21 LC 750

Versions with maximum loads of **24, 36 or 48** tonnes
Modular **Flat-Top®** system
Up to **725 m** high with **80 m** reach

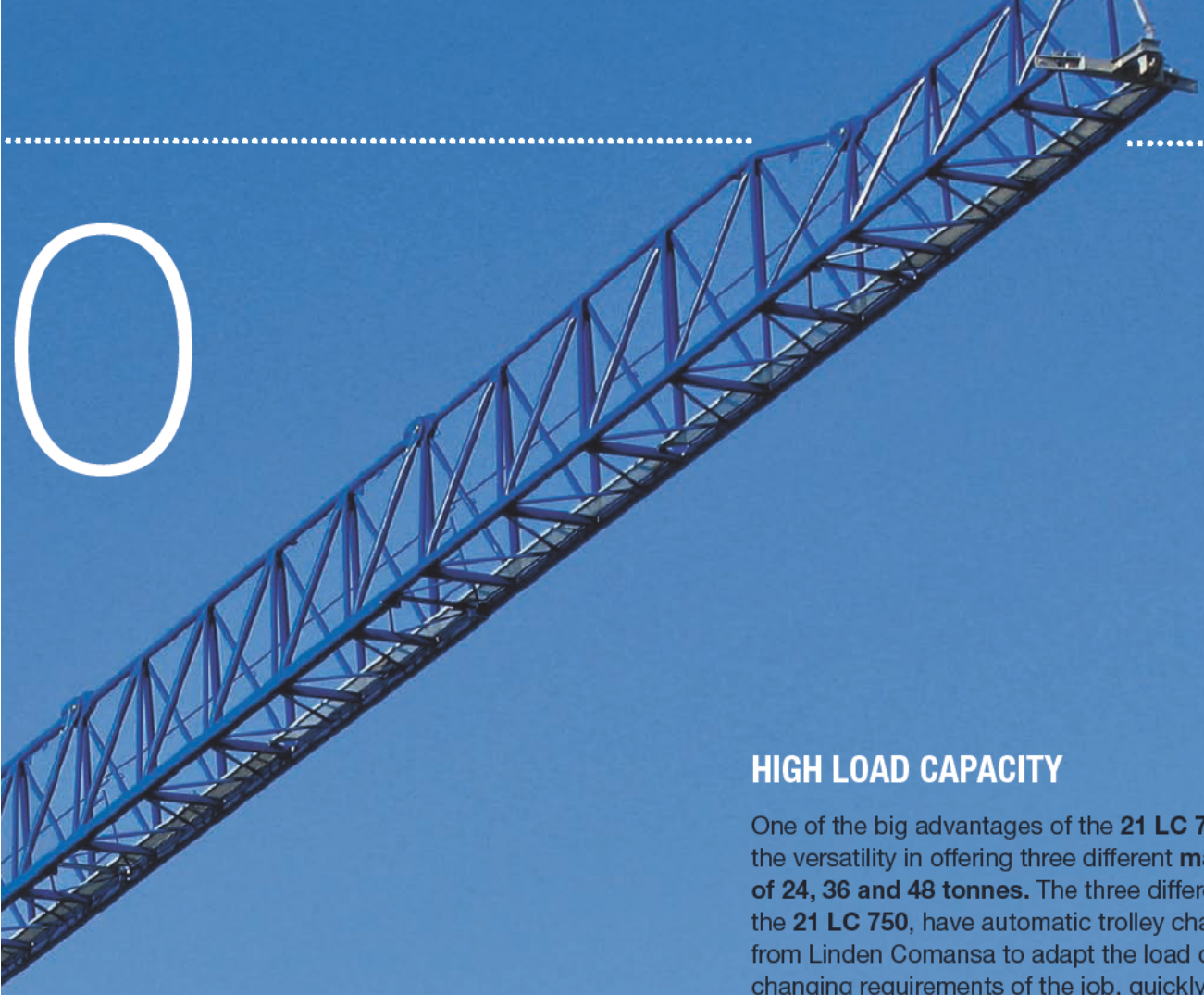
LINDEN COMANSA

21 LC 75

Model	Jib length	Free-standing height	Maximum load	Jib-end load	Hoisting power
21LC750 24 t	80 m (262 ft)	81,0 m (265 ft)	24000 kg (52,910 lb)	7000 kg (15,432 lb)	110 kW (147 hp)
21LC750 36 t	80 m (262 ft)	81,0 m (265 ft)	36000 kg (79,366 lb)	7000 kg (15,432 lb)	110 kW (147 hp)
21LC750 48 t	80 m (262 ft)	81,0 m (265 ft)	48000 kg (105,821 lb)	6500 kg (14,330 lb)	110 kW (147 hp)

Linden Comansa expands the successful LC2100 Series with a new crane named **21 LC 750,** which comes in 3 versions of maximum load: 24, 36 and 48 tonnes (52910, 79366 or 105821 lb).
This new **Flat-Top®** crane is particularly useful not only for residential construction but also for public works, industrial buildings, mining and infrastructure.

The **21 LC 750** is the result of many improvements made after revising the original Linden Comansa LC 8952, the last crane in the well known Linden 8000 series. The manufacturing process of the 21 LC 750 is now up to date, modern and cost efficient and the design is improved featuring many innovations and technological advances to meet the needs of the market.



HIGH LOAD CAPACITY

One of the big advantages of the **21 LC 750** crane is the versatility in offering three different **maximum loads of 24, 36 and 48 tonnes.** The three different versions of the **21 LC 750**, have automatic trolley change system from Linden Comansa to adapt the load capacity to the changing requirements of the job, quickly and easily. The maximum jib-end load of this crane, with 80 m reach (262 ft), is **7000 kg (15,432 lb)**, except for the 48 tonne version, which is 6500 kg (14330 lb).

The double-trolley system designed by **Linden Comansa** consists of one rear trolley/hook and one front trolley/hook. Both can work separately or together depending on the load requirements. Most of the loads tend to require only the use of the front trolley/hook, which due to its light weight provides an improved load chart at the jib end. In the event that larger loads need to be lifted, the option of using the double trolley system is always available as the trolley change is done automatically in a short time. This increases the crane adaptability as it can lift the very best load with corresponding speed, at whatever reach and time.

MODULAR CONCEPT

The modular **Flat-Top®** system implemented in the design of this crane reduces the amount of new components as most of the elements are compatible with those of the LC2100 cranes, as well as with those of the new LCL-500 luffing-jib crane.

The mast sections D36, the telescoping cage J8, the 10-metre folding cross base and the fixing angles are all the same components as those from the LCL-500 luffing-jib crane. Furthermore, most of the jib and counterjib sections of the 21 LC 750 are compatible and interchangeable with those used in the LC2100 crane family.

The strong 2,5 meter wide D36 mast section can be used also with smaller cranes from the LC2100 crane family, reaching greater free-standing heights. For example, by using D36 mast sections and a TD36A transition mast section, the 21 LC 290 crane can reach a height of over 90 meters (295 ft), a considerable improvement over the 64.9 meters (212 ft) of the standard version.

SAFER AND EASIER TO ERECT

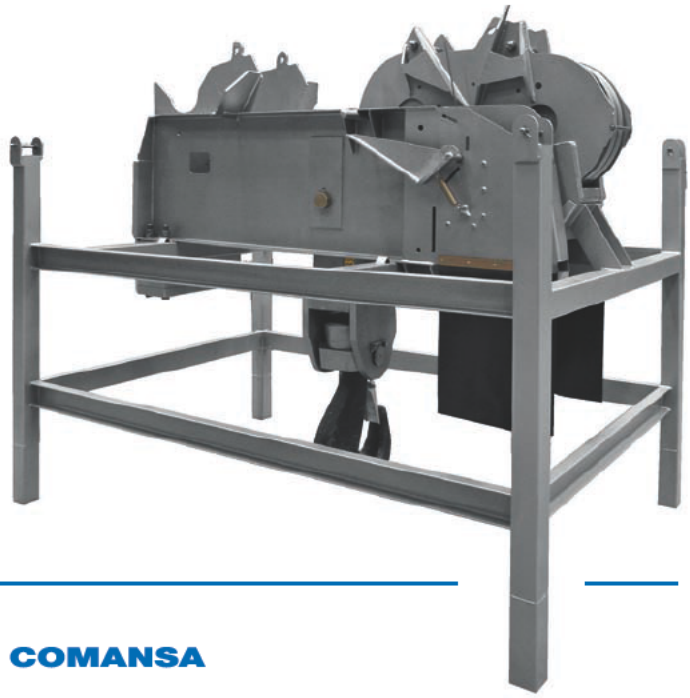
The **21 LC 750** has been designed by drawing up the experience gained over the years with the LC2100 series and other high-capacity cranes made by Linden Comansa.

What is entirely new in the design of this crane is that it has no more upper cat-head joining together the jib and counterjib. These two structures now are connected to each other directly on the slewing part using easy and fast connections. Removing the cat-head element, time and money is saved since less additional equipment is required.

Without the need to carry out a prior assembly on the ground, Linden Comansa's Flat-Top® system allows all parts to be erected on the crane directly as they come from the truck. As such, the 21 LC 750 can be installed with much lighter and more maneuverable erection weights, thus achieving simple, safe, quick and economical erection.

The trolley and hook system from the 21 LC 750 is sent out from factory placed in special baskets, which are designed to protect the parts during transportation and to facilitate their later erection. These new baskets keep the trolleys and hooks in place to pre-install the hoist rope reevings easily during assembly on the ground. After the dismantling of the crane, a guiding rope can be left in the reevings of trolleys and hooks for the customer's next installation.

For the assembly of platforms and railings, a new system of fast connections is used, which guide and support elements at their joints to make installation easier. Once the crane component is in position and is resting upon its own structure the final fastening element is inserted, thus achieving a much faster and simpler assembly operation.



NEW MECHANISMS

The main difference between the three versions of the **21 LC 750** is to be found in the trolley/hook unit. Each of the models features a special combination of trolley and hook, allowing achieving different maximum loads:

Version	Trolley		Hook		Maximum load
	Front	Rear	Front	Rear	
21LC750 24 t	Front A	Rear A	Front A	Rear A	24 t
21LC750 36 t		Rear B		Rear B	36 t
21LC750 48 t	Front B		Front B	Rear C	48 t

This system also allows great modularity between the three versions: the 24 t model can load 36 tonnes by changing the rear trolley/hook unit, and the 36 t one can take up to 48 tonnes by changing the front trolley/hook unit. Plus, if a single trolley and hook unit is preferred instead of having the double-trolley system, the possibility of having only one trolley hook of 12 t or 24 t (26455 lb or 52910 lb) is also available.

The three versions come with a 110 kW (147 hp) hoisting motor with frequency control variation. This system provides complete control of the load, and makes it easy to change progressively from fast to ultra-slow speeds in order to obtain maximum precision when positioning the load.

In addition, the hoisting winch features a Lebus drum which has been especially designed for Linden Comansa, with capacity for 1450 meters of cable (4757 ft). Thus, the 21 LC 750 can lift 48 tonnes up to over 180 m (590 ft), 36 tonnes up to 240 m (793 ft), 24 tonnes up to 360 m (1190 ft) and 12 tonnes up to 725 m (2378 ft).

TRANSPORTATION

The mast of the **21 LC 750** is made up of panel-structured sections with a width of just 2.5 meters (8 ft), making them easy to transport in trucks or containers, in which up to 22 m of mast can be fitted (72 ft). A 21 LC 750 with fixing angles, cage, maximum free-standing height, and maximum jib length, can be transported in **11 trucks and 4 flatbed trucks (or in 12 HC containers and 4 open-top ones).**

The slewing unit, with a **compact design,** allows to be transported on an open trailer or inside a container. To reduce the dimensions for transportation and to protect the slewing motors, they are dispatched stored inside the upper turntable. The installation of these motors is straightforward, using just 4 bolts, and without the need of electrical wiring manipulation.

21 LC 750

GENERAL CHARACTERISTICS

Three versions, with maximum loads of **24, 36 and 48 tonnes** tonnes (52,910 lb, 79,366 lb or 105,821 lb).

New double trolley system with **automatic change.**

Lebus hoisting drum with capacity for **1,450 metres of cable (4,757 ft).**

Modular **Flat-Top®**, system, compatible with the rest of the cranes in the **LC2100** series.

New slewing unit design, removing the upper cat-head element and speeding up erection.

Mast sections 2.5 m wide (8.2 ft), with panel structure and easy to transport.

Designed following the **EN 14439 European Safety Standard.**

LINDEN COMANSA

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