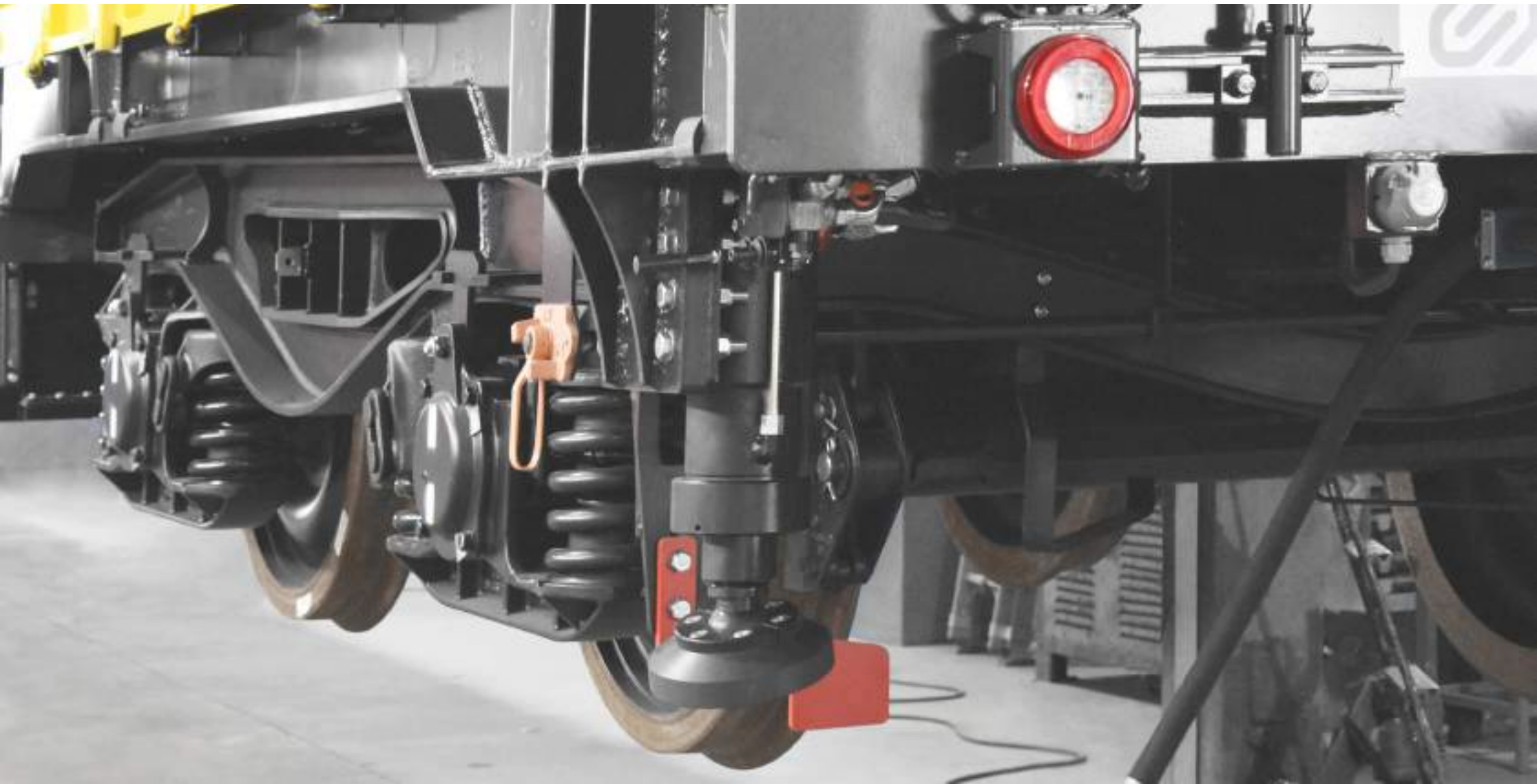




TECNOVE

*"Wherever you need us"*

# SPECIAL RAILWAY VEHICLES



**TECNOVE**

**TECNOVE** is a company founded and established in Herencia, Ciudad Real, that carries out its activity in different sectors. Its work and evolution are marked by quality, innovation and customer service.

Its main lines of business are:



### Vehicles

Design, manufacture and maintenance of bodyworks and special vehicles



### Containers

Design and manufacture of containers and shelters for all types of uses and activities



### CSC | Catering · Services · Construction

Construction of modular facilities, maintenance, cleaning, catering, etc

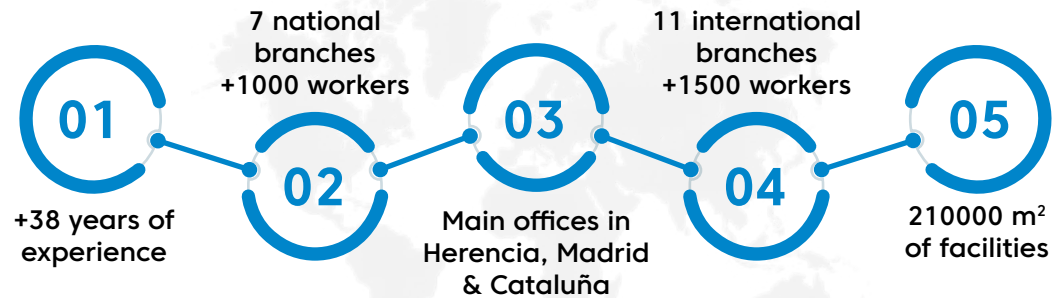
**TECNOVE**

**BUSINESS GROUP**

**TECNOVE** is part of a trade group made up of 10 companies that carry out their activities together in the **TECNOVE Business Group**.

This adds to the business lines image and furniture solutions, telecommunications, energy and remarketing.

**TECNOVE**



**People,  
the epicentre  
of our culture  
and principles**





# Vehicle solutions · Railway

At **TECNOVE** we work daily on the design, calculation, and construction of state-of-the-art railway equipment.

We manufacture various types of vehicles according to the work to be carried out, and in accordance with our customers' specifications and international regulations. These may include additional equipment such as cranes, lifting platforms, reel carriers, catenary line-laying equipment, generators, sweepers, snow ploughs, rescue and derailling equipment, among others.

We offer a variety of rail vehicle solutions, including:

## Rail-road vehicles



## Large tonnage specials



## Wagons







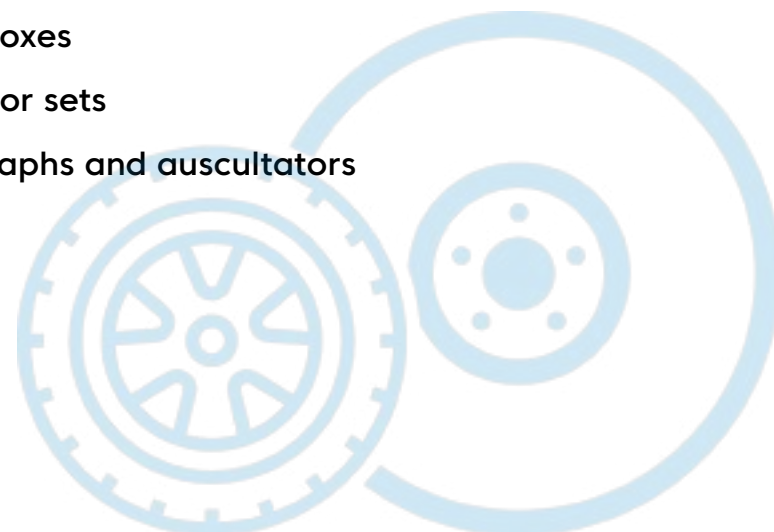
## Rail-road vehicles

We adapt any type of vehicle and industrial machinery to **circulate both on railways and roads**. Depending on their use, they will be:

- **Railway track and overhead line maintenance vehicles**
- **Recovery, emergency and/or rescue vehicles**
- **Cleaning vehicles**

To perform these operations, they may include special equipment such as:

- **Cranes**
- **Lifting platforms**
- **Cleaning equipment / Sweepers**
- **Cargo boxes**
- **Generator sets**
- **Pantographs and auscultators**





## Vehicle

*Rail-road vehicles*

### Guide diplorys

The traction of the vehicle is provided by the pneumatic wheels themselves (which have to tread on the rails) and the railway wheels (diplorys) act as guides

Rear-wheel drive (2 wheels)

All-wheel drive (4 wheels)



### Tractor diplorys

The traction of the vehicle is provided by the railway wheels (diplorys) by means of different types of systems:

Roller friction drive

Hydrostatic drive





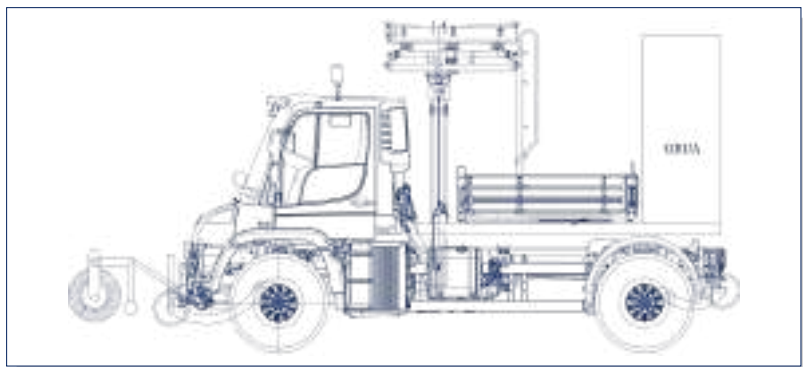
## Quality standards

TECNOVE

*Rail-road vehicles*



**Vehicle  
type-approved  
by the country  
of destination**



## Large tonnage specials

Heavy-duty bimodal rail-road vehicles can be used for a **variety of applications**, from transporting heavy machinery to rescue work.

In addition, **these vehicles can be equipped with various options**, such as high-capacity loader cranes, containers for special railing equipment, water tanks and all the necessary applications requested by the customer.







## Vehicle

*Large tonnage specials*

### Rolling system

Via bogies or axles depending on loads and the optimum weight distribution

### Design

Safety against derailment, braking capacity and optimal traction on rails

### Possibility of running on

1435mm and 1668mm track gauges

### Hydrostatic traction

The vehicle tyres have no contact with the rails. When the vehicle travels on the railway track, it rests entirely on the railway wheels

### Special cranes

High load capacity with maximum efficiency, such as lifting and towing wagons in the event of an accident

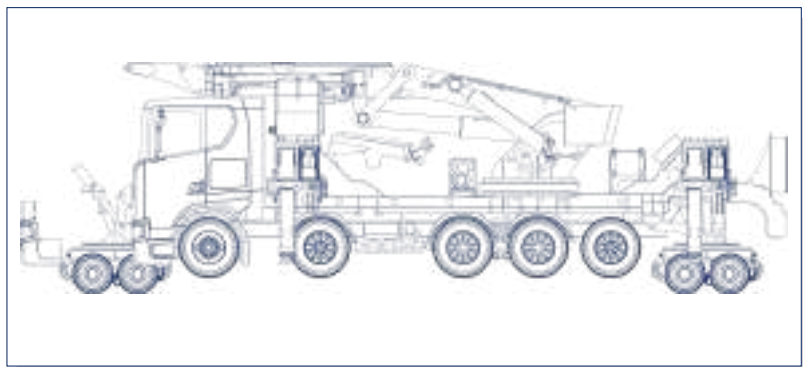
### Switching from road to rail

Quick and easy, positioning rail wheels on rails without taking up space on adjacent tracks and short track crossings





## Quality standards



Ability to  
adapt our  
implementation  
to different  
vehicles and  
cranes

TECNOVE

*Large tonnage specials*





## Wagons

We design and manufacture **special railway wagons**, customizable for different uses or operations according to the needs of our customers.

**Wagons can be designed for specific loads**; platform wagons without sides for transporting loads of various sizes, open hopper wagons for transporting ore or ballast, closed wagons with sides and roof, workshops and mobile offices.

**All wagons can be supplied for different track gauges** depending on the railway infrastructure of the destination country.





## Vehicle

Wagons

### Basic structure

Longitudinal and transverse steel beams connected by means of welding

### Anchorage of wagon elements

Wheels, brakes or pneumatic elements shall be welded to the frame

### Surface finish

By shot blasting process

### Surface coating

Rust preventive primer + paint in the RAL colour specified by the customer

### Track construction

Axles and bogies + brake and traction assembly

### Braking system

*Railway TFA*

Compatible with towing vehicle

### Length

From 4m to 23m

### Weight

From 3tn to 40tn



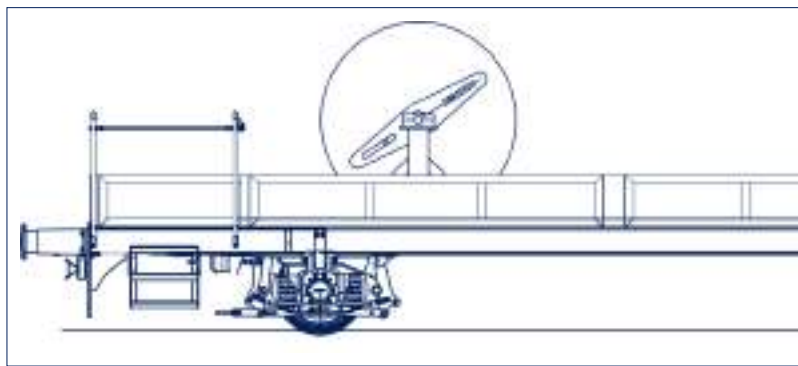
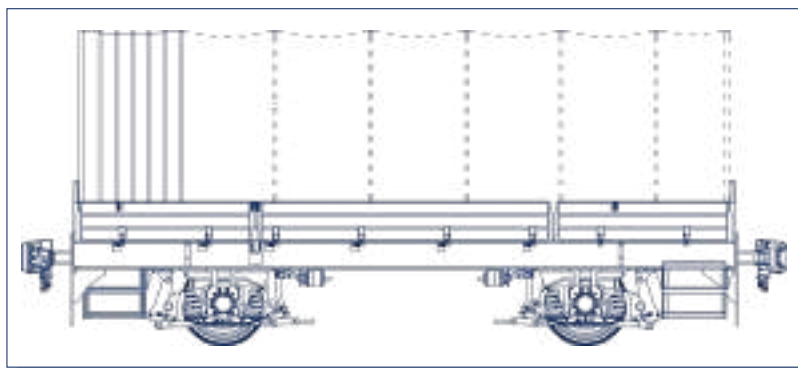
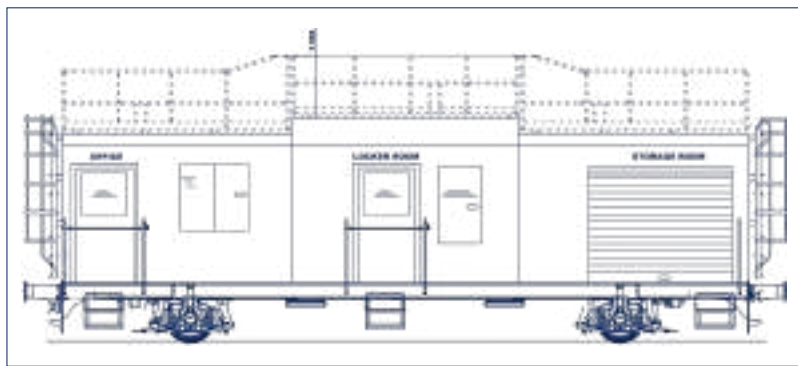


## Quality standards

Wagons



**Wagons  
adapted to  
the different  
rail gauges**





*"Wherever you need us"*

May 2024

For more information please do not hesitate to contact us,  
we will be pleased to help you



[www.tecnove.com](http://www.tecnove.com) · [tecnove@tecnove.com](mailto:tecnove@tecnove.com)