

RR 14/400



PL/TFORM
B A S K E T

RAIL ROAD ACCESS PLATFORM

Made in Italy



RR 14/400

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

The project

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.

The transmission

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.

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.

Main fields of use:

- In the civil and industrial sectors, it allows construction and maintenance work at high level even with heavy loads in the basket
- Rail access for heavy maintenance work at high level and railway power lines in general.
- In working conditions where it is necessary to work without pollutant and noise emissions thanks to the equipment provided with Lithium-Ion batteries to allow clean energy with zero emissions.



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.



Rotation: +/- 180°

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



Driver seat

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



Ergonomic and intuitive remote control

unit enable the easy movements of all machine functions.

on request).



The all-steel aerial basket offers sufficient working space with the possibility of accommodating 3 people on board plus equipment (400kg).

Through a sequence of copper braids located between the various joints of the platform, ensure bonding between the basket and the railway track.



Accessories:

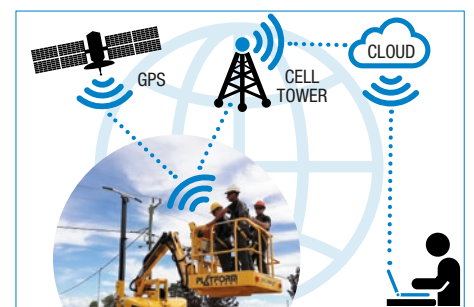
- 220 Vac/ 5 kW generator with socket on the ground and in the basket and which can also allow self-charging with the lithium battery option.
- 3064PB measuring pole that allows measurement and maintenance of the power line up to 6400 mm height from the rail
- Galvanized basket
- Braking for support carriages up to 10T (where allowed by certification)
- Electric version with lithium batteries replacing the secondary endothermic motor. Version specially designed for work in environments where noise and pollution are prohibited.
- Multi-gauge version



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.



Anemometer for monitoring and warning that the maximum permissible wind speed (45km/h) has been reached



Tele-diagnostics and Geo-location (on request). Device installed on board the equipment that allows it to be remotely accessed by personnel to maintain the efficiency of the platform.

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Technical specifications (1435 mm gauge)

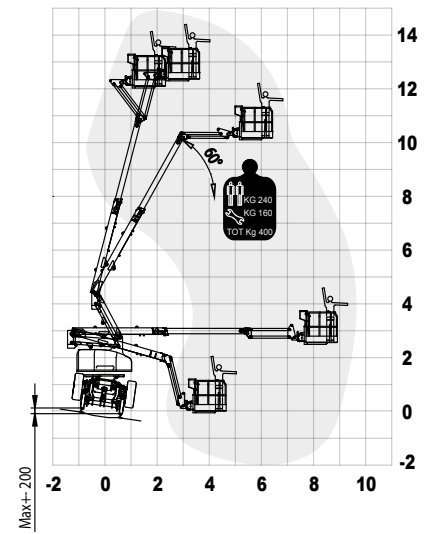
Diesel model

Diesel + lithium model

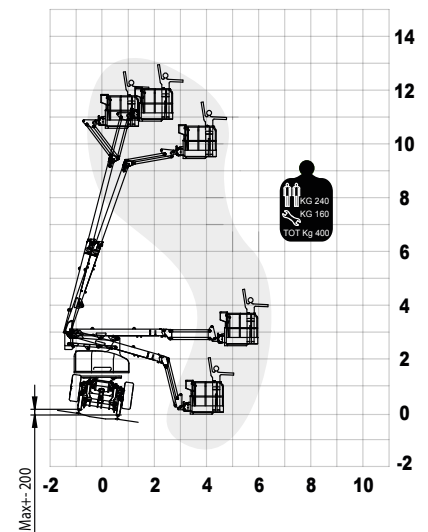
Max working height (static)	14,1 m	14,1 m
While driving (dynamic)	12,9 m	12,9 m
Max. lateral outreach (static)	9,3 m	9,3 m

Rotation angle (mech. Set up)	deg 180° + 180°	deg 180° + 180°
Basket rotation	deg 90° + 90°	deg 90° + 90°
Lenght in stowed position	6,4 m	6,4 m
Min. stowed width	2,4 m	2,4 m
Min. stowed height	2,8 m (Road) – 3,1 (Rail)	2,8 m (Road) – 3,1 (Rail)
Weight	13500 kg	13900 kg
Max driving speed in travelling mode on railway	15 km/h (Rail)	5 - 8 km/h (Rail)
Max travelling speed in working mode on railway	2,8 km/h (Rail)	2,8 km/h (Rail)
Max driving speed in travelling mode on tracks	5 km/h (Road)	3 km/h (Road)
Max travelling speed in working mode on tracks	1,5 km/h (Road)	1,5 km/h (Road)
Minimum turning radius (Rail)	<40 m	<40 m
Max turning slope (CANT)	200 mm	200 mm
Main engine power	42 kW (57 Hp) – EuV engine	10-16 kW (48V - 400Ah)
Basket SWL	400 kg	400 kg
Max allowed wind speed	45 km /h	45 km /h

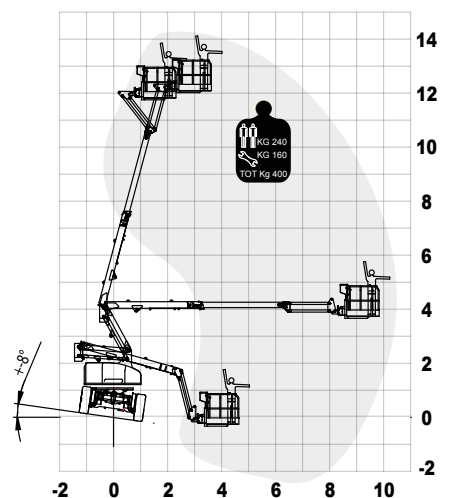
1435 mm rail gauge -static



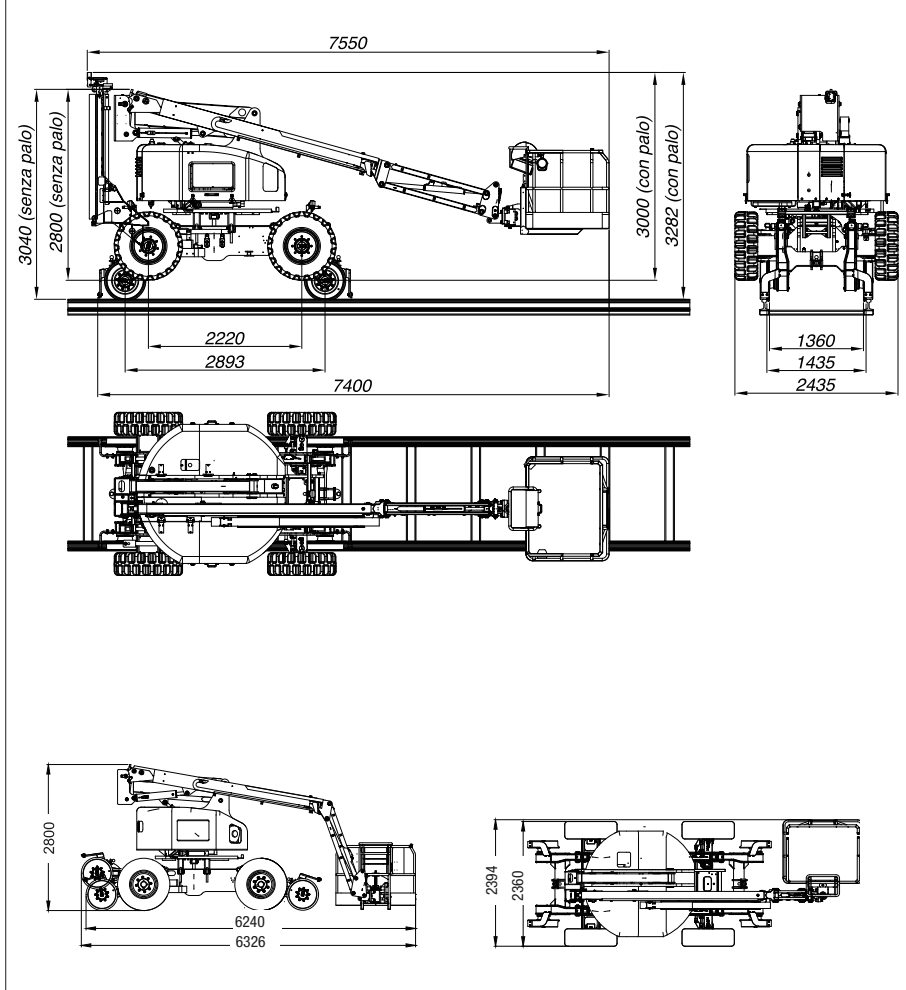
1435 mm rail gauge -dynamic



Rubber wheels – static



Overall dimensions when on tracks



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VIDEO PROFILE

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