



OPERATING CONDITIONS LIMITS

Outside temp limits: Std. -15°C-+50°C (with optional grid heater: -25°C-+50°C) Maximum GCW: 1500 T @ 0% gradient

Maximum tractive effort: 65kN (based on 0.6 friction factor)

ENGINE

Caterpillar C4.4 ACERT

 ${\it 4\,cylinder\,,\,Turbocharged\ After cooled}$

Rated power: 99.5 kW (1 42 HP) at 2 200 rpm

Max. torque: 556 Nm at 1400 rpm

According to ISO 14396

TRANSMISSION

Hydrostatic Linde 2 speeds (low / high)

Full time 4x4

Rigid type Axles with double reduction

(differentials and wheel hubs)

Wheelbase: 3200 mm (Others on request)

MECHANICAL AXELS

Rigid type Axles with double reduction (differentials and wheel $\,$

hubs)

Wheelbase: 3200 mm Full time 4x4 Capacity: 10.000 KGs Tires: 385.65/22

CHASSIS

Articulated chassis that eases the manoeuvrability in reduced radius curves and switches and turno uts.

Easy adaptation to any kind of terrains (4WD machine)

Up to 43° negotiable gradient Access steps integrated in the chassis

RAILWAY BRAKE

Railway brakes for wagons according to UIC standards.

Suitable for 1 500 tons weight Service indicators in cabin

Control lever and emergency stop in cabin

High capacity compressor

Working pressure: Reservoir 8 bar / Brake Line 5 bar

Air dryer filter to protect from corrosion, cavitation and freezing.

Brake houses in front and back of the vehicle

ROAD BRAKES

Service brakes: Hydraulic. Oil immersed discs in 4 tires. Parking brake: negative brake: when the engine is stopped the parking brake is activated automatically. To desactivate it is necessary to start the engine and activate the lever on the cockpit.

PERFORMANCE ON ROAD

Gradient: >45% (dep. ground adherence)

Max. speed: 25 km/h

FUEL TANK

Capacity 150 I. Mounted in chassis.

ELECTRICAL SYSTEM

Alternator: 95 Ah / 14V
Batteries: 1 x 12 Volt / 110 Ah
Fuses and relays easy accessible

LIGHTING

Railway system lighting with automatic change for forward and reverse circulation

Warning signals (Turning lights, reverse circulation)

AUTOMATIC COUPLER RK 900 AT REAR (option)

With buffer device and draw hook at front and rear For rail vehicles with hook/screw coupli ng as per UIC

Integrated swivelling device

Automatic coupling/uncoupling from cabin Manual coupling release in emergency cases

BUFFERS

4 buffers (2 front – 2 rear) as per UIC



ROTATING COCKPIT

LACERTIS LOKO is equipped with 180° rotating seat that allows driving in all positions increasing visibility and thus safety.







Frontal driving

TV Cameras and monitor

Backwards driving

CABIN & INSTRUMENTS

Closed cabin, 1 seat.

Steel made, with tubular structure

FOPS - ROPS Homologation

Access from both sides of the vehicle (two doors)

Heating and air conditioning (optional)

Driver seat with suspension and seat belt

Rear view mirrors

Windshield wipers

Electrical sockets

Service indicators: Hydraulic oil temp., parking brake, battery level, headlights ind icator.

Other indicators:

- Pressure indicator of general air tank
- Brake reservoir pressure indicator.
- Indicator of hours of use.
- Tachometer
- Pressure indicator of the brake rail car and the pusher.
- Indicator of direction.
- Battery charge indica tor.
- Switch (type on / off) for wiper windshield.
- LED parking brake activated.
- Switch (type pressed / released) for wiper windshield.
- Switch (supported types / released) for the headlights.
- Switch (type on / off) for indoor lighting.
- Switch (type pressed / released) for the parking brake.
- Positioning the wheels rail / road.
- Heater

TV CAMERAS AND MONITOR (OPTIONAL)

- 3 cameras
- 1 TV monitor

Two (2) cameras positioned in front and back railway system that helps the driver during tracking on rail operation. The driver can see in the same monitor the images of both cameras.

An additional camera to drive backwards is positioned at the rear of the vehicle. The driver can see in the same monitor the images of the three cameras at the same time. These cameras can be used on driving mode to help the driver to increase the visibility.

REMOTE CONTROL (OPTIONAL)

- On/off
- Accelerator
- Brake
- Emergency stop
- Forward driving
- Backwards driving

FURTHER OPTIONS

- Search lights for illuminating working area
- Radio + CD Player
- Air connections front and rear
- Wide track gauge 1524 or 1668 mm.
- Coupling system other than UIC
- Drawbar for shunting operation
- Retractable shunting mirrors
- Add-on hydraulics
- Snow plough/brush
- Generator
- Additional air tanks
- Pneumatic and electrical tools on demand
- Special bodybuilding











