Electric platform truck

PE15.1

Load capacity 1,500 kg



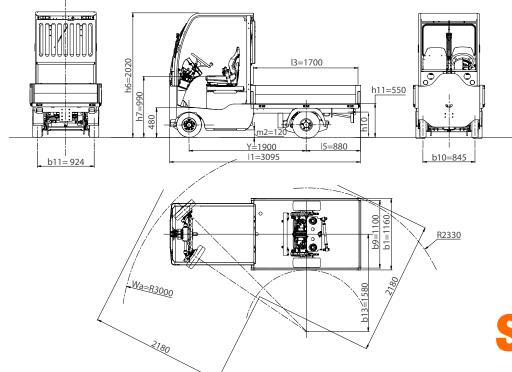
The PE15.1 is a heavy-duty sit-on 4-wheel platform truck. It is the most compact of the Simai range. Its small size and the power of its 2 motors make it ideal for applications in narrow environments with ramps, both indoors and outdoors. Despite its compact size, the loading platform of the PE15.1 lends itself to the housing of equipment and the installation of structures such as sheets or tool holders, making it extremely versatile for various segments. The suspension ensures excellent stability of the load placed on the platform as well as high driving comfort. With its 2 new motors positioned on the rear axle, the PE15.1 can tow trailers of up to 10 tonnes in total.

- The chassis with side members ensures maximum robustness, as well as a long service life of the truck.
- Sheet-metal loading platform size 1,700x1,100 mm set of aluminium sides available as a dedicated option.
- Suspension: front with wishbones and self-damping coil springs, rear with coil springs, hydraulic shock absorber and anti-roll bar.
- Foot-operated service brakes, acting on all 4 wheels with a split circuit. Drum brakes at front. Multiple oil-immersed disc brakes at rear. Negative electromagnetic parking brake as standard. Electric pre-tensioned brake activates when accelerator pedal is released, with first stroke of brake pedal and reversing direction.
- Steer-by-wire electric steering, operated via 3-spoke steering wheel and fixed on a height- and depth-adjustable column.
- 1/2 on-board operators. Various seat options, with or without seat belt, with suspension and mechanical weight adjustment, ensure driving comfort.
- "Man on board" device under driver's seat.
- Digital dashboard with battery charge indicator, fault detection, speedometer, steering angle indicator, speed profile selection, odometer and hour meter. 24 V DC/DC converter for auxiliary services.

- 2 x 6.6kW new generation AC electric motors directly integrated in the gearboxes, one for each wheel. Electronic differential system.
- Lighting system: 2 front lights (dipped-beam/main-beam), 2 front and 2 rear turn indicators, 2 rear lights (position/brake/ reverse) - Full LED lights. Optional beacon and blue safety light.
- Electronic AC control with energy recovery and deceleration braking.
- Several towing hitches available. Optional rear inching control to ease coupling operations.
- DIN 43531A 48V 500 Ah battery side extraction.

Standard paint finish: chassis dark grey RAL 7021/body light grey RAL 7035. Other colours available upon request.

Easy access to all components for fast and effective maintenance. Reduced cost thanks to AC technology and modular construction.





SIMAI S.p.A.

PE15.1

8.5 Towing coupling, type DIN As per VDI guidelines 2198, this datasheet applies to standard electric tractor / platform truck only. Dimensions are not binding and can be changed in any moment. The performances must be intended for brand new machines, after having completed the running-in tested in San Donato Milanese Factory in normaal climatic conditions. Performances and weight are to be intended with standard motors and battery (reported in bold) and with extra-elastic tires. Some data can vary according to different equipments.





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1.2

1.3

1.4

1.5

1.5.1

1.7

1.9

2.1

2.2

2.3

3.1

32

3.3

3.5

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4.8

4.8.1

4.12

4.13

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4.19

4.21

4 32

4.35

4.35.1

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4.36.1

5.1

5.5

5.6

5.7

5.8

5.10

6.1

6.3

6.4

6.4.1

6.5

6.6

8.1

8.4

6.1.1

5.10.1

5.5.1

-EATURES

WEIGHT

IIRES- CHASSIS

DIMENSIONS

PERFORMANCES

MOTOR

OTHER DATA

Manufacturer

Operator Type

Load Capacity

Wheelbase

Tyre size front

Tyre size rear

Tread front

Tread rear

Seat height

Coupling height

Platform length

Rear overhand

Platform width

Overall length

Overall width

Turning radius front

Turning radius rear

Turning radius inner

Drawbar pull laden

Drawbar pull unladen

Aisle width when turning 90°

Travel speed laden/unladen

Gradeability laden/unladen

Max. Drawbar pull laden/unladen

Max. Gradeability laden/unladen

Type of service brake front/rear

Energy consumption (EN 16796)

Hydrauling steering motor rating S2=60 min

Sound level at driver's ear according to DIN 12053

Drive motor rating S2=60 min

Battery voltage

Battery weigth

Drive Control

Battery rated capacity

Height of roof/cabin

Step on platform height

Loading height (min / MAX)

Ground clearance - centre of wheelbase

Towing Capacity

Rated Drawbar pull

Service weight (w/battery)

Axle loading unladen front/rear

Wheels nr. Front/Rear (X=motive)

Mode

Drive







