4-wheel electric tow tractor

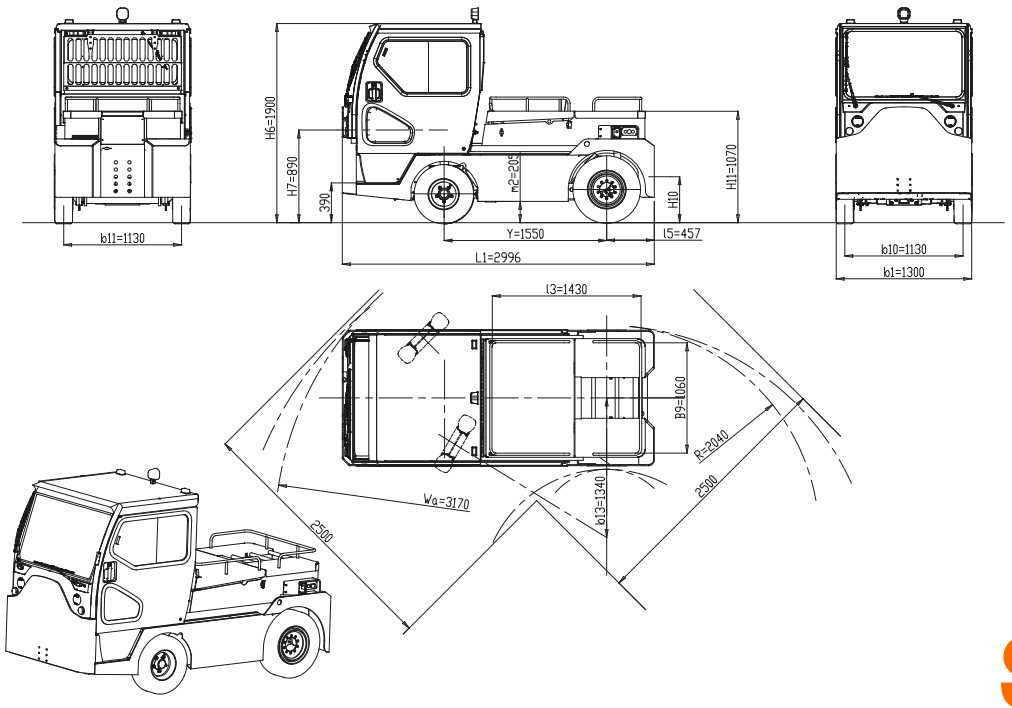
TE252

Towing Capacity 25000 kg

4-wheel tow tractor, man on board. Heavy-duty high-performance and long-range truck for industrial and airport handling duties. Despite its small size and turning radius, the TE252 has a high towing capacity and performances. Loading capacity of wide rear platform 200 kg.

- "Shock resistant" **supporting perimeter chassis** ensures maximum exploitation of AC motor torque and optimum stability.
- **Suspensions:** steel coil springs, stabiliser bar and shock absorbers in the front and in the rear.
- **Drum service brake** acting on 4 wheels - with twofold braking system. Front disk brakes and rear oil-bath multiple-disk brakes. Standard negative parking brake - mechanical lever-controlled parking brake available upon request. Preset electrical **braking**, operating automatically when accelerator pedal is released, with first stroke of brake pedal and on reversing direction.
- Standard hydraulic **steering.**
- **2 operators on board.** Driving position in the front ensures excellent rear and front visibility. Suspension seats. Easy access to driving position thanks to low step-on platform.
- **"Man on board" device** pedal controlled - under the seat upon request. Basic version with weather protection roof with front and rear windscreen and electric wipers-washer. PVC canvas doors or full cabin with hinged or sliding side doors available as options.
- **Lighting system:** 2 front lights (dipped-beam/main-beam), 2 front turn indicators, 2 rear turn indicators, 2 rear lights (position/brake lights), 2 reversing lights. Full LED technology. Flashing light and blue lights available upon request.
- **Digital dashboard** with battery charge indicator, fault detection, speedometer and hour meter. 24 V DC/DC converter for auxiliary services.
- **N. 2 powerful new generation AC motors** directly coupled with gear transmission on each wheel – with AC Inverter controlled differential.
- **Electronic speed control with AC Inverter** with energy recovery during deceleration and braking. Several towing hitches available. Rear inching control to ease coupling operations.
- **Battery** DIN 43536A 80 V 620 Ah fitted behind driving position for fast replacement from above.
- **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 a new concept of modular design.



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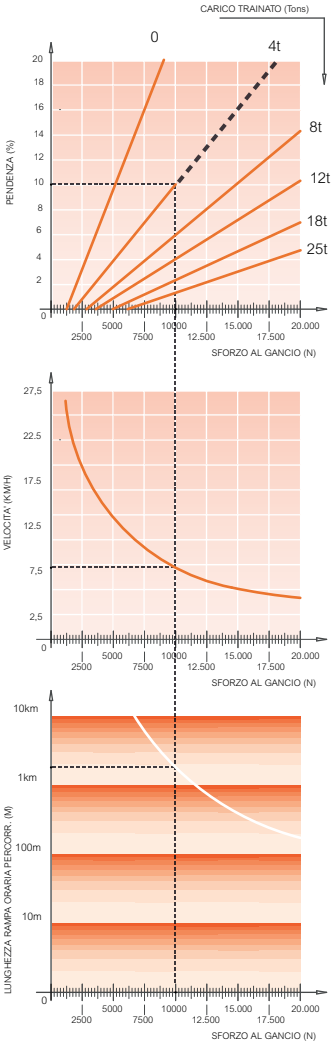
FEATURES	1.1	Manufacturer			SIMAI S.p.A.
	1.2	Model			TE252
	1.3	Drive			Electric
	1.4	Operator Type			Sitting driver
	1.5	Load Capacity	Q	t	0,2
	1.5.1	Towing Capacity	Q	t	25
	1.7	Rated Drawbar pull	F	N	5800
	1.9	Wheelbase	Y	mm	1550
WEIGHT	2.1	Service weight (w/battery)		Kg	3670
	2.2	Axle loading laden front/rear (with operator 80 kg. each)		Kg	2231 / 1908
	2.3	Axle loading unladen front/rear		Kg	1900 / 1770
TIRES, CHASSIS	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	1130
	3.7	Tread rear	b_{11}	mm	1130
DIMENSIONS	4.7	Height of roof/cabin	h_6	mm	1900
	4.8	Seat height	h_7	mm	890
	4.8.1	Step on platform height		mm	390
	4.12	Coupling height	h_{10}	mm	310 - 380 - 450 - 520
	4.13	Loading height (min / MAX)	h_{11}	mm	1070
	4.16	Platform length	l_3	mm	1430
	4.17	Rear overhang	l_5	mm	457
	4.18	Platform width	b_9	mm	1060
	4.19	Overall length	l_1	mm	2996
	4.21	Overall width	b_1	mm	1300
	4.32	Ground clearance - centre of wheelbase	m_2	mm	205
	4.35	Turning radius front	Wa	mm	3170
	4.35.1	Turning radius rear		mm	2040
	4.36	Turning radius inner	b_{13}	mm	1340
	4.36.1	Aisle width when turning 90°		mm	2500
PERFORMANCES	5.1	Travel speed laden/unladen		Km/h	14 / 25
	5.5	Drawbar pull laden		N	-
	5.5.1	Drawbar pull unladen		N	5800
	5.6	Max. Drawbar pull laden/unladen		N	18000
	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)			I / M
	5.10.1	Type of service brake front/rear			Disks / Wet brakes
MOTOR	6.1	Drive motor rating S2=60 min		kW	2*10
	6.1.1	Hydrauling steering motor rating S2=60 min		kW	0,6
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			DIN 43536A
	6.4	Battery voltage	U	V	80
	6.4.1	Battery rated capacity	K_5	Ah	**620**
	6.5	Battery weigth		Kg	**1565**
	6.6	Energy consumption (VDI cycle)		kWh/h	-
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			-

ESEMPIO DI LETTURA DIAGRAMMA
CARICO TRAINATO = 4 TONS
PENDENZA = 10 %
SFORZO AL GANCIO = 10.000 N
VELOCITA' = 8 Km/h
MAX RAMPA ORARIA PERCORRIBILE = 1800 m



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 pneumatic tires. Some data can vary according to different equipments.

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