

The GEISMAR logo is located in the top left corner. It consists of the word "GEISMAR" in a bold, blue, sans-serif font, enclosed within a white oval with a blue border and a slight 3D effect.

# Mechanization in railways electrification to ensure speed, safety & economy

October 2016

The GEISMAR INDIA logo is located in the bottom right corner. It features the word "GEISMAR" in a bold, white, sans-serif font inside a white oval with a blue border. Below the oval, the word "INDIA" is written in a smaller, white, sans-serif font. A thin white horizontal line is positioned below the word "INDIA".

- To meet the demand of modern networks regarding the speed, safety, economy and pollution reducing, **Geismar** group have developed since a very long time, particular equipment adapted to these constraints.



- In a context where the working time reduces inexorably at the same time than progressively the number of traffic increases oblige us to think differently our approach of railway electrification works,
- Tree modes of catenary equipment are particularly adapted for the respect of the objectives, concerning electrification project for new lines, renewal or transforming existing lines

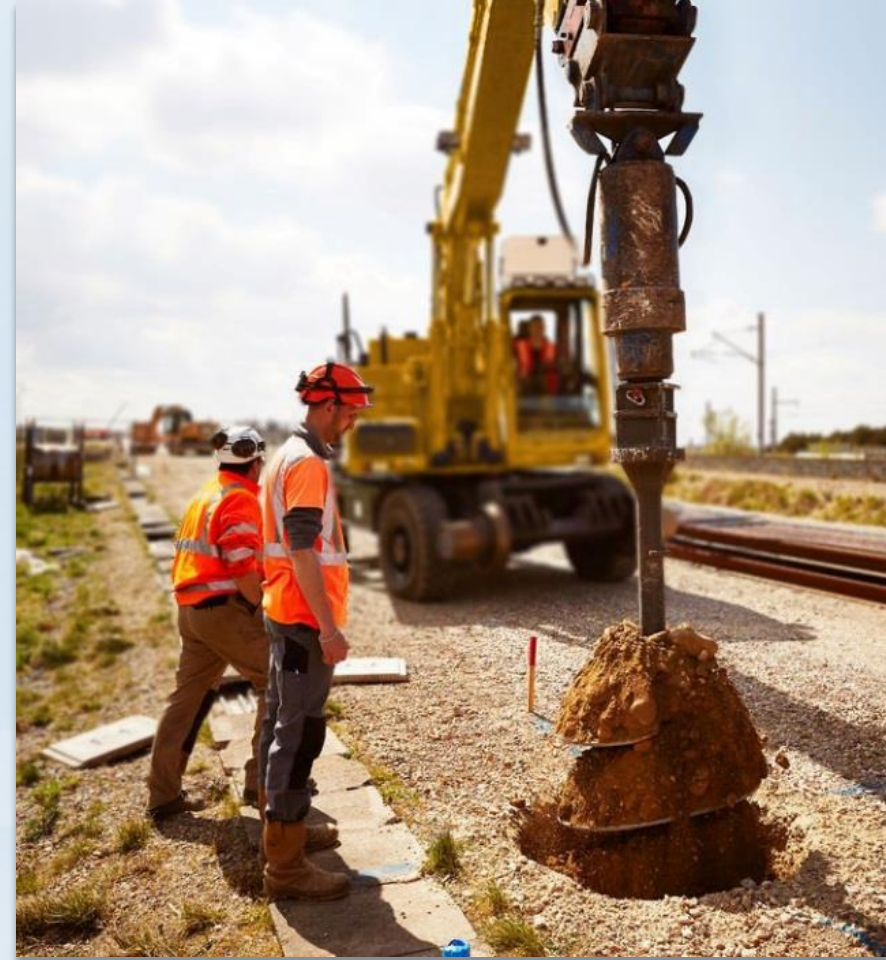


- From the civil engineering to the catenary parameters recording, all the catenary works can be done by rail road vehicle here after described;





- The KGT can ensure the drilling, digging, mast erection works from the embankments or on the rail.
- Those cranes are not classic as civil engineering cranes but chargers fully designed and dedicated for railways, capable to drill holes 3,5m deep at 7m from the track axis or hold a & ton poles at the same distance.
- Able to climb by itself on the rail in any conditions





# KGT

Powerful and versatile  
road-rail loader/excavator





- The **VCP** are light, compact and easily maneuverable equipment with noises and pollution limited. They are able to climb on the rail 1,10m high without any damage. Capable of a long-range of works on rail or out the rail.
- 3 people can work simultaneously on the **VCP**, one on the pole and cantilever and 2 on the catenary.
- Can be equipped with a lot of options as generating set, winch, tilting mast, 1 ton trailer, ramps, measuring system.





# VCP

Self-propelled OHL access units





- The **V2R** are road-rail trucks fully modular able to receive kit fixed by twist-locks as containers.
  
- On these kit can be installed platforms for 6 people. Elevating jib and cradle, crane, reels stands for 2 cables allow to wire at 1 ton in each, mast for the cables installation and setting and complete system for catenary parameters recording







# V2R-C

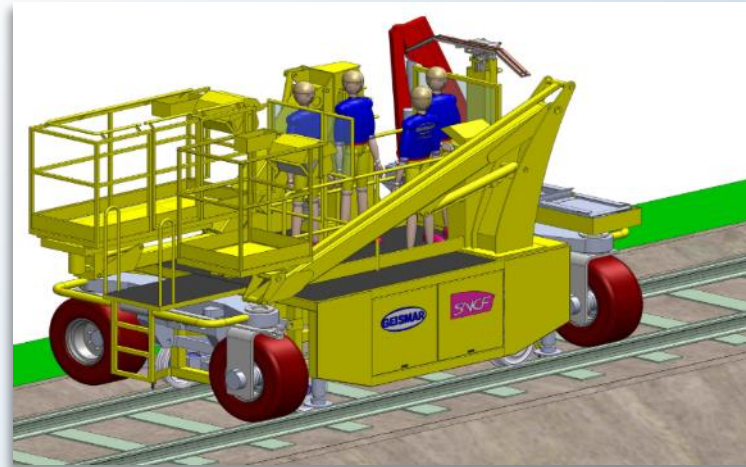
OHLE road-rail vehicles



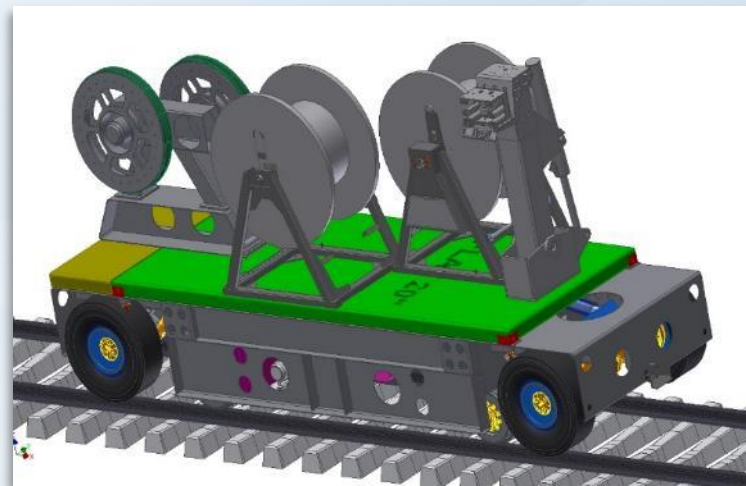
# V2R

Worksite road-rail vehicles





→ New VCP big capacity



→ New 20 feet holder

- Many manufactures are able to design wiring equipment but **Geismar** have made and provided a lot of dedicated equipment, to be installed on local wagons or self-propelled wagons allowing to unroll until 4 new wires and cables and rerolling simultaneously 4 old one.
- Of course our system unroll the wires and cables at the definitive tension but as our system increase the tension by friction of the cables on rubber grooves, the wires are stretched to remove any irregularities.





# ENR-DER

OHL rolling and unrolling wagons



- As like the fast link track installation, capable to change and renewal 1km of complete track, ballast, rail and sleepers included per night, the fast link OHL installations are complete and autonomous train.
- The fast link OHL installation under French and other European networks requirement allows continuously replacement of all the catenary structures and wires.

- These different types of fast links OHL installation can work separately or together.
- On each trains the components move and work fully independently on raceways fixed on the wagons. The numbers of wagons can increase or decrease according to the volume of work and component necessary to do the job;
- **Geismar** design and manufacture 3 types of fast links OHL installation:

## 1) FOR CIVIL ENGINEERING WORKS

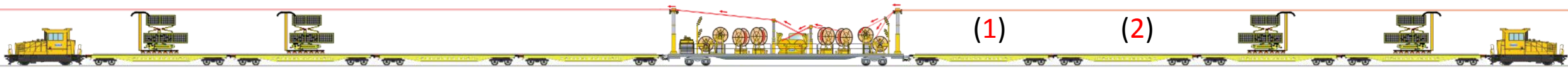


With this train you can break the upper part of the fondation arroud the old pole (1), you can vacum the wastes (2), you can drill 6 holes aroud the previous pole (3), you can install six threaded shaft and inject epoxy resin (4) .

If necessary reinforcement, a crane with an auger (5) and a micro-concrete plant is available on the same train (6)



### 3) FOR WIRING , REROLLING, DROPPERING AND ADJUSTMENT



With this train you can wire and reroll simultaneously (1) remove and install the cables, droppers and connecting parts and make adjustment (2).

- Light rail road equipment to access quickly to the work site as soon as the line is available.
- Reversible system for wire and unroll simultaneously cables
- Complete track links for OHL installation to reduce the number of equipment on the track.
- **Geismar** works to find with you fast, simple, economical and less polluting solutions, as you reduce strongly the number of equipment on the track.
- Thank you for your attention



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Thank you for your attention