Electric platform truck PE30 Load capacity 3000 kg



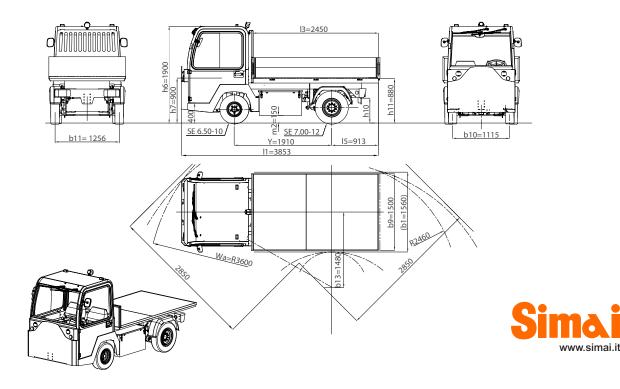
The PE30 is a sit-on 4-wheel platform truck. It is suitable for long-distance high-speed operations in the industrial sector. Suitable for both outdoor and indoor applications, the PE30 is equipped with a loading platform that can be customised according to customer needs, allowing the assembling of equipment for production site or railway maintenance. The suspension ensures excellent stability of the load placed on the platform. With its 2 new motors positioned on the rear axle, the PE30 can tow trailers of up to 8 tonnes in total. Its small size allows it to be approved for road use.

- The chassis with side members ensures maximu robustness, as well as a long service life of the truck.
- Phenolic resin coated plywood platform size 2,450x1,500 mm
 Set of aluminium or wooden sides available as a dedicated option.
- **Suspension:** steel coil springs and shock absorbers in the front, rubber springs in the rear.
- Foot-operated service brakes, acting on all 4 wheels with a split circuit. Disk brakes at front. Multiple oil-immersed disc brakes at rear. Negative hydraulic parking brake as standard. Electric pre-tensioned brake activates when accelerator pedal is released, with first stroke of brake pedal and reversing direction.
- Hydraulic steering as standard, operated via 3-spoke steering wheel and fixed on a height- and depth-adjustable steering column.
- 2 on-board operators. Various seat options, with seat belt, 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 10kW 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. Beacon light 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.
- 48V 480 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.



WEIGHT	1.1	Manufacturer			SIMAI S.p.A.
	1.2	Model			PE30
	1.3	Drive			electric
	1.4	Operator Type			sitting driver
	1.5	Load Capacity	Q	t	3
	1.5.1	Towing Capacity	Q	t	12
	1.7	Rated Drawbar pull	F	Ν	3000
	1.9	Wheelbase	Y	mm	1910
	2.1	Service weight (w/battery)		kg	3150
	2.2	Axle loading laden front/rear (with operator 80 kg. each)		kg	2600 / 3710
TIRES- CHASSIS	2.3	Axle loading unladen front/rear		kg	1900 / 1250
	3.1	Tyres:Cushion(Cu),Superelastic(SE), Pneus(Pn) Poliurethane (PE)			SE/Pn
	3.2	Tyre size front			6.50-10
	3.3	Tyre size rear			7.00-12
	3.5	Wheels nr. Front/Rear (X=motive)			2 / 2X
	3.6	Tread front	b ₁₀	mm	1115
DIMENSIONS	3.7	Tread rear	b ₁₁	mm	1256
	4.7	Height of roof/cabin	h ₆	mm	1900
	4.8	Seat height	h ₇	mm	900
	4.8.1	Step on platform height		mm	400
	4.12	Coupling height	h ₁₀	mm	425 - 480 - 535
	4.13	Loading height (min / MAX)	h ₁₁	mm	880
	4.16	Platform length	I ₃	mm	2450
	4.17	Rear overhang	I ₅	mm	913
	4.18	Platform width	b ₉	mm	1500
	4.19	Overall length	I,	mm	3853
	4.21	Overall width	b ₁	mm	1560
	4.32	Ground clearance - centre of wheelbase	m ₂	mm	150
	4.35	Turning radius front	Wa	mm	3600
	4.35.1	Turning radius rear		mm	2450
	4.36	Turning radius inner	b ₁₃	mm	1480
	4.36.1	Aisle width when turning 90°		mm	2850
PERFORMANCES	5.1	Travel speed laden/unladen		km/h	19 / 25
	5.5	Drawbar pull laden		N	2100
	5.5.1	Drawbar pull unladen		N	3000
	5.6	Max. Drawbar pull laden/unladen		Ν	- / 10500
	5.7	Gradeability laden/unladen		%	see chart
	5.8	Max. Gradeability laden/unladen		%	see chart
	5.10	Service / Parking brake (I=Hydraulic E=Electromagn. M=Mechanical)			171
	5.10.1	Type of service brake front/rear			disk / mult. disks
MOTOR	6.1	Drive motor rating S2=60 min		kW	2 x 10
	6.1.1	Hydrauling steering motor rating S2=60 min		kW	0,6 (Ac)
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			no
	6.4	Battery voltage	U	V	80
	6.4.1	Battery rated capacity	K ₅	Ah	480
	6.5	Battery weigth		kg	1310
	6.6	Energy consumption (EN 16796)		kWh/h	2,42
OTHER DATA	8.1	Drive Control			inverter AC
	8.4	Sound level at driver's ear according to DIN 12053		dB(A)	69
	8.5	Towing coupling, type DIN			-

<u>GRAPH 1.</u> 1 [%] = GRADIENT X ton - Y ton] = LOAD ON PLATFORM + TOWED LOAD F [N] = TRACTION FORCE SOLID CURVES: START & STOP ALLOWED

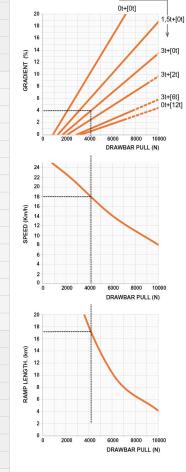
<u>GRAPH 2:</u> V0 [Km/h] = SPEED F [N] = TRACTION FORCE

TRAILERS WITH BRAKES ARE RECOMMENDED FOR LOADED DESCENTS. IF THIS IS NOT POSSIBLE, SPEED SHOULD BE LIMITED IN ACCORDANCE WITH OPERATING MANUAL.

<u>GRAPH 3:</u> s [Km] = RAMP LENGTH THAT CAN BE COVERED PER HOUR F [N] = TRACTION FORCE

LOAD ON PLATFORM+[TOWED LOAD] (Tons)

EXAMPLE OF CRAPH READING: - LOAD ON PLATFORM + TOWED LOAD = 3 t + [2t] - GRADIENT (0) = 4 % - TRACTION FORCE (F) = 4100 N - SPEED (10) = 16 km/h - MAX. RAMP LENGTH THAT CAN BE COVERED PER HOUR (S) = 17 km



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.

