

Series LC 1000



10 LC 140

**LINDEN**  **COMANSA**



During the last 25 years, LINDEN-COMANSA has developed a complete range of Flat-Top cranes.

The first step, in the early 'eighties, was the acquisition, on an exclusive, worldwide basis, of the LINDEN 8000 Modular Series Crane technology, the first true "Flat-Top" offered to the construction industry.

This same programme led to the introduction, in the early 'nineties, with considerable success, of the LINDEN-COMANSA 1000 and 2000 series. With these machines, the LINDEN-COMANSA range of Flat-Top cranes became the largest and most highly developed in the world.

With the new 1000 series LINDEN-COMANSA now offers a range of four basic models, with new denominations, according to metre-tonne capacity.

MODEL	MAX. RADIUS	MAX. LOAD		MAX. JIB-END LOAD	
		ONE PART LINE SR	ONE/TWO PART LINE SR/DR	SR	DR
10LC90	55 m 180.4 ft.	3.000 kg 6,610 lbs.	6.000 kg 13,220 lbs.	1.300 kg 2,860 lbs.	1.200 kg 2,640 lbs.
10LC110	54 m 177.1 ft.	4.000 kg 8,820 lbs.	8.000 kg 17,630 lbs.	1.400 kg 3,080 lbs.	1.250 kg 2,750 lbs.
10LC130	54 m 177.1 ft.	4.000 kg 8,820 lbs.	8.000 kg 17,630 lbs.	1.600 kg 3,530 lbs.	1.450 kg 3,200 lbs.
10LC140	60 m 196.8 ft.	4.000 kg 8,820 lbs.	8.000 kg 17,630 lbs.	2.000 kg 4,410 lbs.	1.850 kg 4,080 lbs.



▼ PROFITABILITY OF A FLAT-TOP CRANE WITHOUT PENDANT LINES

▲ One of the many advantages of the LINDEN-COMANSA Flat-Top Cranes, and perhaps the most significant, is the fast and simple erection process, thanks to the absence of pendant lines on either the jib-or counter-jib.

It is also a well-known fact that alternating stresses create more fatigue on a given structure than simple stresses. On LINDEN-COMANSA 1000 SERIES CRANES, alternating stresses on the jib and counter-jib are practically eliminated.

Flat-Top cranes permit a shorter height variation between adjoining cranes on the same site. Unnecessary extra mast sections (and ties) are frequently eliminated, with the consequent reduction in capital, transport and erection costs.

▼ FOLDING CROSS-BASE AND MAST SECTIONS

▲ LINDEN-COMANSA CRANES CAN BE ERECTED ON VARIOUS BASE CONFIGURATIONS:

- on foundation fixing angles, OR
  - on folding, 3,8m (12.5 ft), 4,5m (14.6 ft). or 6m (19.7 ft). cross-bases, with multiple mast locations, and NO knee-braces, either fixed, on support plates or cones, or on straight or curved rail-travelling versions.
  - During transport, all these bases can be folded into a single bundle.
- Mast sections assembled with pins working in double-shear. No need for torquing or re-torquing traction bolts. The weight of the crane is transmitted through the corner-posts of the tower, not through the joining pins.



A 4.5 METER CROSS-BASE, UNFOLDED

SMALL MANUFACTURING TOLERANCES PERMIT THE WEIGHT OF THE CRANE TO REST ON THE CORNER ANGLES OF THE MAST RATHER THAN ON THE PINS, THUS ENSURING LONG LIFE AS WELL AS FAST AND SAFE ERECTION AND DISMANTLING OF THE MAST



## ▼ JIB-ERECTION

## ▼ HOISTING

▲ LINDEN-COMANSA cranes do not have a conventional cat-head, nor pendant lines, which means less complication and greater safety for the erector. When erecting the crane in restricted air or ground-space, the jib can be erected, in the air, in several pieces, one by one, straight off the back of the truck, instead of pre-assembling on the ground and then erecting in one piece. In this way, less space and time is taken and a smaller assist crane is needed.



The assembly of the jib itself is also much simpler, as the upper rail is joined to the next section with a single, hand-inserted pin.



▲ In addition to the standard, 3-speed hoist winches, the LINDEN-COMANSA 1000 Series cranes can, optionally, be equipped with 24 or 37 kW (32 or 50 hp), "EFU", frequency-control hoist winches, to give smooth and precise load positioning.

The LINDEN-COMANSA "EFU" hoist system has an "positioning mode" command, which, with a simple twist of the hoist control lever, selects a range of ultra-low speeds, to ensure high-precision load-placing.



EFUA-24-30 FREQUENCY-CONTROLLED WINCH



## CONCLUSIONS

- ▲ Simple storage and transport.
- ▲ Simple erection. Greater safety.  
Less erection time, smaller assist crane for shorter time.
- ▲ Sequential erection /dismantling of jib.
- ▲ “Flat-Top” design means less height differential necessary between adjoining cranes & thus less mast sections to cover a specific site.
- ▲ Longer fatigue life of the upper structure.



**COMANSA**

Construcciones Metálicas COMANSA S.A.

Polígono Industrial de Areta  
E-31620 HUARTE - PAMPLONA (SPAIN)  
Tel: 34 948 335 020 - Fax: 34 948 330 810  
e-mail: [export@comansa.com](mailto:export@comansa.com)  
[www.comansa.com](http://www.comansa.com)

