



# LC1100 series

Flat-Top System®  
Up to 213.2 ft/65 m jib range  
From 5t to 8t maximum load

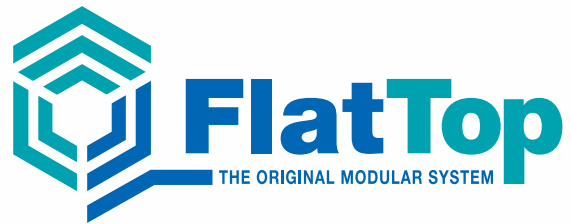


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## LINDEN COMANSA QUALITY

In 1977, LINDEN was the **first manufacturer to design and produce tower cranes without struts**, and since then LINDEN COMANSA has developed a complete range of cranes with the **Flat-Top®** modular system. Our long experience with the strut-free crane system has allowed us to develop the LC1100 Series, adding the latest design advancements of the **Flat-Top®** modular system.



LINDEN COMANSA's **Flat-Top®** system enables the crane jib to be erected easily in sections, offering more erection options according to space availability or accessory machinery.

In addition, when several cranes are used at the same site the **Flat-Top®** system allows the distance between them to be reduced, also reducing the erection cost and time.



## A MODEL FOR EVERY NEED

LINDEN COMANSA presents its **LC1100 Series**, consisting of six **Flat-Top® tower crane models** designed to cover the needs of the most demanding clients.

Model	Max. range	Jib end	Max. load
11 LC 90 5t	Up to 52.5 m/172.2 ft	1,200 kg/2,640 lbs.	5,000 kg/11,020 lbs.
11 LC 90 6t	Up to 52.5 m/172.2 ft	1,200 kg/2,640 lbs.	6,000 kg/13,320 lbs.
11 LC 132 5t	Up to 60 m/196.8 ft	1,200 kg/2,640 lbs.	5,000 kg/11,020 lbs.
11 LC 132 6t	Up to 60 m/196.8 ft	1,200 kg/2,640 lbs.	6,000 kg/13,320 lbs.
11 LC 150 8t	Up to 60 m/196.8 ft	1,700 kg/3,750 lbs.	8,000 kg/17,630 lbs.
11 LC 160 8t	Up to 65 m/213.2 ft	1,400 kg/3,080 lbs.	8,000 kg/17,630 lbs.





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## EASIER ERECTION

One of the main innovations of the LC1100 Series is the **compact design of the slewing part**. The slewing motors, the hoist motor, the electric cabinets and the safety systems are **preinstalled and connected at the factory** on the slewing platform, which facilitates transport, erection and maintenance. Once the slewing platform is erected, the connection is completed via **two simple jacks**, which considerably reduces crane erection time.

**The weight of the rotating anchor has been reduced** by introducing a new link of machined bolts between the cathead and the turntable, thus improving the erection weights of the previous series. The maximum erection weight of the 11 LC 90 crane with a 24 kW (32 hp) lifting motor is reduced to 3,100 kg (6,830 lbs.); while the maximum erection weight of the 11 LC 160 crane with a 37 kW (50 hp) lifting motor is reduced to 3,800 kg (8,380 lbs). This weight reduction means that less additional machinery is needed for erection work.

The design of the **counterjib**, with its lighter, flat structure (without latticing), permits faster erection. **The counterweights are installed from the top**, further reducing erection time, and in addition are **self-locking**, increasing safety and avoiding movements which affect crane stability.

The **hoisting cable terminates at the jib end**, improving the assembly conditions compared to the earlier series and making them comparable to the successful LC2100 Series.



## NEW MECHANISMS

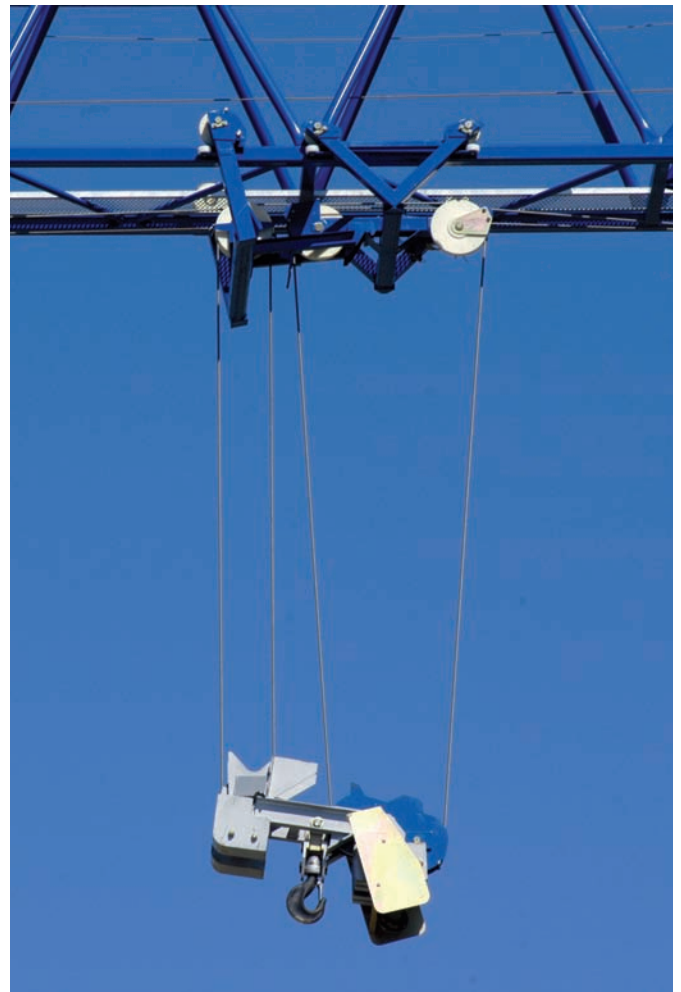
The six models of the LC1100 Series incorporate **two slewing motors**, which allow the stress of the crown wheel to be distributed and reduced, and make for greater stability in windy conditions.

The LC1100 Series has a **single or single/double trolley system** with an innovative **automatic change** controlled by the operator from the cab, which allows the load diagram of all cranes to be improved. With this new system, the reevings can be changed in **less than one minute**, substantially improving the adaptability of the crane to different loads and thus increasing working efficiency.

All the models include a **new lifting mechanism**, with **more cable capacity** on the drum and, consequently, **higher under-hook heights**. In addition, there is an optional mechanism with 45 kW and 1,000 meters (3,280 ft) of cable, specially designed to work at high altitudes.

The cranes of the LC1100 Series have a **semi-automatic trolley cable tensioning system**.

LINDEN COMANSA cranes optionally offer the **“Lincomatic” digital load indication system**, enabling storage of the latest data and work in restricted areas. “Lincomatic” is compatible with the SMIE anticollision system for on-site installation.





## MAXIMUM MODULARITY

The LC1100 Series maintains the climbing system and the same tower sections as the other LINDEN COMANSA series, increasing **compatibility between cranes**.

The **jib sections are 2.5 meters (8.2 ft) long**, which increases the range and load combination possibilities. In addition, the range of the LC1100 Series is greater than that of earlier medium series LINDEN COMANSA cranes, with jib lengths of 60 to 65 meters (196.8 to 213.2 ft).

Also, the cranes of the LC1100 series, except for the two models of 11 LC 90, are sustained by **panel-structured tower sections**. This system's great advantage consists in **easier and less expensive transport**, as it allows to deliver the same height of tower sections, in a less number of containers or trucks.

The design and manufacturing quality of these panels assure the **perfect and effective transmission of forces and stresses**, and the materials used on its production are developed in accordance with the European steel quality standards.



## OTHER INNOVATIONS OF THE LC1100 SERIES

**New cab position:** at the optimum working height for the operator, providing a greater field of vision. In addition, the cab is situated on a wider, more comfortable platform, which facilitates access to the operator's position.

**Easier to transport:** the crane with the highest tonnage of the series, the 11 LC 160, in its highest self-stabilizing version (57.4 m./188.3 ft) and prepared for embedded mounting, fits in only five trucks.

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## GENERAL CHARACTERISTICS

The new LC1100 Series comprises cranes with **Flat-Top®** design with a **maximum jib range from 52.5 m to 65 m.** (from 172.2 to 213.2 ft.)

There are six models:

- 11 LC 90 5t
- 11 LC 90 6t
- 11 LC 132 5t
- 11 LC 132 6t
- 11 LC 150 8t
- 11 LC 160 8t

**New lifting mechanisms** with higher under-hook heights.

**Possibility of jib ranges every 2.5 m. (8.2 ft.)** Higher range of possibilities.

**Compact slewing platform design.** Slewing and hoisting mechanisms and electric cabinets preinstalled at the factory. Assembly and maintenance facilities.

**New trolley system in single or single/double reeving with automatic changeover.** Offers maximum load and speed performance at any jib length.

**Innovative semi-automatic trolley cable tensioning system.**



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