

4-wheel electric tow tractor

TE252 / TE293

Towing capacity 25000 kg/ 29000 kg



4-wheel tow tractor, with on-board operator. Heavy-duty high-performance and long-range truck for industrial and airport duties. Despite its small size and turning radius, the **TE252** has a 25-tonne towing capacity. **TE293** version with 29-tonne towing capacity. Loading capacity of wide rear platform 200 kg.

- New **supporting perimeter chassis** ensures maximum exploitation of AC motor torque and optimum stability.
- **Suspensions:** steel coil springs, stabiliser bar and hydraulic shock absorbers in the front and in the rear.

- **Service brake pedal**, acting on 4 wheels - with twofold braking system. Front disk brakes and rear oil-bath multiple-disk brakes.

Standard negative hydraulic parking brake.

Preset electrical braking, operating automatically when accelerator pedal is released, with first stroke of brake pedal and when reversing direction.

- Standard hydraulic **steering**.
- **2 operators on board.** Comfortable driving position in the front ensures excellent front and rear visibility. Standard mechanical suspension seats. Easy access to driving position thanks to low step-on platform.
- **"Man on board" device** with pedal. Telemécanique pedal - optionally with seat occupancy sensor. Rear clearance lights. Horn.
- **Digital dashboard** with battery charge indicator, fault detection, speedometer, steering angle indicator, speed profile selection, odometer and hour meter.

- **2 new generation AC motors** directly integrated in the gearboxes, one for each wheel. Electronic differential system.
- **Electronic AC control** with energy recovery and braking during deceleration.
- Several towing hitches available. Rear inching control to ease coupling operations.
- DIN 43536A 80 V battery with 620 Ah capacity - fast vertical replacement.

Available options:

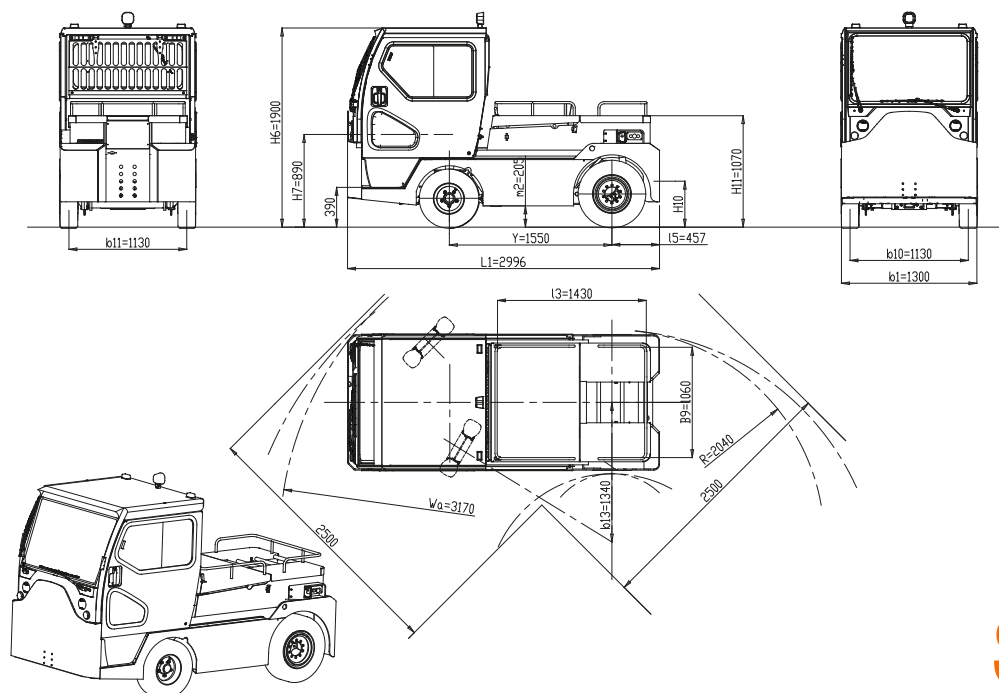
Pneumatic, superelastic or non-marking **tyres**. **Full cab** with sliding side doors, flat front windscreen, rear window, electric wiper, sun visor, integrated light system in the cabin with 2 front lights (dipped-beam/main-beam), 2 front turn indicators, rear lights on the back of the cab in high anti-collision position (position/brake/reversing lights/turn indicators), 2 exterior rearview mirrors – full-LED lights. Available also without doors, with canvas doors or hinged doors.

Electric **heater**; air conditioning (cooling).

Flashing light and blue safety light.

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

All parts are easy to access for fast and effective maintenance. Lower costs due to AC technology and modular design.



FEATURES	1.1	Manufacturer			SIMAI S.p.A.	SIMAI S.p.A.	
	1.2	Model			TE252	TE293	
	1.3	Drive			Electric	Electric	
	1.4	Operator Type			Sitting driver	Sitting driver	
	1.5	Load Capacity	Q	t	0,2	0,2	
	1.5.1	Towing Capacity	Q	t	25	29	
	1.7	Rated Drawbar pull	F	N	5800	5800	
	1.9	Wheelbase	Y	mm	1550	1550	
	WEIGHTS	2.1	Service weight (w/battery)		Kg	3670	4000
2.2		Axle loading laden front/rear (with operator 80 kg. each)		Kg	2231 / 1908	2220 / 2140	
2.3		Axle loading unladen front/rear		Kg	1900 / 1770	2020 / 1980	
TYRES - CHASSIS	3.1	Tyres:Cushion(Cu),Superelastic(SE), Pneus(Pn) Poliurethane (PE)			SE/Pn	SE/Pn	
	3.2	Tyre size front			6.50-10	6.50-10	
	3.3	Tyre size rear			7.00-12	7.00-12	
	3.5	Wheels nr. Front/Rear (X=motive)			2 / 2X	2 / 2X	
	3.6	Tread front	b ₁₀	mm	1130	1130	
	3.7	Tread rear	b ₁₁	mm	1130	1130	
	DIMANIONS	4.7	Height of roof/cabin	h ₆	mm	1900	1900
4.8		Seat height	h ₇	mm	890	890	
4.8.1		Step on platform height		mm	390	390	
4.12		Coupling height	h ₁₀	mm	310 - 380 - 450 - 520	310 - 380 - 450 - 520	
4.13		Loading height (min / MAX)	h ₁₁	mm	1070	1070	
4.16		Platform length	l ₃	mm	1430	1430	
4.17		Rear overhang	l ₅	mm	457	457	
4.18		Platform width	b ₉	mm	1060	1060	
4.19		Overall length	l ₁	mm	2996	2996	
4.21		Overall width	b ₁	mm	1300	1300	
4.32		Ground clearance - centre of wheelbase	m ₂	mm	205	205	
4.35		Turning radius front	Wa	mm	3170	3170	
4.35.1		Turning radius rear		mm	2040	2040	
4.36		Turning radius inner	b ₁₃	mm	1340	1340	
4.36.1		Aisle width when turning 90°		mm	2500	2500	
PERFORMANCES	5.1	Travel speed laden/unladen		Km/h	14 / 25	12 / 25	
	5.5	Drawbar pull laden		N	-	-	
	5.5.1	Drawbar pull unladen		N	5800	5800	
	5.6	Max. Drawbar pull laden/unladen		N	- / 18000	- / 20000	
	5.7	Gradeability laden/unladen		%	See chart	See chart	
	5.8	Max. Gradeability laden/unladen		%			
	5.10	Service / Parking brake (I=Hydraulic E=Electromagn. M=Mechanical)			I / I	I / I	
	5.10.1	Type of service brake front/rear			Disk / wet brakes	Disk / wet brakes	
	MOTOR	6.1	Drive motor rating S2=60 min		kW	2*10	2*10
		6.1.1	Hydrauling steering motor rating S2=60 min		kW	0,6	0,6
6.3		Battery according to DIN 43531 / 35 / 36 A, B, C, no			DIN 43536A	DIN 43536A	
6.4		Battery voltage	U	V	80	80	
6.4.1		Battery rated capacity	K _s	Ah	620	620	
6.5		Battery weighth		Kg	1565	1565	
6.6		Energy consumption (VDI cycle)		kWh/h	-	-	
OTHER DATA	8.1	Drive Control			inverter AC	inverter AC	
	8.4	Sound level at driver's ear according to DIN 12053		dB(A)	69	69	
	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 normal 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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