

**ADOR Tech Inc.**

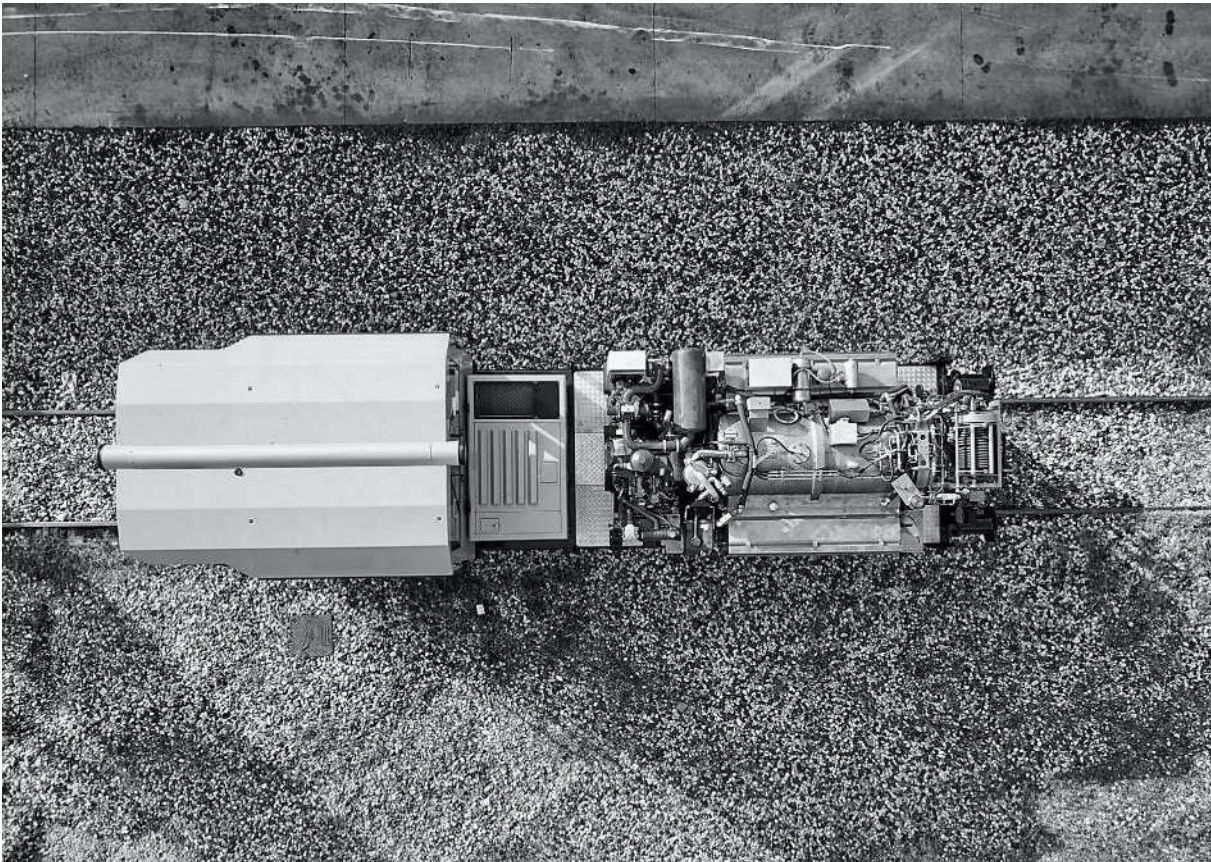
📍 ON, Canada



## ADOR TECH INC.

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ADOR was founded in April 2021 in the field of engineering, supply, and procurement of Railway industrial equipment and machinery. Our Main clients are Federal/Provincial governments as well as P3 entities. We have integrated engineering and commercial expertise to provide our customers with a tailor-made solution and we tend to provide technical and engineering services and supply goods for sophisticated and complex necessities of the industry.



# About ADOR

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The **customer-oriented approach** adopted by ADOR in dealing with orders and projects ensures that customer requirements are fully satisfied. We believe that our diverse customer services are among the most important factors in accessing and gaining clients' trust, including engineering solutions along with the required hardware and software, high technical quality, and our commitment to the after-sales services.



Customer-oriented approach

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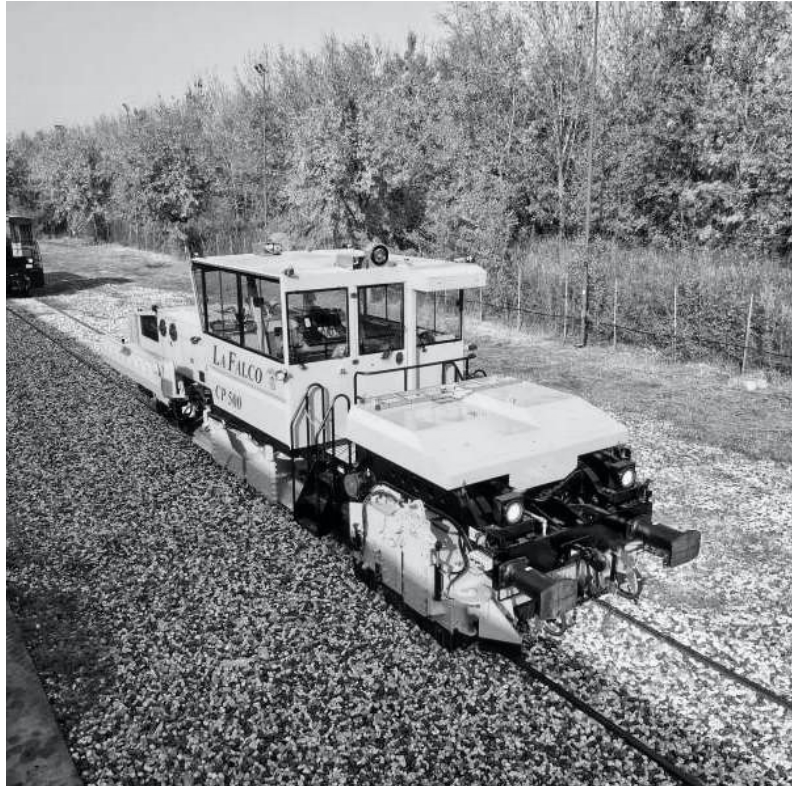


High technical quality engineering solutions

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Best in class after sales services



## Our Partners

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All around the world

### **ACYGS**

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Offer comprehensive rail maintenance solutions to customers around the world, providing cost-effective engineering and equipment supply services.



Designer and manufacturer of rail-road loader, ballast regulators, multi-purpose railway vehicles, & railway maintenance equipment.

### **Aquafrisch**

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A Spanish company specialized in the design, manufacture and commercialization of equipment for railway depots and water treatment. Aquafrisch is expert in the field of train wash plant, bogie washing systems, and CET systems



Manufacturer of a complete range of electric loader and tow tractor and solution provider of entire range of autonomous guided vehicles.



### **Dr. D. WEHRHAHN**

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Solution provider of measurement systems in the railway industries. their measuring technology is used in all areas of laser measuring technology, profile and thickness measurement, distance measurement and ultrasound measuring technology



## MULTI-PURPOSE TRACK VEHICLE

The track vehicle is extremely versatile and it could be personalized in different configurations and equipped with multiple tools such as crane, manlift, brush hay tools, spare parts, OCS height stagger & wire thickness measurement systems, and track monitoring systems, snow removal equipment, and maintenance tools.

It could be configured with different kinds of engines (power capacity from 170 hp to 500 hp).

Also, it is possible to use this track vehicle as a shunter or locomotive because of its high tow capacity.

<b>Power</b>	From 170 HP to 500 HP	<b>Wheelbase</b>	4.5 m to 6.2 m
<b>Emission</b>	Tier 4F	<b>Length</b>	10 m to 14 m
<b>Speed</b>	Up to 60 km/h	<b>Width</b>	2.5 m
<b>Weight</b>	From 18 to 36 ton	<b>Min Curve Radius</b>	35 m





## BALLAST REGULATOR

The ballast regulators that we supply are designed and built to meet today's business needs and the reliability for contractors. The small size combined with a high small local job profiling up to the major renovation construction sites or building new.

Our ballast regulator vehicles are category 4 which has the ability to be incorporated into a train.

The machines are built on a solid frame with 2 axes on which the working bodies, the engine compartment and tanks, the cockpit, and all parts of the machines are connected.

The maximum width of fewer than 3 meters and a weight of 34 tons allow road transport without the need for specific exceptional transport, making it possible to move on the rail network as well as also on the road.

### CP250

Engine	218 HP (Tier 4F)
Wheelbase	6.2 m
Weight	34 ton
Total Length	13.3 m

### CP500

Engine	500 HP (Tier 4F)
Wheelbase	6.2 m
Weight	36 ton
Total Length	13.3 m





## RAIL-ROAD LOADER

We supply a family of road-rail loader includes four types of machines, able to make any type of work on the road and the railway.

Our road-rail loaders have been designed to cope with extremely heavy workloads.

They have a great lifting and pulling capacity, as well as a low and centered center of gravity that give them great stability in all conditions.

Born as railway machines, they are also ideal for use as excavators.

The six independent hydraulic circuits, the latest-generation diesel engine, and the possibility of equipping them with an infinite possibility of equipment and accessories make them extremely productive and highly technological machines.

### GF13 / GF22 / J882 / ENZO

<b>Engine</b>	142 HP to 217 HP (Tier 4F)
<b>Weight</b>	13.5 to 29.3 ton
<b>Lifting Capacity</b>	14 to 40 ton/m
<b>Track Gauge</b>	Available any track gauge
<b>Max Arm Extension</b>	5700 to 7500 mm





## SLEEPER GANTRY

### For Railway Sleepers Handling

We supply gantries for handling and moving the sleepers during the works of construction of new railway lines or renewal of railway lines.

These railway machines are designed for the transport of new and old sleepers on the railway wagons and on the track laying-renewal trains.

Thanks to their high technology, these gantries are able to minimize cycle time and ensure maximum productivity

### PLF20

Weight	16.5 ton
Lifting Capacity	8 ton
Power	200 HP
Maximum Speed	20 km/h





## TRACK-SWITCH LAYING

### Fast and Safe Work with Trolleys for Track & Switch Laying

We supply a full range of gantries and trolleys for track and switch laying.

Thanks to the patented laying system that permits to make extremely quick and safe work, these machines fix a new world standard in the construction of the railway infrastructure

### F40TR / T30 / CTS30 / CTS80

Engine	20 to 120 HP diesel engine or fully powered on electric power
Lifting Capacity	30 to 80 ton
Laying Types	Longitudinal and Lateral
Weight	4 to 10 ton
Command types	Radio Remote Control or manual
Track Gauge	Available any track gauge





## RAILS LOADER CRANE

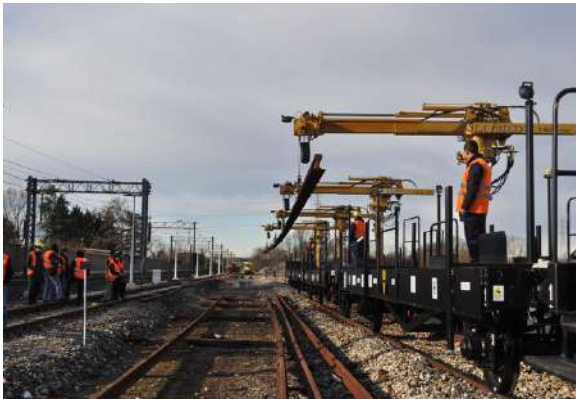
### Safety on Railway Yards

Designed for lifting and transport of the rail, which is a response to the necessity for speed and safety on railway sites.

Radio-controlled and extremely modular, this system permits the laying along the track of new rails and the reclaiming of used rails with unbelievable speed and high efficiency.

### GCR 1000

Engine	46 HP
Lifting Capacity	1,000 kg
Max. Arm Extension	2,500 mm
Rotating Angle	180 degree



## HI-RAIL VEHICLES

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### Rail Fittings Road-Rail

We supply rail fittings for a wide range of commercial vehicles.

In conjunction with the great versatility of the Unimog, there is also a full range of equipment that could be coupled with the railway part, guaranteeing to the customer a machine fully equipped with a "turnkey" solution (samples of available equipment are: crane, flatbed, chemical weeding, etc...).

### Unimog

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Operative weight

Up to 20 ton

Speed

Up to 40 km/h

Engine Power

230 HP

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# TRAIN WASHING PLANTS

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*Aquafrisch*

## Mobile and Fixed Washing plants

The modularity of our plants allows us to adapt easily to the particular surfaces of each train model, being **able to wash sides, front/back, shoulders, skirt, and roof**. As a provider of water treatment solutions, our plants include our own systems specifically designed for the recycling of water used in washing, either by chemical systems, physical systems, or a combination of both.

We also include **specific treatment of fresh water in order to demineralize it** for use in the final stages of washing. We integrate the control of the washing plant and its water treatment under the same system. With the most advanced control systems on the market, we develop easy-to-learn programs with the possibility of connecting to the Internet and centralized control systems (**SCADA, CBTC, MMS**, or similar).



## SAND DISPENSING SYSTEMS

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*Aquafrisch*

ADOR, supplies automated equipment that allows a single operator to fill the sand tanks through dispensers. The sand is stored in a silo and distributed directly to the train depots through a fixed installation or by means of a mobile filling vehicle.

### Fixed sand dispensing system

Fixed installations have local distribution points located along a service track, so several train sand tanks can be filled consecutively. The operator simply places the dispenser in the train's sand bin and opens the flow valve. When the tank is full, the sand that covers the dispenser will stop the flow automatically.

### Mobile litter dispensers

For added flexibility, we supply mobile sand dispensing systems, mounted on a trailer or electric vehicle. This system has a storage tank that is loaded pneumatically and directly from the silo, allowing sand to be easily transported and dispensed to each tank in the train, using a roll-up hose and gun.



## CET SYSTEM

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*Aquafrisch*

### CET Systems for Toilet Waste Water Suction

We supply systems for extracting and loading sanitary water for trains, allowing a simple, fast, and safe emptying and filling process.

#### Mobile CET system for toilet waste water suction

For greater flexibility, we supply mobile extraction systems installed on trailers or electric vehicles. We combine steel or GRP tanks with a capacity of up to 2000 liters with vacuum pumps, which allow a great adaptation to the needs of each client.



#### Fixed CET system for toilet waste water suction

The system consists of independent extraction stations distributed along the railway track. Each station has its own extraction hose and may also include other hoses for the rinsing and filling of the train tanks. The extraction is carried out by means of a pneumatic group that generates a vacuum to extract the fluids from the train.





# NON-CONTACT MEASUREMENT



## Mobile, Non-Contact Measuring System for Detection of the OCS Height Stagger and Wire Position Monitoring

### The OVHWizard System

Two specially developed high-performance ultrasonic distance sensors form the core of the OVHWizard contact wire position measuring system. These sensors are mounted at an optimum angle at the ends of the measuring instrument.

The Small size of the OVHWizard allows a wide range of applications in contact wire position detection that can be used on:



Road rail vehicles



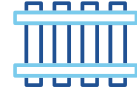
Measuring trolleys



Measuring trains



Contact wire laying vehicles



Rail laying machine



# LASER-BASED MEASURING INSTRUMENT

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## Non-Contact Measuring System for the Railway Industry

We supply systems for extracting and loading sanitary water for trains, allowing a simple, fast, and safe emptying and filling process.

### Wheel Profile Measurement

The OPTImess compact, laser-based measuring instrument ensures that the profile data of wheels are selected and measured reliably. The measuring system is battery-operated with a data logger as an input and memory medium.



### Rail profile measurement

To classify the state of wear of the rail head, and evaluate the necessary maintenance work, measuring vehicles equipped with laser sensors, in which five to seven sensors per rail side are positioned around the rail head, are used. Measured values are recorded every 20cm at these points, at about 80mph, and compared with the nominal profile in the computer. The computer classifies the deviations according to given tolerance values.





# ENGINEERING SERVICES



## Feasibility Studies and Workshop Improvement

### Investment Analysis

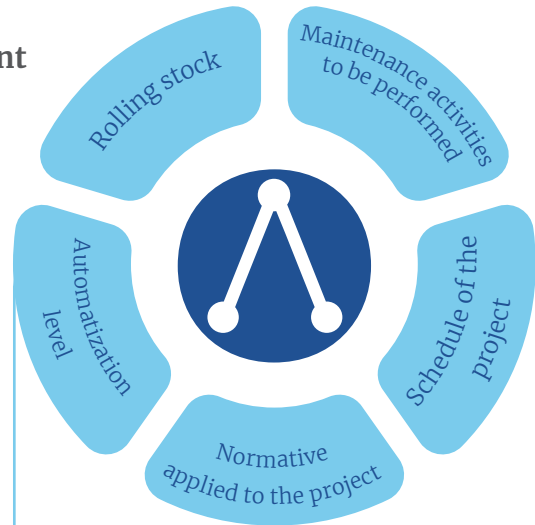
- O&M projects for XX years
- Construction of depot and supply of machinery

### Equipment valuation according to the market

- Adaption to the needs of the client and the project

### Workflow optimization

- Work diagrams
- Time studies
- Workspace definition



### Workshop equipment and definition

### BIM Modeling

- Layout of the workshop – BIM Modeling



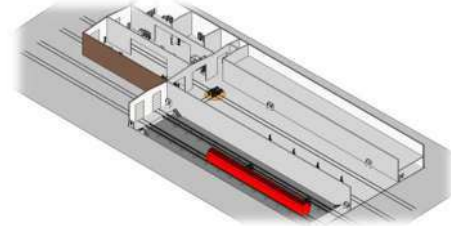
# ENGINEERING SERVICES

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**ACYGS**

## Technical Specifications Drafting

- According to the client's needs
- Purchasing scope definition
- Technical analysis of offers



## Management of Railway Projects

### Final Design

- Equipment drawings, civil works drawings, interfaces, technical documentation

### Manufacturing

- Production order, Gantt chart, monitoring
- by reports and visits to the factories

### FAT

- Documentation and attendance
- during tests

### Installation

- Installation manual, installation planning

### SAT

- Documentation and support during tests

### Training

- Training program, Support and optimization during training

## Technical Support for the Maintenance of Railway Workshops

- Working methods analysis and improvement proposals
- Drafting and improvement of technical maintenance instructions

## WHERE WE WORK

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**ACYGS**

### New or existing depots

- Studies from the start
- Remodeling of areas
- Incorporation of new technologies

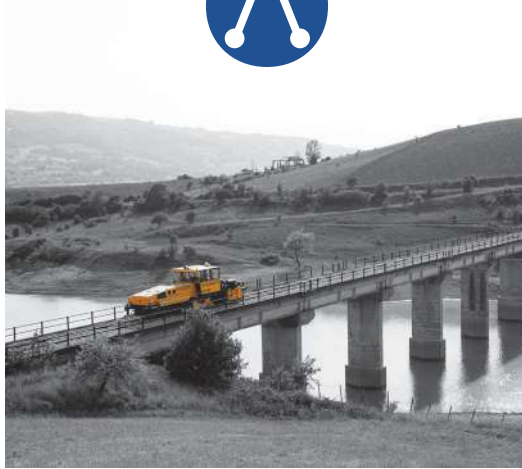


### Maintenance workshop types

- First level – Light maintenance
- Second level – Heavy maintenance or major interventions








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