

RANGE OF ROAD-RAIL VEHICLES FOR ALL TYPES OF RAILWAY WORK









> Road-rail vehicles, the ideal solution for fast and efficient operations

Allowing work equipment and personnel to be moved quickly and easily throughout the network, road-rail vehicles offer flexibility and versatility. Thanks to their road-going capabilities, they ensure swift action and move easily from one site to another, without having to change modes of transport. Their compact design combined with their compliance with railway standards make them the ideal tool for rapid and effective intervention, including in emergencies at any point on the track. Geismar road-rail vehicles are a sustainable and profitable investment, combining performance, safety and reliability. Adaptable to all types of worksite - whether construction, renovation or maintenance - our technology can be adapted to the demands of the terrain, even in the heart of urban areas.

> The advantages of the Geismar offer

Comprehensive expertise in railway operations

Solutions adapted to your needs and constraints

A perfect match to your network standards

Electric bi-mode technology for optimum working conditions







> Configurations to suit all your needs







The ranges of road-rail vehicles

	Reference	Designation	Track gauge	Mini radius
MAINTENANCE & INSPECTION RANGE	Universal Wizard V2R U-940C N-GR	Multipurpose road-rail vehicle with platform, crane and accessories	1,435 mm	80 m
	Multi Wizard V2R U-1040 PM			100 m
	Picker Wizard V2R U-940 GR	Road-rail vehicle for railway equipment handling	1,435 mm	80 m
	Flash Wizard V2R U-1040 W	Road-rail welding vehicle	1,435 mm	100 m
	Flash Wizard V2R U-1030 W	Road-rail welding vehicle	1,435 mm	100 m
	Flash Wizard V2R M-1030 W	Road-rail welding vehicle	1,000 mm	100 m
	Air Wizard V2R M-840C N-GR	Road-rail maintenance vehicle for metric gauge electrified lines	1,000 mm	40 m
	Air Wizard V2R U-840C N-GR	Bi-mode road-rail overhead contact line mainte- nance vehicle for urban networks	1,435 mm	20 m
	Air Wizard V2R U-840C PF	<i>Bi-mode road-rail overhead contact line mainte- nance vehicle for urban networks</i>	1,435 mm	20 m
	Clean Wizard V2R U-700N	Road-rail cleaning vehicle for urban networks	1,435 mm	20 m
	Runner Wizard V2R U-300	Lightweight utility road-rail vehicle	1,435 mm	80 m
custom range	Runner Wizard V2R U-530	Lightweight utility road-rail vehicle	1,435 mm	25 m
	Hydro Wizard V2R U-940 HY	Road-rail vehicle for cleaning hydraulic struc- tures and railway equipment	1,435 mm	80 m
	Spray Wizard V2R U-940 PL	Weed spraying control road-rail vehicle	1,435 mm	60 m
CUST	Wire Wizard V2R U-1040C EDR	Road-rail vehicle for catenary unwinding	1,435 mm	100 m
	Fire Wizard V2R U-830 LAI	Fire-fighting road-rail vehicle	1,435 mm	80 m





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MAINTENANCE & INSPECTION RANGE

The range of road-rail vehicles for the maintenance and inspection of railways and catenary benefits from proven expertise



MULTIPURPOSE ROAD-RAIL VEHICLE WITH PLATFORM, CRANE AND ACCESSORIES



On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 160 mm

- **The versatile railway solution** for all maintenance operations on electrified overhead lines
- A complete suite of high-performance equipment and work tools integrated into the vehicle for safe and efficient working in all conditions

SPECIFICATIONS

Working platform

3.00 x 1.50 m (4.5 m²)

Radio-controlled handling crane

Catenary maintenance tools

🚫 UIC 505-1 | EN 15746 | EN 280 | EN 15085 (on request)







// MAINTENANCE & INSPECTION RANGE



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HEAVY TOOL-CARRYING MODULAR ROAD-RAIL VEHICLE

On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 100 m | Maximum cant in work: 180 mm

- o The modular railway solution for using specific, high-performance tools, ideal for seasonal work
- o Numerous tools adaptable to your needs, with electrical and hydraulic connections

SPECIFICATIONS

Chassis and Twist-lock designed for 20-foot containers

Simple module exchange without lifting equipment

Module length

Maximum payload

6.10 m 15,000 kg More on rail upon request

🚫 UIC 505-1 | EN 15746 | EN 15085 (on request)





ROAD-RAIL VEHICLE FOR RAILWAY EQUIPMENT HANDLING



On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 180 mm

- The Picker Wizard V2R can handle a wide variety of equipment such as unwinding reels, a herbicide tank, a cradle, and so on
- The addition of a **tilting loading bucket and folding** side panels makes this a complete truck

SPECIFICATIONS

Basic ha	andling	crane
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Basic adaptable basket	1.35 x 0.65 m (0.88 m²)
Tilting loading bucket	6 x 2.30 m (13.8 m ²)





🚫 UIC 505-1 | EN 15746 | EN 280 | EN 15085 (on request)



DPICKER

MAINTENANCE & INSPECTION RANGE \\





ROAD-RAIL WELDING VEHICLE



On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 100 m | Maximum cant in work: 60 mm

- A complete range of welding heads: FLASH600 (600 kN), FLASH1000 (1,000 kN), FLASH1200 (1,200 kN)
- Enclosure welds during destressing operations to free up the traffic lane (FLASH1200)

SPECIFICATIONS

Maximum forging force	From 600 to 1,200 kN depending on model and welding head
Weld-on rail types	Vignole and groove <i>from 36 to 75 kg/m</i>
Technology	Flash Butt Welding
🚫 UIC 505-1 EN 15746 EN 1508	5 (on request)



VERSIONS EURO 3

V2R U-1030 W EURO 3 - UIC SUIC 505-1 On-railing: Lorry/Lorry | Track gauge: 1,435 mm Mini radius: 100 m | Maximum cant in work: 180 mm

V2R M-1030 W EURO 3 - METRIC OUIC 505-1 On-railing: Lorry/Lorry | Track gauge: 1,000 to 1,067 mm Mini radius: 100 m | Maximum cant in work: 110 mm



ROAD-RAIL MAINTENANCE VEHICLE FOR METRIC GAUGE ELECTRIFIED LINES



On-railing: Single axle/Bogie | Track gauge: 1,000 mm | Mini radius: 40 m | Maximum cant in work: 105 mm

- Rear rotating bogie technology for simple, safe and quick on-tracking
- Complete set of working tools for maintenance and monitoring of the line

SPECIFICATIONS

Working platform

1.92 x 1.12 m (2.15 m²)

Radio-controlled handling crane

Schunk pantograph



🚫 UIC 505-1 | EN 15746 | EN 280 | EN 15085 (on request)



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BI-MODE ROAD-RAIL OVERHEAD CONTACT LINE MAINTENANCE VEHICLE FOR URBAN NETWORKS



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On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 20 m | Maximum cant in work: 160 mm

- The high-performance rail solution for tram networks maintenance
- **Hydrostatic advance and tyres off the rail** to respect the surface compliance
- Bi-mode thermal and electric motorization: cleaner and quieter

SPECIFICATIONS

Working platform	2.20 x 1.70 m (3.74 m ²)

Geismar telescopic pantograph

Handling crane (option)

300 to 1,000 kg





🚫 EN 280 | EN 15746 | EN 15085 (on request)



BI-MODE ROAD-RAIL OVERHEAD CONTACT LINE MAINTENANCE VEHICLE FOR URBAN NETWORKS

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On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 20 m | Maximum cant in work: 160 mm

- Bi-mode thermal and electric motorization: cleaner and quieter
- **Hydrostatic advance and tyres off the rail** to respect the surface compliance
- Spacious, high payload platform for all work needs

SPECIFICATIONS

Working platform

4.32 x 2.10 m (9.10 m²)

Geismar telescopic pantograph

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MAINTENANCE & INSPECTION RANGE \\





ROAD-RAIL CLEANING VEHICLE FOR URBAN NETWORKS



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- Versatile cleaning solution with high-pressure jets for grooved rails and platform brushes
- Precise cleaning with the high-pressure gun, the manual nozzle and the third detachable brush for station platforms

SPECIFICATIONS						
Engine	Diesel, CNG or all electric					
Tipper capacity	4,000 L					
Water capacity	1,250 L					
Maximum speed in forward sweeping	12 km/h					
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LIGHTWEIGHT UTILITY ROAD-RAIL VEHICLE



On-railing: Tyres-axles | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 200 mm

- The perfect road-rail solution for carrying people and light material to & from site
- $\,\circ\,$ Towing & propelling capabilities for trailers and specific measurement equipment
- \circ Fully adjustable 450 kg rear cargo bed

SPECIFICATIONS

Loading in deck	- 150 kg: 6 x person mode - 450 kg: 2 x person mode
Number of seats	- On road: 5 - On rail: 6
	🛇 In progress



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CUSTOM RANGE

Geismar is developing **a range** of bespoke vehicles for nonstandard worksites requiring advanced R&D



LIGHTWEIGHT UTILITY ROAD-RAIL VEHICLE

On-railing: Tyres-axles | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 200 mm



- Perfect solution for transportation of people, materials & equipment to and from the worksite
- High towing capacity on rails
- 4x4 with no road restrictions thanks to underframe-mounted rail axles

SPECIFICATIONS

Engine	Diesel - Auto Transmission
Maximum Speed	- on road: 112 km/h - on rail: 32 km/h
Towing capacity	- on road: 3,500 kg - on rails: 12,500 kg
Number of seats	5

🚫 IVA | RIS 1530 PLT-7 (UK)









ROAD-RAIL VEHICLE FOR CLEANING DRAINAGE AND RAILWAY EQUIPMENT



EURO 6

On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 180 mm

- Maximum availability: can be used on both rail and road
- Large storage capacity: at least 8 hours of work
- Able to access track on most level crossings: 6 m minimum

SPECIFICATIONSTank capacity10 m³High-pressure cleaning170 barAvailable toolsDevice for clearing pipes, milling
cutter, root cutterVideo inspection

Emptying by tilting and opening tank

🚫 UIC 505-1 | EN 15746





WEED SPRAYING CONTROL ROAD-RAIL VEHICLE



- Detection by plant recognition with integrated Al based on Deep Learning
- Spraying with electronic control of the different doses for track and for banks
- $\,\circ\,$ Recording of treatments and areas treated

SPECIFICATIONS

Tank capacity	- Water: 4,000 L - Herbicide: 400 L - Pre-treatment: 200 L
Pump unit	3 bars - 80 litres/min
Treatment of the ballast zone	Widths up to 4 m: 1.40 m + 2 x 1.30 m

O UIC 505-1 | EN 15746 | EN 15085 (on request)





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ROAD-RAIL VEHICLE FOR CATENARY UNWINDING

On-railing: Single axle/Bogie | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 200 mm



- The ideal road-rail solution for catenary renewal
- The universal reel stands can operate with any reel, including the less resistant wooden models when used with Geismar tensioner for high tensioning

SPECIFICATIONS

Two independent tensioners				
Two motorized and independent reels				
Rewinding mast with guiding device				
Max tension for winding	- One single wire: 1 x 2,500 daN - Two wires at a time: 2 x 2,000 daN			
Max tension for unwinding	- 500 daN per reel			

OIC 505-1 | EN 15746 | EN 280 | EN 15085 (on request)





V2R U-830 LAI

FIRE-FIGHTING ROAD-RAIL VEHICLE



On-railing: Single axle/Single axle | Track gauge: 1,435 mm | Mini radius: 80 m | Maximum cant in work: 180 mm

- Complete and dedicated solution to access in all parts of the railways including tunnels, bridges, forested areas...
- For extra safety, a rescue system allows firefighters to exit from the fire site even in case of vehicle engine failure

SPECIFICATIONS

Number of seats	6 to 8
Pressurized cabin (SCBA integrated)	
Tonne of water + additive	3,000 L

Detection and protection tools



🚫 UIC 505-1

CUSTOM RANGE \\





CATENARY MOTORIZED ROAD-RAIL ACCESS PLATFORMS

The alternative to road-rail vehicles providing easy access to all points on the catenary (messenger & contact cables) whether they are located in front of or behind the poles.

Available in several versions, the Optima range allows rapid **on- and off-tracking without damaging the ballast**, thanks to its 4x4 chassis mounted on low-pressure tyres. A radio control system makes these operations easier and safer.









MODULAR ELECTRIC ROAD-RAIL VEHICLE

> Platform + crane + pantograph module

Double basket Module

> Plug & Work system: allowing simple, fast and secure module storage and exchange (2 people load a module without any help from a machine)

Wide range of modules: catenary inspection, cable unwinding and renewals, on-track logistical assistance...

Platform + positioning arm module









Geismar supports you throughout the life of your machines and projects

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