius	30.9 m
Max. lifting capacity at the tip	10.7 t
Max. hook height	171.0 m



## Everything in view

A perfect view of the load makes it easier for the crane driver to position units precisely.

## Arrive safely

The logistics cost for transporting a tower crane is much lower than for comparable crane systems. Conventional semi-trailers are usually all that is required.



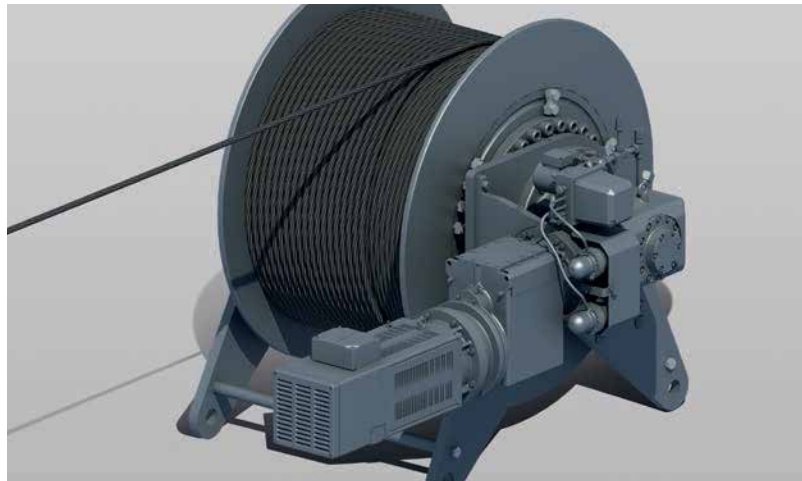
## Simply well-placed

One of the main features of tower cranes is their low space requirement. The area requirement for erecting the crane is around 50% of other crane systems.



## High working speeds

The high performance hoist gear makes a major contribution to the economical use of the cranes. Loads can be lifted at speeds of up to 37 m/min.



## Step by step

The tower crane climbs into the air quickly and safely.





# Your solution

## Tower Crane Solutions

Liebherr's tower crane division has appointed a special competence team in Biberach an der Riss (Germany). It will operate as "Liebherr Tower Crane Solutions" and consult with customers engaged on special projects, including power station and industrial plant construction or wind turbines.

For these projects, "Liebherr Tower Crane Solutions" will assemble know-how from the worldwide network of Liebherr companies and dealers, and coordinate the cooperative process between the design, stress analysis, production, sales or rental and after-sales service areas of the project. The aim is to give customers access to the full range of benefits available from Liebherr's worldwide experience. From the planning phase onward, experts from the competence centre will consult with the customer's staff to develop efficient, cost-effective procedures. If necessary, special-purpose cranes or modified series-production models will be recommended in addition to cranes from the standard programme.

The business areas of power-station and plant construction, wind turbine construction and special projects are now supported by project management departments that the division has established. For each of these business areas, customers are supported by a dedicated partner within the division, whose task it is to provide optimal support and the appropriate know-how for the relevant requirements.

The competence team has already recorded initial success with the project planning and commissioning of the 630 EC-H 70 Litronic tower crane for the construction of a wind turbine. For this task, Liebherr developed an entirely new, cost-effective solution for wind turbine installation with a tower crane, and one that avoids unnecessary consumption of valuable resources.

## Ask us

Please do not hesitate to contact us if you have any questions relating to tower cranes on wind turbines.

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