



LC3000 series

Flat-Top tower cranes with maximum loads from **32 to 90 tonnes**
(70,550 to 198,410 lb)

Innovative design for economic transport
Easy and fast assembly

LINDEN  **COMANSA**



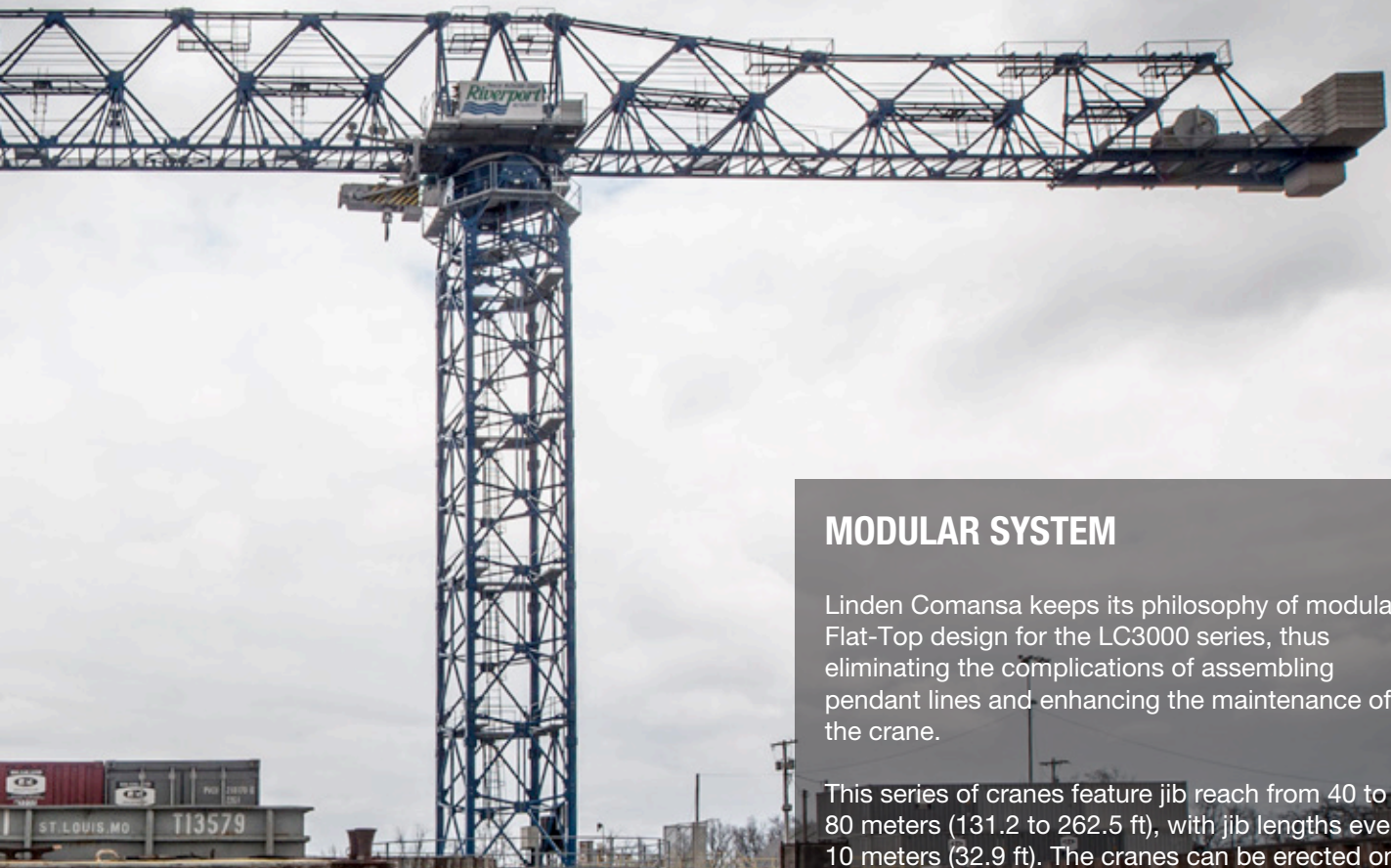
LC3000 series



The LC3000 family, primarily developed for public works, mining and heavy industry projects, has been designed to be manufactured in series and at competitive prices.

The series consists of two different models, 30 LC 1100 and 30 LC 1450, featuring three and four versions respectively:

Model	Max. load	Max. jib-length	Max. freestanding height		Jib-end load	
			with D56	with D56 + D66	Normal	with PowerLift
30 LC 1100 32 t	32,000 kg 70,550 lb	80 m 262.5 ft	88.8 m 291.3 ft	108.3 m 355.3 ft	11,000 kg 24,250 lb	12,100 kg 26,680 lb
30 LC 1100 48 t	48,000 kg 105,820 lb	80 m 262.5 ft	88.8 m 291.3 ft	108.3 m 355.3 ft	11,000 kg 24,250 lb	12,100 kg 26,680 lb
30 LC 1100 64 t	64,000 kg 141,090 lb	80 m 262.5 ft	88.8 m 291.3 ft	108.3 m 355.3 ft	9,500 kg 20,940 lb	10,450 kg 23,040 lb
30 LC 1450 32 t	32,000 kg 70,550 lb	80 m 262.5 ft	88.8 m 291.3 ft	102.8 m 337.3 ft	15,000 kg 33,070 lb	16,000 kg 35,270 lb
30 LC 1450 48 t	48,000 kg 105,820 lb	80 m 262.5 ft	88.8 m 291.3 ft	102.8 m 337.3 ft	15,000 kg 33,070 lb	16,000 kg 35,270 lb
30 LC 1450 64 t	64,000 kg 141,090 lb	80 m 262.5 ft	88.8 m 291.3 ft	102.8 m 337.3 ft	13,500 kg 29,769 lb	14,850 kg 32,740 lb
30 LC 1450 90 t	90,000 kg 198,410 lb	60 m 196.9 ft	82.8 m 271.7 ft	96.8 m 317.6 ft	24,000 kg 52,910 lb	26,400 kg 58,200 lb



MODULAR SYSTEM

Linden Comansa keeps its philosophy of modular Flat-Top design for the LC3000 series, thus eliminating the complications of assembling pendant lines and enhancing the maintenance of the crane.

This series of cranes feature jib reach from 40 to 80 meters (131.2 to 262.5 ft), with jib lengths every 10 meters (32.9 ft). The cranes can be erected on fixing angles or on a 10 meter wide base.

The freestanding height of these cranes is 82.8 to 88.8 m (271.7 to 291.3 ft), but with ties they can reach much greater heights, as an example 187.8 meters (616.1 ft) with only two anchors.

The tower sections from the LC3000 series can be combined with sections from other Linden Comansa cranes through transition sections, allowing cranes like the 21LC450 20t to reach freestanding heights up to 116.2 meters (381.1 ft).



NEXT-GENERATION MECHANISMS

The hoisting motor of the LC3000 series is one of the most powerful among the cranes of its class. Its 200 kW (272 hp) allow the cranes to work at high speeds, even with heavy loads. Its maximum speed is 259 meters per minute (426 ft/min), but it also offers ultra-slow speeds for optimum positioning of the loads.

The tower cranes from this series include PowerLift, a moment control and limiting method which improves the load diagram around 10% at reduced speeds. With PowerLift, the crane can move the nominal load shown in the diagram over greater distances. For example: the 30 LC 1100 32t, with 80m boom (262.5 ft), may suspend its maximum load (32 t – 70,550 lb) up to a jib length of 29.6 meters (97.1 ft). With PowerLift system, the crane can load those same 32,000 kilos up to a jib length of 31.5 meters (103.3 ft). And if this crane can load up to 11,000 kilos (24,250 lb) at the end of the jib,

with PowerLift system it is capable of loading up to 12,100 kilos (26,680 lb), 10 percent more.

The series also comes with a hoisting drum with capacity for 1,450 meters of rope (4,760 ft), allowing these cranes to work at maximum heights under hook from 725 meters (2,380 ft) of the 32 and 48 t versions in simple trolley, to 181 meters (595 ft) of the 64 and 90 t versions in double trolley. The change from single to double trolley is fast and fully automatic, allowing the crane to offer its maximum performance of load and speed in any range at all times.

The hoist, slewing and trolley movements have frequency control, which allows a greater smoothness in all functions and optimal efficiency of the crane, providing greater benefits with reduced power consumption.



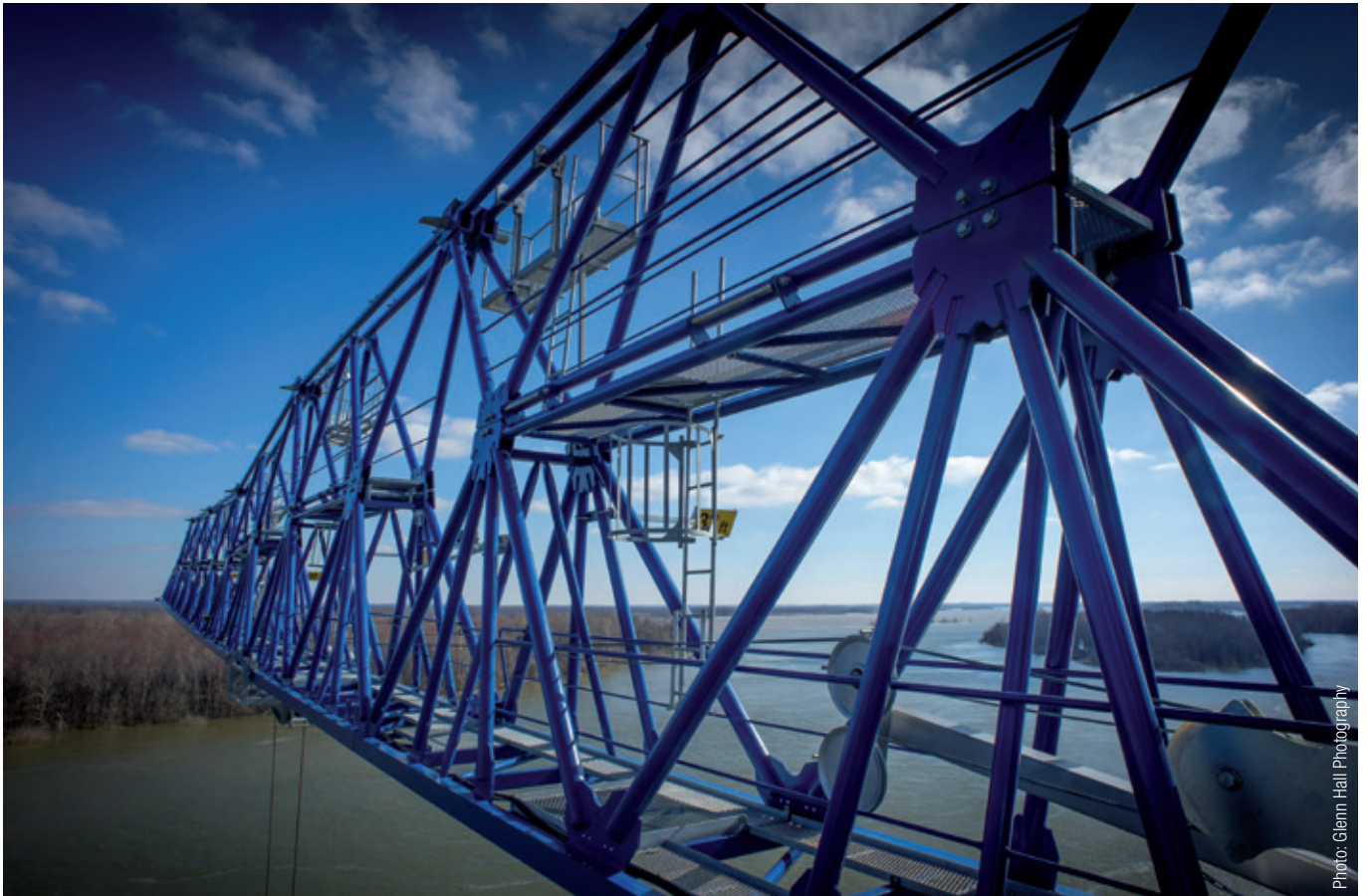


Photo: Glenn Hall Photography

INNOVATIVE DESIGN

Cranes of similar capacity that are currently on the market require large jib and tower sections, and are therefore difficult to assemble and transport. However, Linden Comansa has developed an innovative design which allows easy assembly and significant savings in transport.

The largest jib sections of the LC3000 series measure 6.2 meter-high and 10 meters in length (20.4 and 32.9 ft). However, thanks to a new design, the upper part of the jib can be easily folded, allowing sections to enter perfectly in an Open-Top container. As the other jib sections fit into normal HQ containers the complete crane can be transported using standard methods.

The D56 tower sections, created especially for this series, are 3.95-meter-wide and 5.5-meter-high (13 and 18 ft), and are another example of innovation by Linden Comansa's R&D department. These sections can be dismantled easily into four equal quadrants allowing transport of up to two D56 in a normal container. Along with this section a new J5-30 climbing assembly has been designed allowing safe and fast climbing.

In addition, another tower section has been developed to allow the LC3000 Series to achieve greater freestanding heights: the 5.4-meters-wide D66 section (17.8). This mast section consists of the same quadrants from the D56 section, plus an additional central body. In this way, a D56 can be easily transformed into a D66, and vice versa.



MAXIMUM CLIMBING STABILITY

The hydraulic system of the climbing cage of the LC3000 Series has been designed by Linden Comansa's R&D team to ensure a fast, stable and safe operation. Two hydraulic cylinders, with a push-up force of 300 tonnes (661.38 kip), and a double control system, both mechanical and electronic, ensure stability and balancing of the climbing sequence. Like all the cages from Linden Comansa, the hydraulic cage of the LC3000 Series does not need special climbing mast sections and can be pointed to any of the four sides of the tower, thus simplifying the assembly and disassembly of the crane.

SPECIAL APPLICATIONS AND CUSTOM STUDIES

Based on the standard models, Linden Comansa's R&D team also addresses increasingly more specific demands, designing developments for special applications like the use of conveyor belts which, moved by the crane, quickly distribute large amount of concrete on a very wide surface. Carried out studies for the LC3000 series include the design of a special jib with length of 90 meters (295.3 ft) and a crane with maximum load capacity of up to 125 tonnes (275,570 lb).



CAB AND DIGITAL INDICATORS

The Panoramic XL cab is included as standard in the LC3000 series. It offers maximum visibility of the work area and includes a seat with integrated controls and other ergonomic features that ensure the worker's comfort: Thermal and acoustic insulation, fire extinguisher, tinted windows, CD and MP3 player, etc.

The spacious Panoramic XL cab is the largest from Linden Comansa. It allows accessories such as a fridge and includes space for a microwave or any other small electrical household appliance.

All LC3000 cranes are equipped with the Lincomatic system of digital indicators as standard, offering the crane operator all information required to improve crane control and safety: span, hook height, overturning moment, maximum load, data log, etc.

This user-friendly and intuitive system is compatible with the Anti-Collision System and it also offers the possibility of including a Prohibited Area function. This option restricts jib and load access to areas previously programmed as "Prohibited areas", as well as gradually stopping the movement of the crane when it comes close to one of these areas.

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GENERAL FEATURES

2 models of large capacity Flat-Top cranes.

Versions with 32, 48, 64 and 90 tonnes of maximum load (70,550 - 105,820 - 141,090 - 198,410 lb)

Patented design that allows a fast and easy installation and economical transportation.

D56 and D66 mast sections compatible with other sections from Linden Comansa.

High speed hoist mechanisms.

PowerLift system, which improves the load diagram by 10%.

The large Panoramic XL cabin is standard.



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