



Tesmec Rail

**The correct choice for
Sustainability & Environmental protection:**

Solution for construction and maintenance activities
of catenary on railway infrastructure



Multi-purpose wagon with crane and platform – APLA100



This multi-purpose wagon APLA100 is a compact axle rolling stock, designed for **the construction and maintenance activities of catenary on railway infrastructure.**

MAIN FEATURES

The basic version of the wagon is equipped with **crane and platform** and can be customized according to customer needs.

The crane can work as **wire positioner**, thanks to the roller conveyor equipped as attachment.

The maximum dimensions of the model APLA100 allow **road transportation on trucks** with permitted road gauge.

A new solution, SIMPLE, SAFE & RELIABLE

- + **High Modularity** for different customization
- + Different traction systems (**diesel-electric** or **full-electric** version)
- + **Low noise** and **zero exhaust emissions** (full-electric version)
- + Truck transportation (road gauge)
- + **Designed** according **EN14033-1/-2/-3 standards**
- + **Cost saving** (reduced fleet asset and staff, reduction of working times, reduced fuel consumption)
- + **Fast** and **easy** movement of vehicles
- + Predisposed for authorization to circulation as **“hailed wagon”**



Full-Electric version available

TRACTION SYSTEMS

- **APLA100 “BASIC VERSION”**
Diesel – Electric traction system, that allows movement in work mode up to a speed of 9 km/h;
- **APLA100-e “FULL-ELECTRIC VERSION”**
With batteries and full-electric traction system.
The battery-powered electric drive allows movement in work mode up to a speed of 9 km/h, **with zero environmental impact in terms of exhaust emissions and noise.**

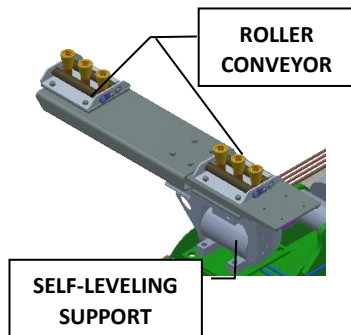
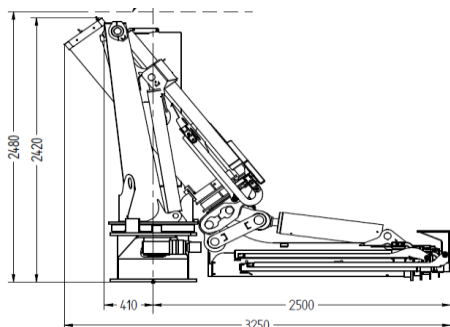
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MAIN TECHNICAL FEATURES

Track gauge	1.435 mm
Max length (btw headstocks)	9.000 mm
Max width (foldable ladders down)	2.860 mm
Max width (foldable ladders up for on truck transportation)	2.500 mm
Tot Length (buffers included)	10.240 mm
Wheelbase	6.000 mm
Max height	3.450 mm
Max weight per axle	16 ton
Max speed in work mode	9 km/h
Max speed in convoy (towed)	100 km/h
Traction system APLA100	Diesel-Electric
Traction system APLA100-e	Batteries

CRANE - WIRE POSITIONER MAIN FEATURES

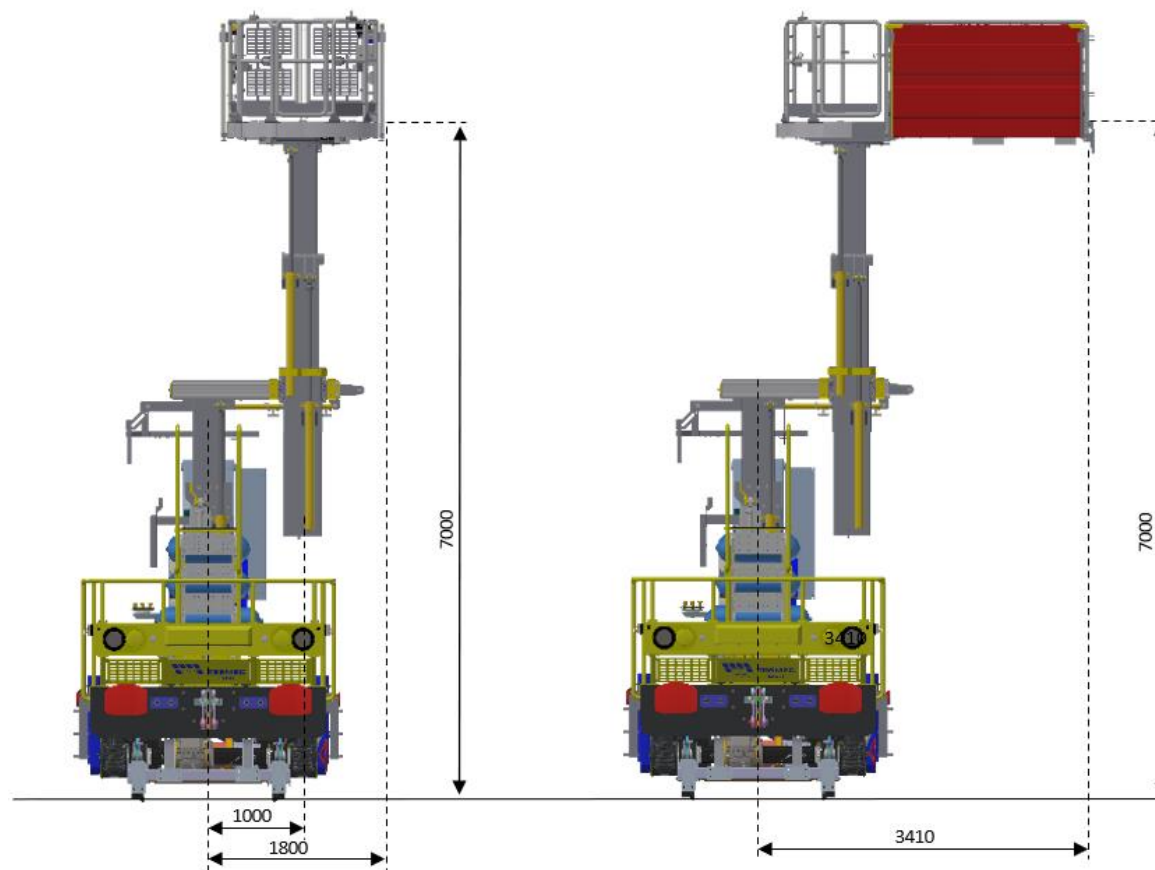
Max height hook from TOR (@+4m from vehicle axle)	+14 m
Max horizontal outreach (hook from vehicle axle) – capacity: 600kg	+11.4 m



WORKING PLATFORM MAIN FEATURES

Max height from TOR	7.000 mm
Platform lateral displacement	±1.000 mm
Platform rotation	±90°
Max load (n°3 operators + tools)	540 kg
Max lateral displacement (from vehicle axle)	3.410 mm

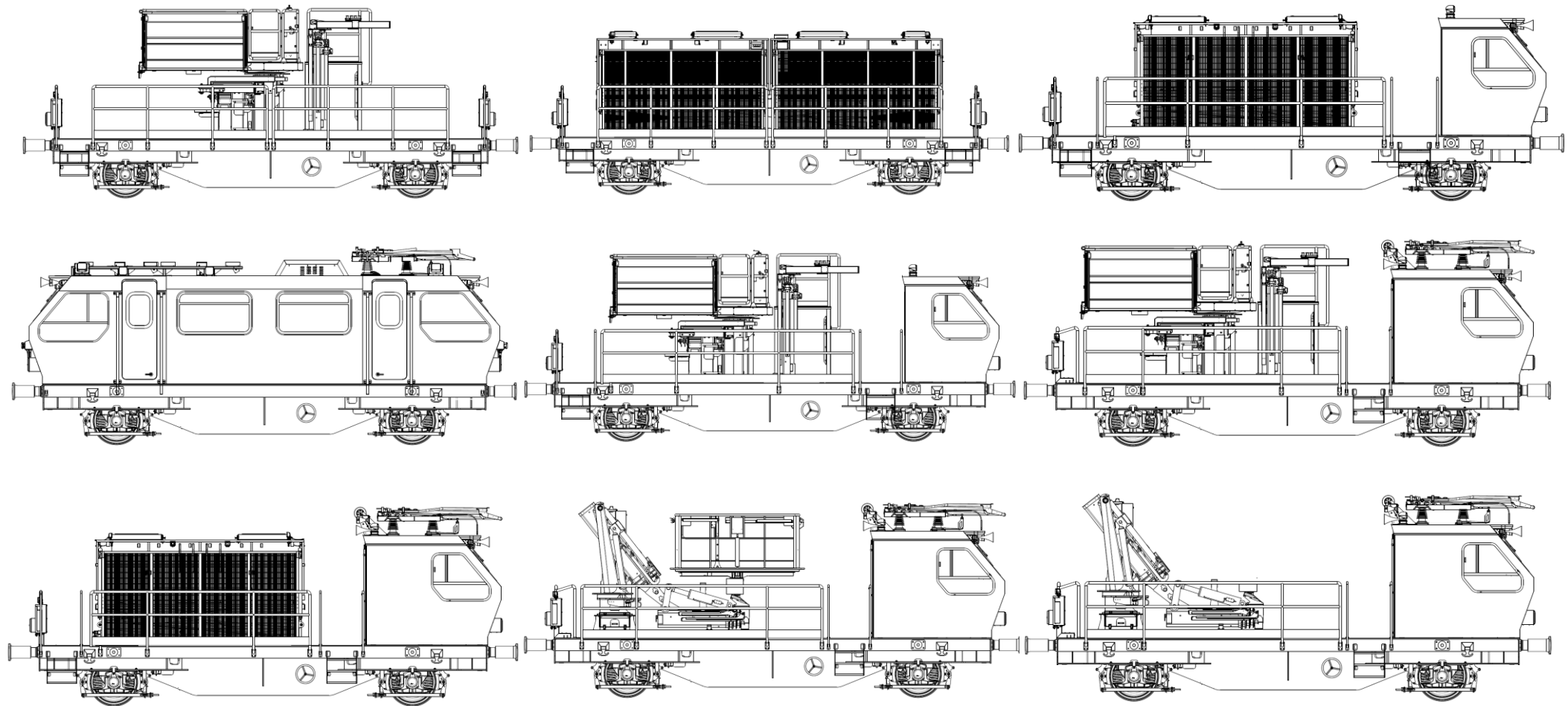
WORK MODE: WORKING PLATFORM PERFORMANCES



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The wagon can be customized according to customer needs.

SAMPLE OF POSSIBLE CONFIGURATIONS OF APLA100: MODULARITY





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