

PNEUMATIC TYRE ROLLER



Making our mark



THE MOST PROFITABLE OPTION



◆ Lebrero pneumatic tyre Roller.

Lebrero offers global solutions for road surface compacting. The new CNL 824 roller is the ideal machine to form part of the compacting train together with our VTA tandems.



With a standard weight, free of ballast, of 11 610 kg., it can reach a total weight of 23 760 kg. by loading sand, steel counter weights or metal plates in the compartments designed for that purpose.

This new equipment has a compact design, with a rigid structure and robust steering, and is easy to handle. The speed is controlled electronically, with three pre-selections of working speed, visibility of 1m x 1m (forward/reverse) around the machine, a low noise level, an ecological engine and a ROPS structure in the cabin.

◆ Compacting technique

Compacting is carried out by the kneading effect produced by the rolling of the pneumatic tyres at the optimum work pressure, depending on the material being used.

The use of the CNL 824 produces a micro-rugosity on the asphalt surface that improves its level of adherence. It can also be used in the first stages for stabilising and compacting.

The roller has 8 wheels with a load of 1 451 kg. per wheel up to 3 tons.

Working speed, forward and reverse, goes up to 20 km/h, with three gears:

- I From 0 to 5 km/h.
- II From 0 to 11 km/h.
- III From 0 to 20 km/h.

A modulated gearbox ensures very smooth speed changes.

◆ Brakes

The service brakes are controlled by a pedal, and act pneumatically on the rear wheels axle.

The parking and emergency brakes are disk brakes, negatively activated by an electro-pneumatic system.

The emergency brake is activated by a switch on the control panel.

◆ Isostatism

The front axle consists of two pairs of wheels, each pair of which has hydraulic cylinder suspension. The pair of hydraulic cylinders is connected to the isostatic function. The rear axle is rigid, with transmission by means of two gear trains and a self-blocking differential.

◆ Irrigation system

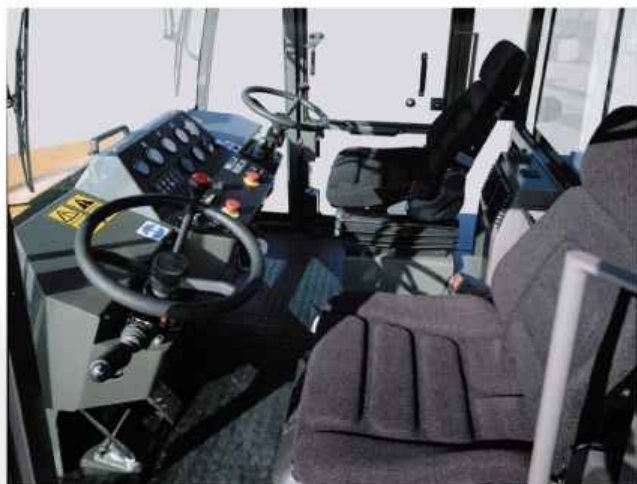
Each wheel has a set of sprinklers that cover the compacting surface area, thus preventing the material from adhering to the tyres.

The irrigation system is electrically controlled with 4 positions, which allow the driver to control the irrigation cycles with intermittence between 10 and 33 seconds. The water deposit, with capacity for 285 litres, is plastic and protected against corrosion.

The scrapers to clean the tyres are brushes that are activated by springs, and they guarantee that the surface that is in contact with the road is perfectly clean.

◆ Driving cabin

The operator's cabin has a double driving position, with adjustable seats (both weight and height), and safety belt. The cabin has good visibility, and complies with the 1m x 1m regulation. It is glass surrounded, with curtains to protect against the sun, rear view



mirrors and windscreen wipers back and front. The driver is able to work comfortably.

The control panel has the switches required for the operator to control the operation of the equipment at all times. It has an hour counter, control posts (two steering wheels and two gear levers), fuel indicator, battery accumulator, engine lubrication, front and back lights, wheel irrigation, brakes activation, light switches, windscreen wipers, brakes...

The operator's control panel has also the switches to inflate and deflate the tyres to adjust the degree of compacting that is required.

Like the rest of the LEBRERO range, this equipment complies with strict European safety regulations, and offers a high level of safety for the operator and other personnel, without affecting the comfort and design of the equipment.

◆ Quality

LEBRERO's entire manufacturing process is carried out in accordance with the procedures, standards and regulations established in our Quality Guarantee System, and is subject to strict quality controls. This system is certified by Lloyd's Register Quality Assurance in agreement with the UNE-EN - ISO 9001 Standard.

◆ Service

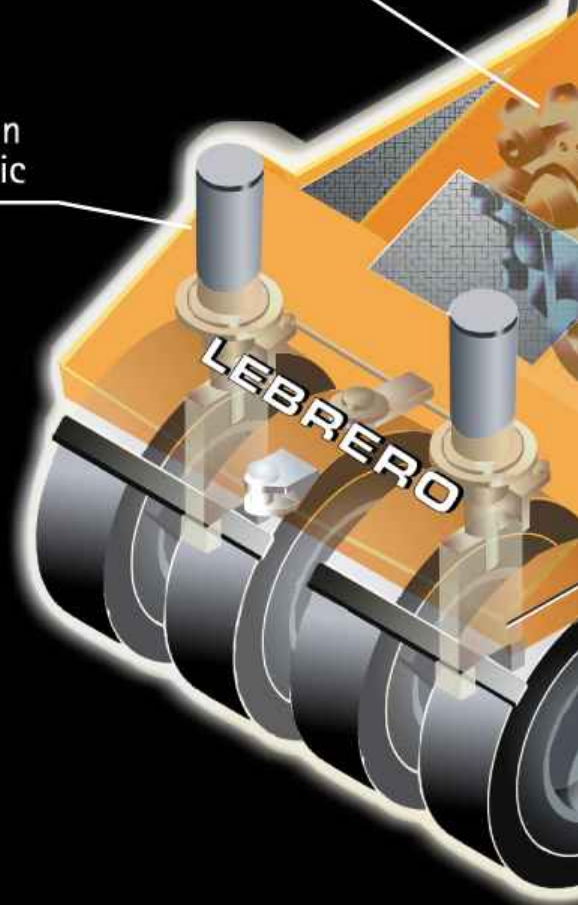
At LEBRERO, the human factor is essential throughout the manufacturing process and also after sales. Qualified professionals, with the latest technical equipment, guarantee an efficient Technical Assistance Service, so that LEBRERO machines keep rolling on.

With experience of over 45 years, LEBRERO has over 15,000 references in stock in its warehouses to guarantee service for all its machines, however old they may be.

Visibility
1 m x 1 m

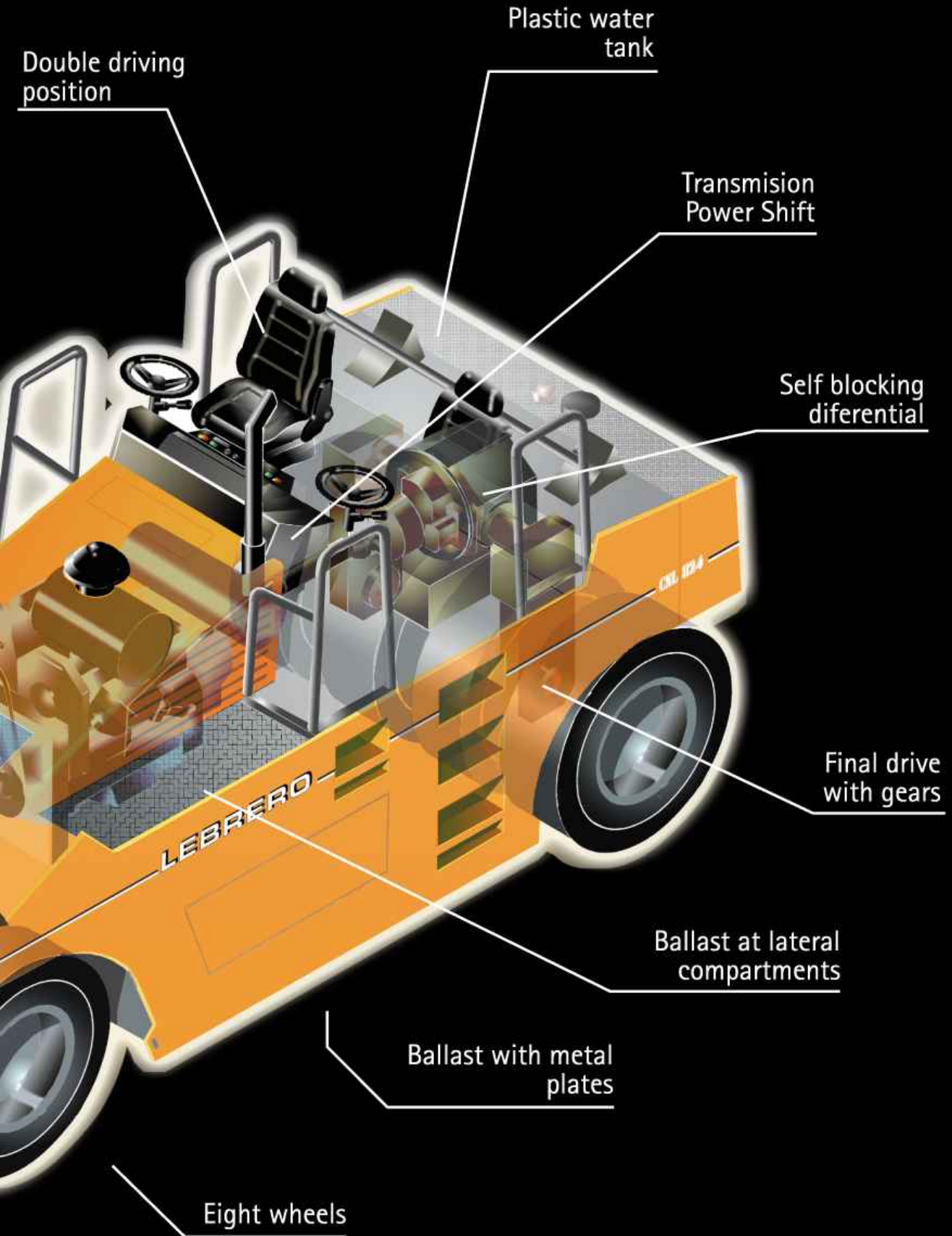
Cummins Engine
4BT3.9C de 105 CV,
water cooled

Front
suspension
hydrostatic



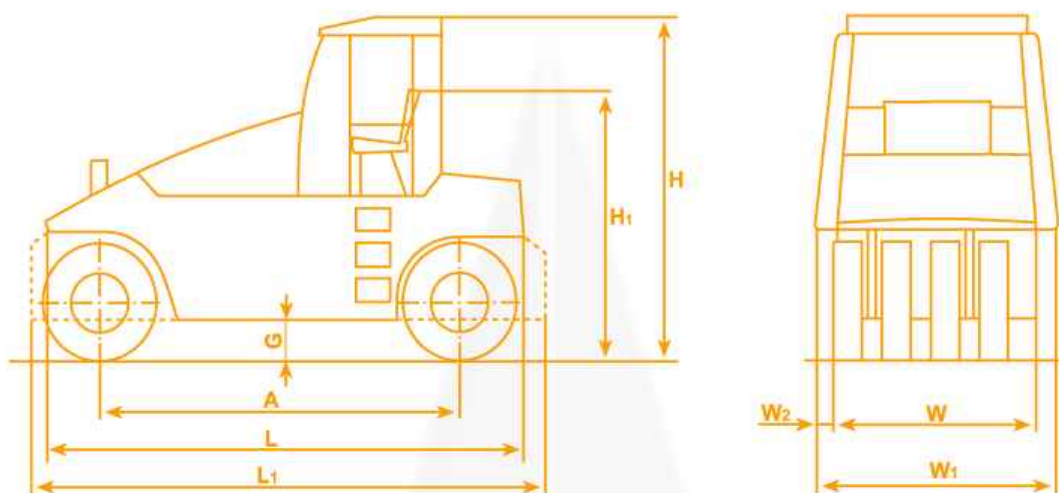
AN ADVANCED DESIGN

LEBRERO



TECHNICAL CHARACTERISTICS CNL 824

LEBRERO



DIMENSIONS

A	G	H	H1	L	*L1	W	W1	W2
3 500	300	3 040	2 990	4 775	5 440	1 986	2 265	33
(137,8 in)	(11,8 in)	(119,7 in)	(117,7 in)	(188,0 in)	(214,2 in)	(78,2 in)	(89,2 in)	(1,3 in)

*L1 = With heat isolation

Weights with the cab and the R.O.P.S.		TIRES	
Operating weight (CECE)	11 610 kg (25 596 lb)	Tires dimensions	11 x 20"
Operating weight maximal (CECE)	24 000 kg (52 911 lb)	Tires tread	18 PR
Ballast weight maximum	12 390 kg (27 315 lb)	Air pressure maximal	0,65 MPa (94,2 psi)
Wheel load minimal	1 451 kg (3 199 lb)	Number of wheels ahead	4
Wheel load maximal	3 000 kg (6 614 lb)	Number of wheels rear	4
DIMENSIONS (see sketch)		SPRINKLING	
Compacting width maximum	1 986 mm (78,2 in)	System	Pressure
STEERING		Nº. of pumps	1
Oscillating angle	5 deg	Filtration stages	2
Front wheel displacement maximal	200 mm (7,9 in)	CAPACITIES	
Turning radius minimal:		Fuel tank	250 l (66 gal)
- Inner (edge)	5 400 mm (212,6 in)	Sprinkling water tank	285 l (75,3 gal)
- outside (contour)	8 600 mm (338,6 in)	ELECTRICAL INSTALLATION	
RIDING CHARACTERISTICS		Voltage	12 V
Driven axles	1	Capacity of batteries	135 Ah
Number of gears	3	DIESEL ENGINE	
1. Travel speed	0 - 5 km/h (0 - 3,1 MPH)	Make	CUMMINS
2. Travel speed	0 - 11 km/h (0 - 6,8 MPH)	Type	4BT3.9C - 105
3. Travel speed	0 - 19 km/h (0-11,8 MPH)	Power rating	78 kW (105 HP)
Travel speed maximal	0 - 19 km/h (0 - 11,8 MPH)		
Theoretical gradeability	47%		
Lateral stability - straight	40%		
BRAKES			
Service	Shoe brakes		
Parking and emergency	Disc brakes		

CNL 824 Ballast combinations

Base Machine	Plates	Side sand	Side steel max	Total Operating weight
11 610 kg	-	-	-	11 610 kg
11 610 kg	4 500 kg	-	-	16 110 kg
11 610 kg	4 500 kg	4 000 kg	-	20 110 kg
11 610 kg	4 500 kg	-	7 890 kg	24 000 kg



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Dealer: