

New LC1600 Series from Linden Comansa

The Spanish manufacturer launches 3 new models of modular Flat-top tower cranes this October

The new series places between the LC1100 and LC2100 families, and shares numerous elements with them



Linden Comansa keeps its high pace of work in the development of products and, a little time after presenting a new series of luffers, now launches a new series of Flat-Top tower cranes. The LC1600 will be commercialized in October and will be formed by models 16 LC 185, 16 LC 220 and 16 LC 260, which will come in different versions of maximum load.

The LC1600 series has been designed with Linden Comansa's fundamental premises in mind: modularity and easiness of both assembly and transport. Due to its load capacity, between 8 and 12 tons, the new series places between the LC1100 (5 to 8 tons) and LC2100 (12 to 48 tons) families. In addition, the LC1600 family unites the advantages of both series, with which shares numerous elements.

The development of this new series implies in addition the disappearance of two models of the series LC2100. The 21 LC 170 and 21 LC 210 cranes, with very similar characteristics to the new models as for jib length and load capacity, will stop being produced mainly due to the advantages applied in the LC1600 series, and to the even more competitive prices of the new models.



Basic data of the LC1600 series (metric and US system):

MODEL	VERSION (MAXIMUM LOAD)	MAX. JIB- LENGTH	JIB EN LOAD	MAX. FREESTANDING HEIGHT	HOIST MECHANISM	
					STANDARD	OPTIONAL
16 LC 185	8 tons 17,650 lbs.	65 m 213 ft.	1,950 kg 4,299 lbs.	65 m 213 ft.	24 kW 32 hp.	37 kW 50 hp.
	10 tons 22,040 lbs.	65 m 213 ft.	1,800 kg 3,968 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW 67 hp
	12 tons 26,450 lbs.	65 m 213 ft.	1,800 kg 3,968 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW - 65 kW 67 hp. - 87 hp.
16 LC 220	10 tons 22,040 lbs.	65 m 213 ft.	2,150 kg 4,740 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW 67 hp
	12 tons 26,450 lbs.	65 m 213 ft.	2,150 kg 4,740 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW - 65 kW 67 hp. - 87 hp.
16 LC 260	10 tons 22,040 lbs.	70 m 229.7 ft.	2,150 kg 4,740 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW 67 hp
	12 tons 26,450 lbs.	70 m 229.7 ft.	2,150 kg 4,740 lbs.	65 m 213 ft.	37 kW 50 hp.	50 kW - 65 kW 67 hp. - 87 hp.



The cranes of the LC1600 series share the jib sections and the counterweights with those of the LC1100. The interchangeability does not end there, since the counterjib of the LC1600, more compact, is compatible with the one from the LC1100 series, allowing to reduce the counterjib radius of this one. In addition, the trolley and hoist mechanisms and the trolley-hook joint of the cranes from the LC1100 series can be used in the cranes of the series LC1600 series, which supposes a great advantage for those clients who own cranes of both series.

With the LC2100 series, the new family shares the 2 meter wide tower sections, as well as the climbing cage and the 4.5 and 6 meter wide cross bases. With a transition section, the cranes of the LC1600 family can be erected on 2.5 meter wide tower sections, to obtain freestanding heights superior to 100 meters.

One of the design advantages of the series is that the cranes don't have apex element in strict sense. The first counterjib section is placed on the gyratory part and, once mounted, the first jib section joins in one end and the rest of the counterjib at the other. This beginning of counterjib, which also shelters the hoist mechanism, is more compact than the apex elements of both cranes that will not be produced anymore. Due to this, the transport speeds up and some unload maneuvers before the erection are avoided. This design, which saves costs in equipment and improves the labors of erection, is based on the 21 LC 750, the first Linden Comansa model without apex element.



The double trolley system of these cranes is similar to the one successfully used in the LC1100 and LC2100 series, though it has been adapted to maximum loads of 12 tons. The trolley-hook joint, with pre-installed reevings, comes in a frame to ease the assembly, transport and storage.



The hoist mechanisms include the *Effi-Plus* System, which improves up to 70% the speed of hoist and descend movements. With this system, the productivity during hoist operation is improved up to 27%, without any increase in power or electricity consumption.

The jib sections are narrow, and the tower sections can be dismantled in panels, which eases the transport of the crane. In addition, the elements of the LC1600 have been designed by light erection weights (the heaviest element is 6 tons), which allows a faster and safer assembly.

The cranes of the C1600 series are the first from Linden Comansa to include frequency control in the slewing movement. This system makes the most of the energy, and therefore, allows a minor consumption, keeping the same maneuverability and identical sensations for the crane operator. In addition, the smaller size and less warming of the engine, as well as the use of the same brake and weathervane that most of Linden Comansa's cranes, minimize possible maintenance problems and search of replacements.



Among the optional components of the LC 1600 series, stand out the Panoramic XL cab, bigger and with more comfort elements for the crane operator, and a Lebus drum for the 65 kW hoist mechanism, with capacity for more than 1,200 meters of wire.

Thank you very much. Best regards,

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