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# PLATFORM BASKET

RAIL ROAD ACCESS PLATFORM

*Made in Italy*



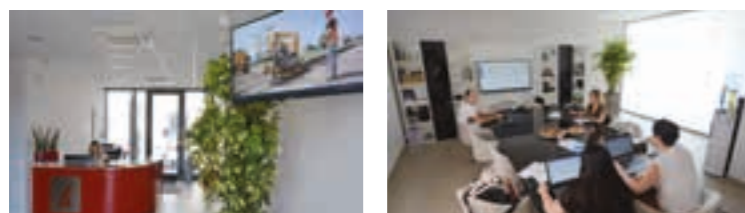
## The “Railway Division”: the utmost reliability and professionalism.

Commitment, reliability and professionalism in the aerial work transport sector have given the Platform Basket brand its introduction to the railway sector.

Our experience in various industrial sectors, including our specialisation in tracked platforms, has led the Emilia-Romagna (Italy)-based company to develop a road/rail model which has had recent success in various parts of Italy and abroad.

With this success, Platform Basket now boasts a specific railway division which produces specific aerial work equipment for people and equipment, designed to solve general railway maintenance problems.

We now offer extremely lightweight, manoeuvrable and high-performance products which allow maintenance to be performed with ease, using road transport to reach the work location, preventing blockages or delays on the railway line.



The strict railway regulations are an integral part of the development of each new piece of equipment created by Platform Basket. Products certified for the most important European and international railways are now available.

This is an important milestone which represents an ICON for the promotion of products in each sector.



## Research and development elevated to the highest power

Platform Basket produces aerial work platforms that stand out for their reliability, safety, performance, quality and ease of use.

The products are constantly evolving in order to ensure that the highest performance standards are maintained. Never before has technology evolved so quickly, making it necessary to keep up to date at all times and supply products which offer an easy approach to management and use.

Our customer focus is a driving element in a continuous, professional relationship.



### After-Sales Training

Platform Basket initially structured its organization with the necessary attention to the training of its own sales network. This initially involved its own technicians from the design and development department, and then personnel specifically trained to carry out training activities both internally and directly at dealerships.



### Remote Diagnostics

A remote diagnostics system for the platform is currently being developed in order to further improve the quality of the after-sales service for the customer.

### Spare Parts

The replacement of parts is now organized in such a way as to allow the dealer to easily identify the spare parts, allowing them to order the parts to be shipped in a very short timeframe simply by writing to us.

A dedicated warehouse operator and an extremely well stocked warehouse allow most requests to be dealt with very quickly.

## Organization at the root of the service



## From steel to the finished product

Platform Basket devotes great attention to the control of its entire manufacturing process.

Today's product is the result of a special focus from management, which directs its production strategies towards technologically advanced solutions.

Belonging to a holding company which also owns a structural steelwork firm (TMC Srl), with over 40 years' experience, has allowed the creation of welded structures using extremely reliable robotic processes.

The experience gained in this field has allowed Platform Basket's engineers to make use of a unique combination of experience and technology to which they would not otherwise have had access.

This successful design and production synergy then led management to acquire a company specialized in the creation of electrical systems in the mobile sector.

This further choice has proven to be essential in terms of flexibility in the construction of our products and the acquisition and exchange of know-how.

Although recently acquired, QBM Srl is already working full time on Platform Basket's electrical installations and electronic systems.

No less interesting in the context of the process is the system of storage and collection of materials, all strictly stored in vertical storage systems which are controlled directly by IT systems. This allows only the operatives to pick the materials and supply them to the lines for the model being produced.



# The technical solutions which make our products unique

## Specialisation

Unique self-propelled aerial work platforms for the railway sector, specifically designed and built for this purpose.

The numerous models of platform sold in the railway sector are derived from industrial platforms which are then converted to railway use. Platform Basket, in compliance with sector standards, designs equipment with native technological content for the intended use, researching ways to optimise the weight distribution, control the working area, and monitor the operational data via a "black box", all in absolute safety and reliability for the operators in the basket.



## Innovation (RR9)

Adoption of track rotation system on the small RR9/200 model which can be transported on trailers.

This innovative rotation system of the tracked carriage via remote control ensures complete machine safety when entering and leaving the railway, and great ease of positioning it on the railway tracks.

In just a few minutes it is possible to offload the platform from the road transport trailer and position it on the railway tracks, even without an access platform.



## Automatic Levelling

A smart automatic levelling solution for the upper structure in relation to the cant of the bend. This solution, adopted by Platform Basket more than a decade ago, is still one of our main selling points. The system allows the operatives in the basket to work on any track cant condition (up to a grade of 8°) with the basket always horizontal levelled.



## Pantograph 3064PB

Optional measurement and earthing accessory for use with all RR 14 models.

Compact when closed to optimise use, reducing the total height to three metres. This characteristic allows the platform to be transported on a standard load bed without having to remove the pantograph from the machine.

This pantograph can also be used on other vehicles, simply by connecting it to the vehicle with which you wish to measure the overhead lines.

Vertical movement is provided by a telescopic system, while there is a free movement bar in the upper section with the dual function of earthing the machine and providing a constant thrust on the overhead line (from 5 to 50 kg).



It adjusts automatically to the vertical position in order to keep the contact with the overhead line constant: a digital display allows the operatives to monitor the distance between the track and the overhead line. A graduated rod, positioned on the bar, also allows the horizontal position of the cable to be read.

The 3064PB pantograph is designed with an automatic locking and release system which does not require support from the operative.

### Optional equipment:

- 1600 mm wide bar instead of 1900 mm wide standard model
- GPS and data logging with SIM card.
- Large display installed on the bar and visible from the basket.



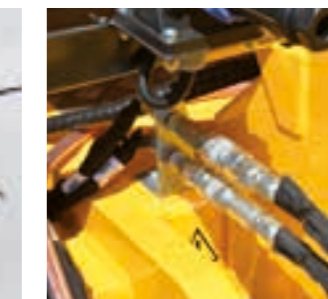
- Clutched winch to facilitate the installation and removal operations of the 3064PB
- Inductive rod for lateral measurement with the goal of monitoring the lateral, as well as the vertical, position of the overhead line. This system ensures that the inspection is recorded through a data logging system and a GPS device.

### Technical data

Maximum flow rate: 9 l/min  
 Maximum pressure: 140 Bar  
 Thrust on aerial line: from 5 to 50 kg  
 Closed size: 2.21 m  
 Open size: 5.21 m  
 Lateral measurement: graduated rod  
 Total weight: 220 kg

### Electrical specifications

Voltage: 24 Vdc  
 Impedance through pantograph: Ohm  
 Earthing cables CSA: 70 mm<sup>2</sup>



## Lithium Ion Batteries

An ever-greater focus is being placed on technology to fight pollution, both noise pollution and emissions from internal combustion engines. Platform Basket has, for some years now, been encouraging the users of its equipment to adopt hybrid or even fully electric systems.

Lithium-ion (LiFePo4) battery technology has allowed a significant performance increase with reduced weight, and above all with constant use of the battery as the level of charge varies.

The RR14/400 and RR19/500 models are currently offered in hybrid versions, thus guaranteeing optimum operation in any situation of use.

The new compact RR9 model, on the other hand, boasts a fully electric solution which allows it to be used in any situation with low noise levels and zero tailpipe emissions.





## Available Series

RAIL ROAD SERIES							CONTENTS	
	Series	Working height	Side reach	Power units			Trailer Transport	Page
		m	m	STD	E	ED		
	RR 9/200	9.50	5.00	•	•		•	10
	RR 14/400	14.40	9.50	•		•		12
	RR 19/500	18.70	13.80	•		•		14



# Series: RR 9/200 Compact, lightweight and versatile for light railway maintenance works.

The new RR9/200 is the small aerial platform recently developed by Platform Basket in order to make aerial railway maintenance extremely easy.

**The product** was designed with the goal of offering an extremely light and compact piece of equipment that can be transported by road trailers with a maximum total weight of 3.5 tons, capable of working on railways up to a working height of 9.5m with 200kg of payload and two people on board. RR9/200 offers the possibility of having a self-propelled platform for both rail and civil aerial work.

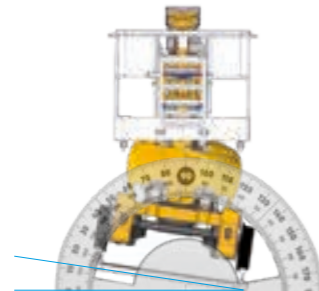
The equipment can therefore be transported to the workplace with the use of pick-ups or vans equipped with tow hooks, with the aid of light trailers that can be driven without an HGV licence.



**The transmission features** independent drive wheels both for the control of the tracked carriage and for the transmission on railway wheels. Each railway drive wheel has a negative brake to guarantee braking of the equipment under all conditions when power is not present. In combination with a two-speed system, RR9/200 can be used at a speed of up to 10km/h on the railways.

**The power** is delivered by a 10.5 kW diesel engine.

On request, it can also be equipped with lithium-ion batteries for fully electric operation in order to make the equipment suitable for use in tunnels, underground railways and inside buildings such as sheds, stations etc.



**The upper structure** is composed of a 360° rotating turret with automatic levelling of the basket even in the presence of a rail cant of up to 180mm with a 1435mm gauge.

Its articulated arms make it extremely compact and suitable for entering and leaving the railway even in the presence of a road open to traffic. The all-aluminium aerial basket offers sufficient working space to accommodate up to 2 people on board (200kg). Through a sequence of copper braids of 70 mm<sup>2</sup> CSA, located between the various joints of the platform, equipotential is guaranteed between the operator basket and the railway track to ensure the safety of personnel on board in the event of electric spikes.

**The structure** of the RR9/200 is composed of a tracked base carriage for road and off-road use which offers excellent grip under any ground condition, together with a low specific load specifically designed to allow its movement even in the presence of delicate floors of railway stations.

The base carriage also offers a system of 2 hydraulically controlled carriages that allow the transfer of the machine from tracks to railway wheels.

The real advantage of this base carriage, however, is the **hydraulic rotation of the tracks perpendicular to the 2 railway bogies, which allows easy access to the railway without the need for special alignment manoeuvres.**



## Main technical features:

- 200 kg basket working load
- 9.50 m working height
- 4.70 m side outreach
- Two-man basket
- Self levelling platform on railway bends (cant)
- Independent drive transmission on tracks & railway
- Diesel Kubota engine, 10.5 kW
- Towable on regular 3.5 Ton GVW trailers
- Removable and interchangeable basket



# Series: RR 14/400

Powerful and functional, both on road and rail (hybrid version available on request).

A light and versatile platform designed and manufactured to allow combined use both off-road and on railway tracks. It features a self-levelling turret, a spacious basket for 3 people with 400kg load capacity, and independent drive on both tyres and rails.

The platform is particularly well suited for maintenance of railway infrastructure electrical lines.



Independent hydraulic drive system on road and rail in order to make use of the machine easier and more functional. Available with interchangeable railway axles with reduced gauge



**Engine**  
The platform is now available with a 42 kW engine which complies with the stringent "EU Stage V" emissions standards via a DPF on the exhaust system.



## Main technical features:

- Easily transportable to the workplace
- Compact with high basket load capacity
- Self-levelling on railways, compensating for a cant of up to 200 mm
- Fast transfer speed of up to 19 km/h (up to 5 km/h with booms extended)
- Versatile and packed with accessories such as hydraulic generator, auxiliary engine, measurement pantograph, multiple gauges, remote diagnostics and geolocation.
- Easy access to tracks via four steered wheels with tyres.

**Automatic levelling**  
Possibility to work on tracks with cant of up to 200 mm, with automatic levelling of the turret and all aerial parts in order to maintain a working position which is level at all times.



**Driving camera**  
In order to improve driver visibility, it is possible to install an optional video camera and display to provide an improved view of the side opposite the aerial basket. This also facilitates alignment with the track when the platform enters the railway.



**Large basket**  
with load capacity up to 400 kg (3 people + 160 kg of equipment). Basket rotation: 180°. Simple, easy-to-use control panel in an accessible position.



**Rotation: +/- 180°**  
limited by mechanical pins and electric sensors, with display in the basket.



**Equipotential shielding.**  
All platforms are fitted with large-section copper cables in order to minimise the electrical resistance between the aerial basket and the railway wheels. Complies with railway regulations in all countries.



**Driver seat**  
On request, a fold-down seat can be installed for the platform driver to make long transfers more comfortable.



Series:

# RR 19/500

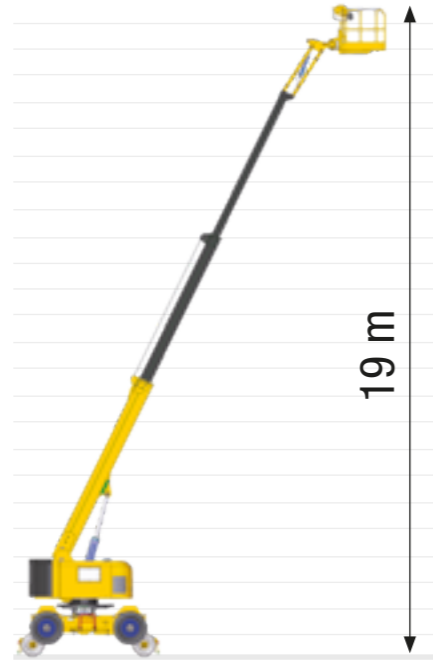
Powerful, manoeuvrable and safe with working height of up to 19 metres.

The big brother of the current RR14/400, but with the same main features such as EURO V engine, auxiliary engine, independent hydrostatic transmission; it offers a load capacity and working height greater than the smaller model. This model is ideal for work at heights of above 14 m.

Equipped with a telescopic boom, it is extremely rigid and safe on board, with the load capacity for the three-person basket further increased to 500 kg.

The technological solutions adopted include the telescopic main boom, with a complete lack of externally mounted wires and hoses.

The all-wheel-drive transmission with four steered wheels with tyres and the same number of railway drive wheels make it extremely capable when driving over obstacles and in off-road use.



### Automatic levelling

Possibility to work on tracks with cant of up to 200 mm, with automatic levelling of the turret and all aerial parts in order to maintain a working position which is level at all times.



### Main technical features:

- Easily transportable to the workplace
- Compact with high basket load capacity
- Self-levelling on railways, compensating for a cant of up to 200 mm
- Fast transfer speed of up to 19 km/h (up to 5 km/h with booms extended)
- Versatile and packed with accessories such as hydraulic generator, auxiliary engine, measurement pantograph, multiple gauges, remote diagnostics and geolocation.
- Easy access to tracks via four steered wheels with tyres.
- Features a telescopic boom with no lines installed on the outside of the boom.
- Oscillating railway axle in both directions of travel.



### Rotation: +/- 180°

limited by mechanical pins and electric sensors, with display in the basket.



### Engine

The platform is equipped with a 55 kW engine which complies with the stringent "EU Stage V" emissions standards via a DPF on the exhaust system.



### Lines inside boom

An internal guide system inside the telescopic boom allows both the hydraulic ram and the lines and wires to be installed internally, meaning delicate parts are not mounted on the outside where they could be struck by foreign bodies and compromise the operation of the platform.



### Driving camera

In order to improve driver visibility, it is possible to install an optional video camera and display to provide an improved view of the side opposite the aerial basket. This also facilitates alignment with the track when the platform enters the railway.



### Equipotential shielding

All platforms are fitted with large-section copper cables in order to minimise the electrical resistance between the aerial basket and the railway wheels. Complies with railway regulations in all countries.



### Driver seat

On request, a fold-down seat can be installed for the platform driver to make long transfers more comfortable.





## General specifications



The advantages of this product range involve the possibility to offer a series of equipment starting from the smallest which can be transported on trailers and can easily access any location, whether mountainous or on the flat, with narrow access and loose ground, where normal vehicles cannot pass.



All platforms are equipped with an onboard display providing the main operating information, displaying any operating faults to the operator immediately.



Numerous work lights are installed on different points of the platform to facilitate night-time use of the machine.



The small RR9/200 is equipped with a tracked drive, which allows it easier access to the railway and offers reduced ground loading, making it particularly suitable for use on railway platforms.



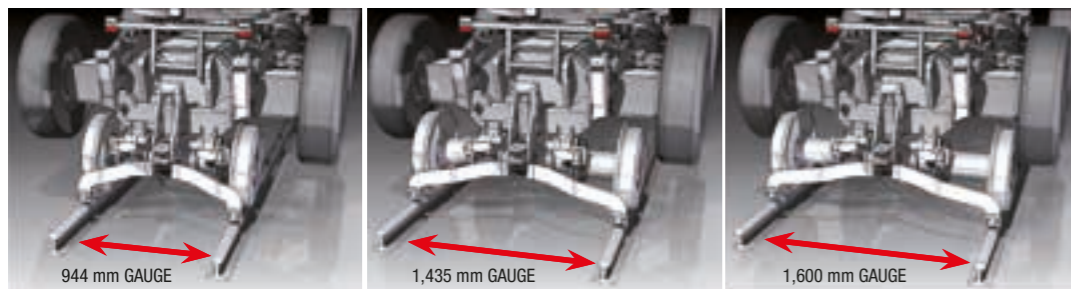
The RR14/400 model is available in different versions, in particular the recent HYBRID version which allows its use in environments in which a focus on emissions and noise pollution are key.



The RR14/400 model is the current undisputed market leader in terms of its ease of use and compact transport on trailers.



The brand-new model with 19-metre working height draws its main operating features from the 14-metre model, but has an increased reach and load capacity. It is therefore the ideal model for the most demanding customers who need to work at the side of the railway rather than performing typical work on overhead lines.



On request, the machines can also be equipped with multi-gauge railway axles to increase their versatility.

## Accessories

### Accessories for RR9/200



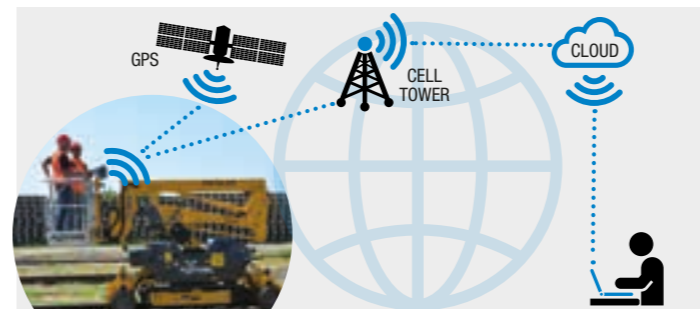
Super-lightweight transport trailer



Removable generator



Anemometer



Remote diagnostics and geolocation system



Single-man basket

### Accessories for RR14/400 and RR19/500



Hydraulic generator



Measurement pantograph



Machine data "black box" recorder



Auxiliary engine



Emergency electric pump



Transfer video camera



Anti-entrapment device



Trailer hydraulic braking device

### Accessories for all models



Synthetic high-performance oil (PANOLIN)



Biodegradable oil



Warranty extension from 12 to 24 months



Warranty extension from 12 to 36 months

# Certifications



**High level of Quality controls and Certifications**

As soon as we began to reflect on the production of platforms for aerial work in the railway sector, we realised that we would need to design a product with multiple configurations in order to allow it to be certified for full compliance with the various regulations in force around the world.

In the railway sector, the RAIL ROAD 14 aerial work platform has received approval in Austria, the Netherlands, Denmark, Belgium, Sweden, the UK, Germany, Switzerland, France and Australia, as well as approval through the Italian national railway body.

- Certifications obtained:**
- EN 280 : 2015 (Europe)
  - AS / NZ 1418 : 2011 (Australia)
  - AS/RISSB 7502:2016 (Australia)
  - EN 15746 1&2 (Europe)
  - RIS 1530 / 6 (UK)
  - TDOK 0002 (Sweden)
  - SNCF NF F 58002 (France)
  - RIL 931.0003 DB Netz (Germany)

Further approvals are pending, which will allow sales in most countries around the world.

**Up-to-date certifications on website**

-   
EN 280:2015
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AS/NZ 1418:2011
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AS/RISSB 7502:2016
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EN 15746 1&2
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SNCF NF F 58002
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RIL 931.0003 DB NETZ





04-08-20 Data, dimensions and specifications are provided for the purposes of comparison and are non-binding.



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