

3-wheel electric tow tractor

TTE100

Towing capacity 10000 kg



3-wheel tow tractor, with on-board operator and rear-wheel drive. Extremely easy to drive, ideal for all heavy duties - both indoors and outdoors. "AGV ready".

- "Shock resistant" **supporting perimeter chassis** ensures maximum exploitation of AC motor torque.
- **Suspensions:** rubberised steel coil spring in the front, steel coil springs with shock absorbers in the rear.
- **Drum service brake** acting on 3 wheels with twofold braking system. Electromagnetic parking brake. Preset electrical braking, operating automatically when accelerator pedal is released, with first stroke of brake pedal and when reversing direction.
- Fifth wheel "**steer-by-wire**" **electric steering**.
- **1 operator on board.** Optimised driving position for maximum comfort and efficiency, low step-on platform for comfortable access as well as user-friendly and ergonomic dashboard.
- "**Man on board**" device with seat occupancy sensor.
- **Lighting system:** 2 front lights (position/dipped-beam/main-beam), 2 front turn indicators, 2 rear turn indicators, 2 rear lights (position/brake lights). Horn.
- **Digital dashboard** with battery charge indicator, fault detection, speedometer and hour meter.
- 24 V DC/DC converter for auxiliary services.

- **2 AC motors** equipped with encoder, thermal probes and negative electromagnetic parking brake. Electronic differential for optimal torque management also in turning manoeuvres.
- **Electronic AC control** with energy recovery and braking during deceleration.
- Several towing hitches available. Rear inching control to ease coupling operations.
- DIN 43531A 48 V battery – available capacity 420Ah, 460Ah and 500Ah.

Available options:

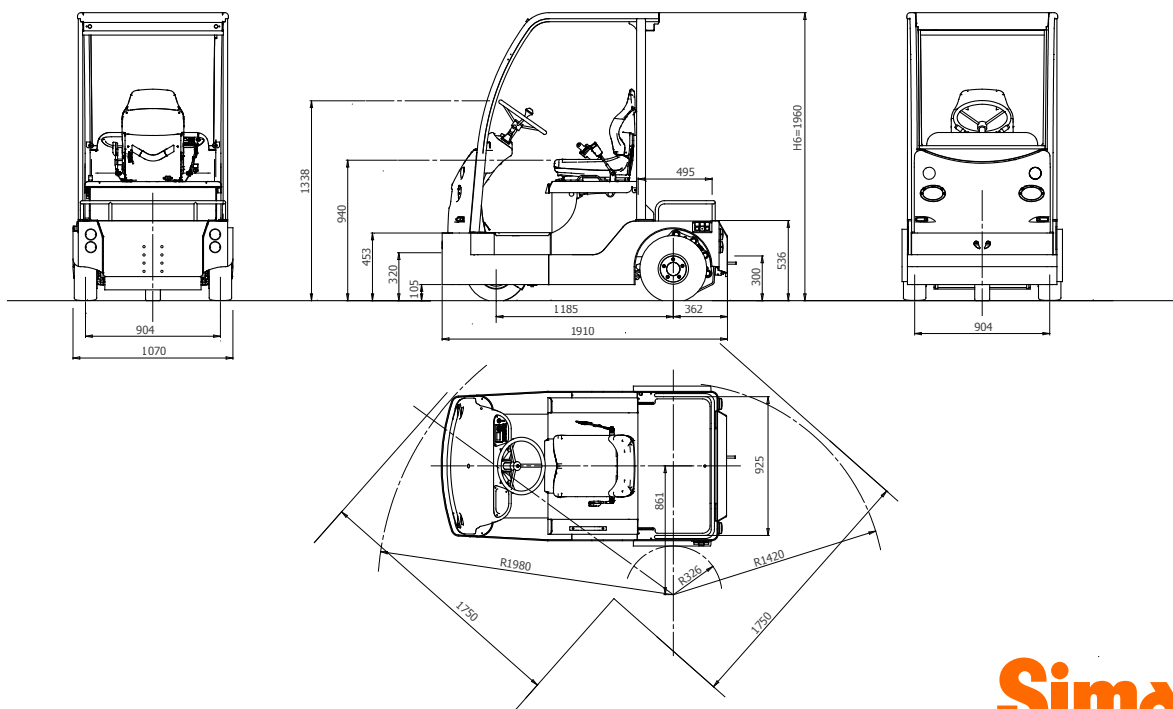
Pneumatic, superelastic or non-marking **tyres**. **Standard version without roof and cab**, available with **weather protection roof** with front windscreen, electric wiper, front and rear lights (position/brake/reversing lights/turn indicators), 2 small exterior rearview mirrors - full-LED lights; available also with canvas doors or with **full cab with hinged side doors**.

Electric heating.

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.
	1.2	Model			TTE100
	1.3	Drive			Electric
	1.4	Operator Type			Seated
	1.5	Load Capacity	Q	t	0,1
	1.5.1	Towing Capacity	Q	t	10
	1.7	Rated Drawbar pull	F	N	2200
	1.9	Wheelbase	Y	mm	1264
	WEIGHTS	2.1	Service weight (w/battery)		Kg
2.2		Axle loading laden front/rear (with operator 80 kg. each)		Kg	-
2.3		Axle loading unladen front/rear		Kg	585 / 785
TYRES - CHASSIS	3.1	Tyres:Cushion(Cu),Superelastic(SE), Pneus(Pn) Poliurethane (PE)			SE/PN
	3.2	Tyre size front			4.00-8
	3.3	Tyre size rear			18x7-8
	3.5	Wheels nr. Front/Rear (X=motive)			1/2X
	3.6	Tread front	b ₁₀	mm	-
	3.7	Tread rear	b ₁₁	mm	934
	DIMENSIONS	4.7	Height of roof/cabin	h ₆	mm
4.8		Seat height	h ₇	mm	880
4.8.1		Step on platform height		mm	453
4.12		Coupling height	h ₁₀	mm	245 - 300 - 355
4.13		Loading height (min / MAX)	h ₁₁	mm	580
4.16		Platform length	l ₃	mm	650
4.17		Rear overhang	l ₅	mm	371
4.18		Platform width	b ₉	mm	900
4.19		Overall length	l ₁	mm	1996
4.21		Overall width	b ₁	mm	1090
4.32		Ground clearance - centre of wheelbase	m ₂	mm	105
4.35		Turning radius front	Wa	mm	2077
4.35.1		Turning radius rear		mm	1495
4.36		Turning radius inner	b ₁₃	mm	919
4.36.1		Aisle width when turning 90°		mm	1800
PERFORMANCES	5.1	Travel speed laden/unladen		Km/h	8,5 / 18
	5.5	Drawbar pull laden		N	-
	5.5.1	Drawbar pull unladen		N	2200
	5.6	Max. Drawbar pull laden/unladen		N	8000
	5.7	Gradeability laden/unladen		%	4/35%
	5.8	Max. Gradeability laden/unladen		%	
	5.10	Service / Parking brake (I=Hydraulic E=Electromagn. M=Mechanical)			I / E
	5.10.1	Type of service brake front/rear			Drum/drum
MOTOR	6.1	Drive motor rating S2=60 min		kW	2 x 6,6
	6.1.1	Hydrauling steering motor rating S2=60 min		kW	-
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			43531 A
	6.4	Battery voltage	U	V	48
	6.4.1	Battery rated capacity	K _s	Ah	420-460-500
	6.5	Battery weight		Kg	667-700-731
	6.6	Energy consumption (VDI cycle)		kW	-
OTHER DATA	8.1	Drive Control			inverter AC
	Varie	Sound level at driver's ear according to DIN 12053		dB(A)	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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