

CAMELEON® HI-RAIL ROAD/RAIL MULTITASK VEHICLE



*Innovative and
unique cleaning
system for faster
and safer rail
maintenance*

**NJPA AWARDED
CONTRACT**

Contract # 080114-RPM

**RPM
TECH**



CAMELEON®

Maximum efficiency and less downtime in a safer environment!

With many years of experience in the public works sector, the Cameleon® has proven itself for its versatility, performance and efficiency by being a year round track to articulated wheeled unit.

Today, the Cameleon® hi-rail unit, which was introduced to the rail market a few years ago, represents a new generation of compact vehicles.

Advanced engineering goes deep into the Cameleon® hi-rail. The operator's platform was designed to enhance comfort and productivity. In addition to the hi-rail system, the platform allows full visibility on both sides and the air ride seat provides full operator comfort.

Its basic purpose is to remove ice, sand and snow located between the rail and the guard rail on crossings. The unit can also carry a variety of attachments such as snow blowers with optional telescopic truck loading chute, V-plows, angle plows, de-icing systems, anti-icing fluid reservoirs, sweepers, boom flails, etc.

This multipurpose vehicle can also be applied in your parking areas and yards, roads, loading docks and so on.



An anti-icing fluid reservoir is available with spraying nozzles located for the customer needs.



In the spring time, the Cameleon® can be converted to a 4 wheel drive articulated tractor to provide spring and summer applications such as lawn mowing, sweeping, ditch mowing and so forth.

The Cameleon® can also adapt skid steer attachments. With the 97 kW (130 hp) engine and traction second to none, the vehicle may be applied for shunting purposes as well.



The articulated rail cleaning system is to be used for rail maintenance tasks such as:

- Two (2) high speed steel brushes to remove ice, sand and snow located between the rail and the guard rail on crossings.
- One (1) 1829 mm (72 in.) wide polyurethane/steel brush to sweep off snow and debris around switches and rails and to perform final cleaning after snow and ice removal operations.



Unit may be manufactured according to rail gauge dimensions.



Specifications

Engine

Make/Model	Caterpillar C4.4	Fuel	Fuel filter with water separator
Type	Turbocharged Diesel Tier 3, Tier 4 Flex	Air cleaner	Dry-type, with vacuum condition indicator
Power	97 kW (130 hp) @ 2200 rpm	Fuel tank capacity	135 L (35 gal.)
Torque	516 N·m (380 ft·lb) @ 1400 rpm	Exhaust	Residential type muffler
Pre-heater	Glow plugs in the intake	Safety	Automatic engine shut down

Electrical System

Alternator	120 A with voltage controller integrated	General data	<ul style="list-style-type: none"> • Headlights protection • Front and rear electrical plug for accessories • Flexible beacon mounted on stainless steel support • Front and rear turn signal and indicator lights • Roof mounted low profile lightbar
Cold cranking	Start at 1125 CCA		
Block heater	Included		
Lighting	<ul style="list-style-type: none"> • Four (4) halogen headlights • Two (2) rear halogen lights • Four (4) strobe type flashers amber LED 		

Transmission

Make/Model	Sauer Danfoss Hydrostatic transmission	Maximum speed	15 km/h (9 mph)
Power take-off	1 3/8 in., 6-spline shaft, 540 rpm, 68 kW (90 hp)		

Dimensions

Overall width	1855 mm (73 in.)	Total weight	3765 kg (8300 lb)
Wheel base	In hi-rail mode: 3480 mm (137 in.)		including hi-rail system and cleaning attachment

Chassis

- Steel chassis welded and bolted
- Push frame with manual coupler ready to receive front attachment includes:
 - Two (2) cylinders for hydraulics lifting
 - Rear hitch towing capacity of 2722 kg (6000 lbs)

Operator Comfort

- AM/FM radio / CD player and Ipod stereo, two (2) rear speakers
- Noise level not to exceed 69 dBA at normal operating speed (2100 rpm)
- Air ride adjustable seat and armrest
- Cargo net, cup holder and coat hanger
- 12 V power outlet
- Heater of 34000 BTU and air conditioning of 23000 BTU with directional outlets
- Intake air filtered (10 microns) and pressurized cabin
- Tilt (30 degrees) and telescopic 40 mm (1.57 in.) steering column
- DOT approved tinted tempered safety glass
- Left and right side sliding windows
- Two (2) rear view mirrors inside the cabin
- Dome light

Warning Lights and Buzzers

- Low engine oil pressure
- Battery charging system
- Hydraulic filter condition
- Low hydraulic level
- High hydraulic temperature
- High engine coolant temperature
- Low engine coolant level
- High engine air intake temperature
- Error code for engine

Complete Dashboard

- Temperature indicator for coolant
- Speedometer
- Fuel gauge
- Hour meter
- Indicator lamp for parking brakes
- Indicator lamp for headlights
- Tachometer
- Low fuel level warning light

Standard Equipment

- One (1) front intermittent pantograph wiper, outside windshield washer tank of 3.75 L (1 gal.) capacity, one (1) rear wiper
- Aluminum cabin mounted on air ride suspension and shock absorbers
- Fiber glass engine cover
- Adjustable 50 mm (2 in.) joystick with armrest
- Steering: independent control of each track through a microprocessor via the steering wheel
- Horn located on light switch arm
- Rear water line for front water exit (front broom)
- Floating position

Safety

- Cabin is certified ROPS and FOPS
- Three (3) tie point security belt
- Service brakes through hydrostatic transmission
- Emergency stop switch
- Pinch point, danger and caution decals
- Back up alarm

Warranty

- Vehicle: One (1) year / 1500 hours (parts and labour) starting on delivery date
- Engine: Two (2) years / 3000 hours

Comfortable and ergonomic cabin



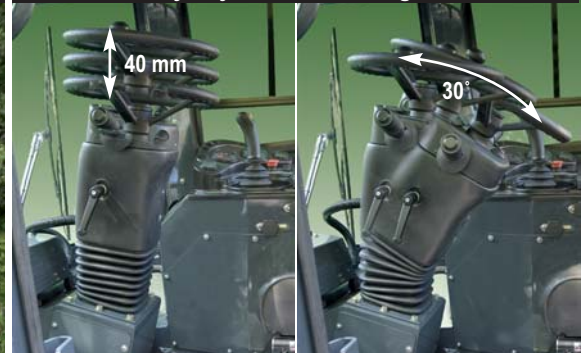
Operator's command center

- ◆ Information center: centralized analog display and warning lights
- ◆ Centralized switch panel
- ◆ Adjustable joystick controls: electric and pilot operated controls for easy and comfortable operations

Tilt over cabin and tilt over hood for easy maintenance



Two-way adjustable steering column



OTHER RAIL MAINTENANCE EQUIPMENT



AF1 Cold Air Blower



RSRS Rapid Snow Removal System



LM220 Detachable Snow Blower Mounted on a Ballast Regulator

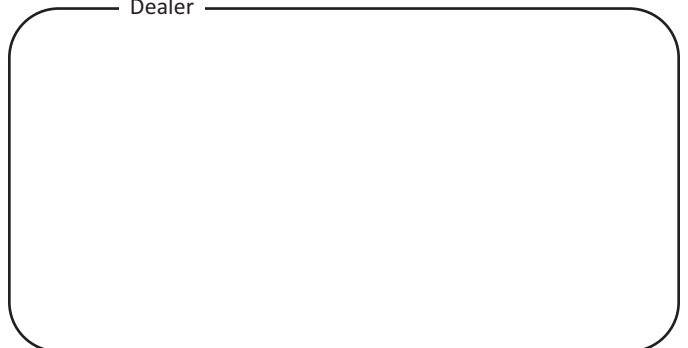
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 Canadian patent #2,660,090. US patent #7,886,852 B2. European patent #EP 2 057 051 B1.
 US patent #US 8,074,751 B2. European patent #EP 2 057 059 B1.
 © Canadian industrial design #122482. USA design patent #D571378.
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