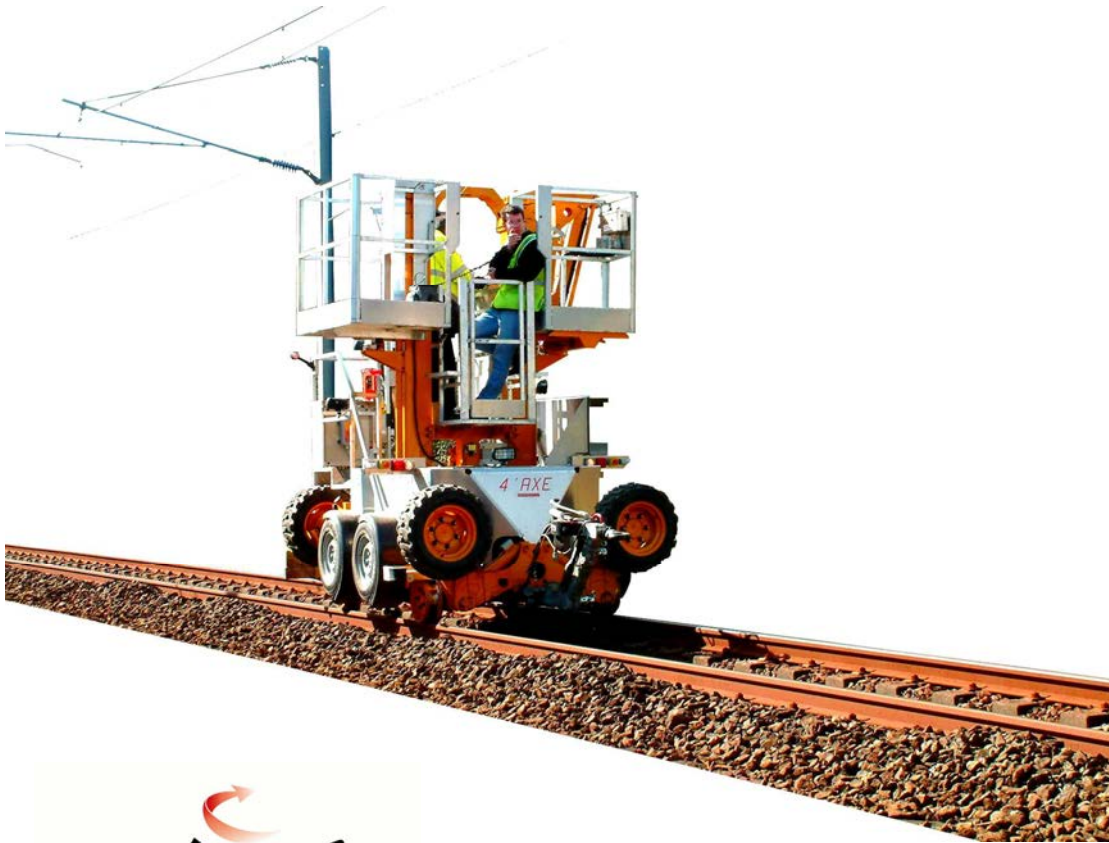




**CATENARY SERVICING  
RAIL / ROAD AERIAL PLATFORM  
4'AXE**



Approved

Special Equipments Department - [des@france-eleveur.eu](mailto:des@france-eleveur.eu)

**TECHNICAL SPECIFICATION**

## DESCRIPTION

### ROAD TRAILING



#### Approved road trailer

- Axles equipped with weight transfer device allowing obtaining a load and a braking distributed and balanced.
- Adjustable drawbar 3 500 Kg: approved and equipped with an inertia brake and a handbrake.
- Easily adjustable for several heights of towing vehicles. Pintle eye equipped.
- "jockey" wheel and galvanized drawbar equipped.
- EC / 94 / 20 Approved
- Maximum Towing speed: 90 kph

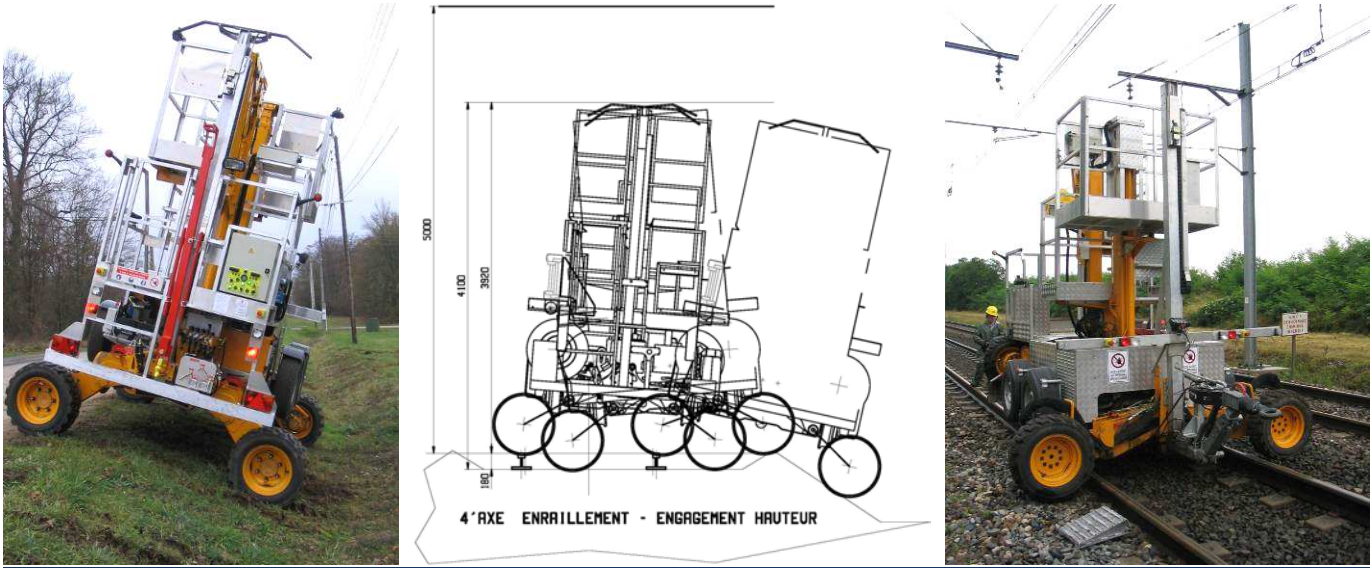
#### Characteristics:

##### Overall dimensions

▪ Length : .....	4,75 to 4,85 m with drawbar
▪ Width : .....	2,25 m
▪ Height : .....	3,7 m
▪ Gross weight : .....	3 450 kg



## ON / OFF TRACKING



- On / Off-tracking arms equipped with hydraulics motor wheels.
- Each wheel equipped with rim and tires 27/10,5-15".
- Steering is like « Bobcat » system, with an independent operating device for each side.
- Only one person for On / Off operations by radio-control.
- Max Gradient ..... 70 %
- Max Speed..... 5 km/h
- Max.Slope ..... 70 %
- Radio-control emergency backup by wire (5m length) equipped with quick plugs.
- Mechanical device forbidding access on adjacent track
- During on/off tracking, no element will exceed 4,28 m height

## RAILWAYS ROUTING

**Complies with NF F 58 003 and SNCF loading gauge**

*4'AXE can circulate under live catenary 1500 / 25000 Voltage  
4'AXE can carry 3 persons and Flooring height stay under 1,6 m / rails*

### **Performances: ( for each way of driving)**

- Max speed from flooring : ..... 27-29 Kph
- Min speed on 40 ‰ slope : ..... 5 Kph
- Max speed from aerial platforms : ..... 10 km/h
- Max speed with jib actuated : ..... 0 km/h
- Max slope : ..... 40 ‰
- Max crossfall between rails ..... 180 mm





**Circulation on railways - Brakes:**

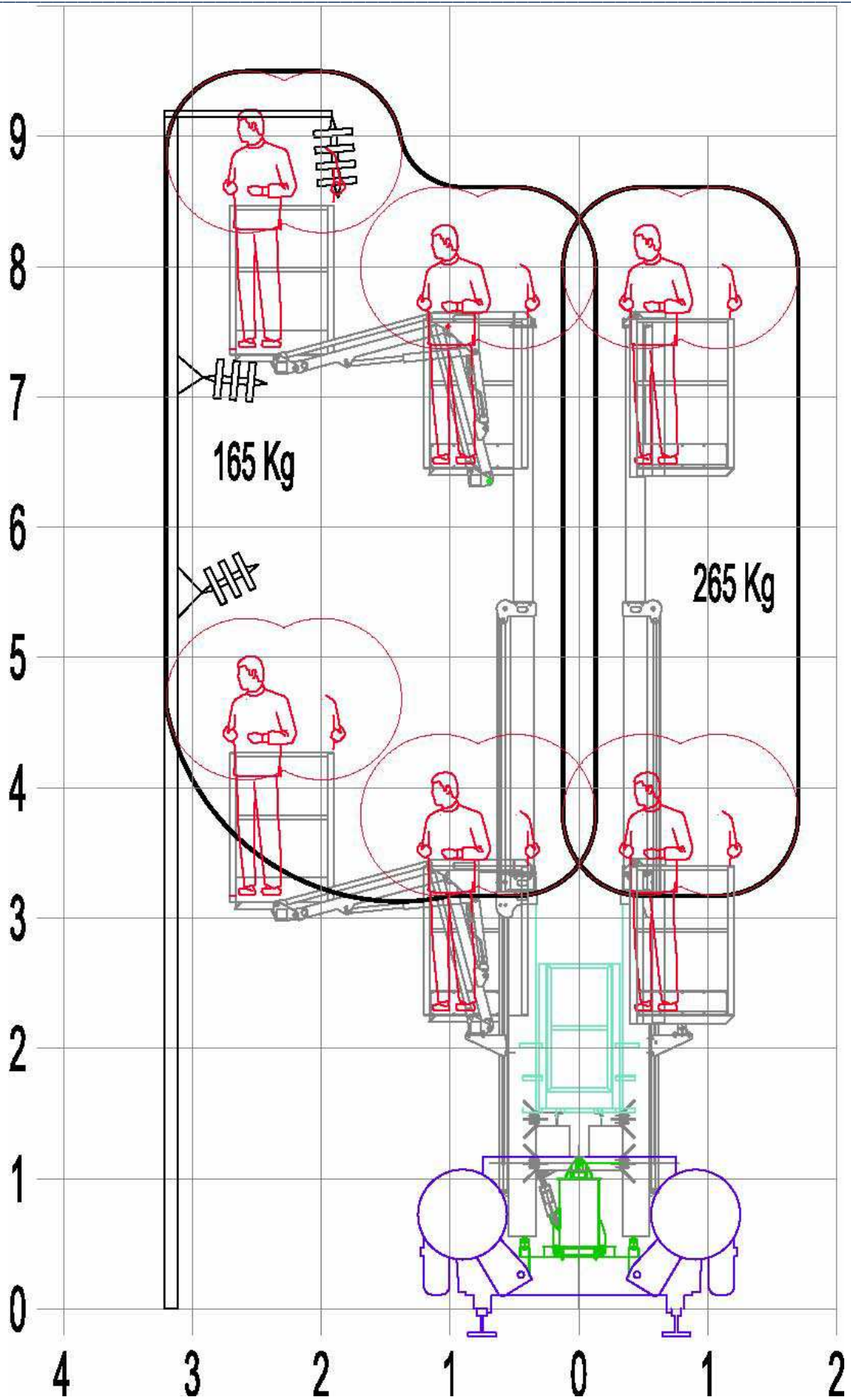
- Non insulated rail wheels.
- Hydraulics brake motors POCLAIN.
- Fail safe braking system for park position
- Hydrostatic dynamic braking
- Standard wheels profile :..... UIC 510-2 annexe 4
- Diameter : ..... 365 mm
- Progressive acceleration and braking

**AERIAL PLATFORMS**

Composed of two independent hydraulic telescopic booms

- Telescopic booms: 1 fixed and 2 sliding element actuated by hydraulic cylinder and chains.
- 1490 x 800 mm Aluminium basket 2 persons or 265 kg with access by centre of 4'AXE
- 600 x 825 mm Aluminium basket 1 persons or 165 kg (120 kg for model TWO) with access by centre of 4'AXE
- 650 mm gap between booms
- Screw pole connection in each basket







## SAFETY DEVICES

- Hydraulic shunt connection to disengage track in case of breakdown.
- Tow bar
- Hydraulic hand pump.
- Overloading security.
- Side of work chosen by selector to allow jib actuation.
- Electro-hydraulic emergency powerpack.
- Jib mechanical locking system.
- Anemometer controlling maximum wind speed allowed at 60 kph.

## ENERGY UNITS

### Engine

Diesel 4 Cylinders  
Water cooling  
26 KW / 35.2CH  
Certifications : EPA TIER 2 - 97/ 68/ CE

### Hydraulic

Transmission: closed circuit with load sensing pump.  
Equipement : Fixed flow pump.  
Oil tank equipped.  
Air / oil cooler.  
Oil type : HV46

### Autonomy

On rail 12 hours  
(Calculated at 40 % of max power)

### Electricity

24V (2 batteries)



## WORKING EQUIPMENT

- Background lighting on control panels.
- Spotlights for on/off tracking area.
- Headlights for displacement on tracks
- Panel control protections.

## OPTIONAL SIDE WORK SELECTION

- Telescopic booms mounted on hydraulic actuated pivot allowing vertical position in case of crossfall (balancing 2,5° each side)
- 2x90° Rotating sub frame for side work selection

## OPTIONAL WORKING ON 4x4

- Possibility to use booms on 4x4 position, not necessary to be on rail

## OPTIONAL 3.3 m OUTREACH

- Longer jib to reach 3.8 m working outreach (3.3 m from track centre to platform edge)
- Single platform maximum load 120 kg against 165 kg

## OPTIONAL EQUIPOTENTIAL ARM

- Telescopic equipotential arm hydraulically actuated fitted with copper slider bow.
- Automatic level adjustment from 4400 to 6500 mm / rail.
- 35 mm<sup>2</sup> section copper cable connection slider bow to rail.
- Horizontal measurement ruler on slider bow **optional**
- Vertical measurement rules for catenary height **optional**

## OPTIONAL EQUIPMENTS

- 1 aluminium storage box.
- Red and White lighting automatically indexed with displacement direction on rail.
- 230V / 2,2KW generating set.
- 1 x 220 Vac/16A plug with 30 mA differential protection in each basket.
- 1 x 24 Vcc directional Spotlight in each basket.
- 2 x shunt-slider.