3-wheel electric tow tractor TTE 100

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:

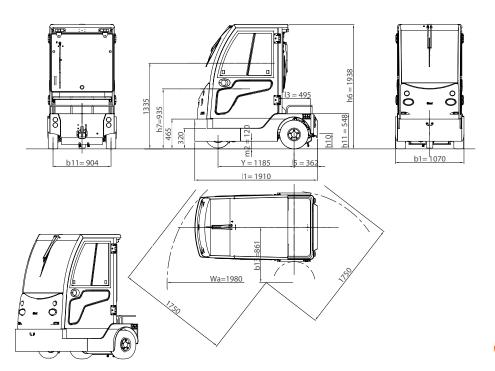
Pneumatic, superelastic or non-marking tyres. Standard version without roof and cab, available with weather protection roof with front windscreen, electric wiper, front and rear lights (position/brake/reversing lights/turn indicators), 2 small exterior rearview mirrors - full-LED lights; available also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





						GRAPH 1:
1.1	1	Manufacturer			SIMAI S.p.A.	i [%] = GRADIENT Mtr [ton] = TOWED LOAD
1.2	2	Model			TTE100	F [N] = TRACTION FORCE SOLID CURVES: START & STOP ALLOWED
ر _م 1.3	3	Drive			electric	GRAPH 2: V0 [Km/h] = SPEED
1.4	1	Operator Type			sitting driver	F [N] = TRACTION FORCE TRAILERS WITH BRAKES ARE RECOMMENDED FOR
1.5	5	Load Capacity	Q	t	0,1	DESCENTS. IF THIS IS NOT POSSIBLE, SPEED SHOU LIMITED IN ACCORDANCE WITH OPERATING MANUA
1.5	5.1	Towing Capacity (S2=60' / S2=30')	Q	t	10	GRAPH 3: s [Km] = RAMP LENGTH THAT CAN BE COVERED PE
1.7	7	Rated Drawbar pull	F	N	2200	F [N] = TRACTION FORCE
1.9	9	Wheelbase	Υ	mm	1185	EXAMPLE OF GRAPH READING: - TOWED LOAD (Mtr) = 4 t - GRADIENT (i) = 3 %
2.1	1	Service weight (w/battery)		kg	1475	- TRACTION FORCE (F) = 2900 N - SPEED (V0) = 8 km/h - MAX. RAMP LENGTH THAT CAN BE COVERED PER
2.1	2	Axle loading laden front/rear (with operator 80 kg. each)		kg	639 / 1016	(s) = 7,5 km
2.3	3	Axle loading unladen front/rear		kg	609 / 866	
3.1	1	Tyres:Cushion(Cu),Superelastic(SE), Pneus(Pn) Poliurethane (PE)			SE/Pn	
3.2 3.3 3.5 3.6	2	Tyre size front			4.00 - 8 (SE)	TOWED LOAD (tor
3.3	3	Tyre size rear			18x7-8	Mtr[t]0 Mtr[t]1 Mtr[t]2
3.5	5	Wheels nr. Front/Rear (X=motive)			1 / 2X	18
3.6	6	Tread front	b ₁₀	mm	-	16
3.7	7	Tread rear	b ₁₁	mm	904	8 12 / Accept
4.7		Height of roof/cabin	h ₆	mm	1938	10 10 Mapping 10 10 Mapping 10 Ma
4.8		Seat height	h ₇	mm	935	6
4.8		Step on platform height	- /	mm	465	4 ///
4.1		Coupling height	h ₁₀	mm	245 - 300 - 355	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4.1		Loading height (min / MAX)	h ₁₁	mm	548	0 2000 4000 6000 8000 DRAWBAR PULL (N
4.1		Platform length	I ₃	mm	495	20
		Rear overhang	I ₅	mm	362	18
4.1		Platform width	b ₉	mm	925	14
4.1		Overall length	I ₁	mm	1910	8 B 8 8
5 4.2		Overall width	b ₁	mm	1070	8
4.3		Ground clearance - centre of wheelbase		mm	120	6
4.3		Turning radius front	m ₂ Wa	mm	1980	2
4.3			vva		1420	0 2000 4000 6000 8000
4.3		Turning radius rear	b	mm	861	DRAWBAR PULL (N
		Turning radius inner	b ₁₃	mm		20
4.3		Aisle width when turning 90°		mm	1750	16
5.1		Travel speed laden/unladen		km/h	8,5 / 18	<u><u><u></u><u><u><u></u><u><u></u><u><u></u><u><u></u></u> 14</u></u></u></u></u></u>
5.5		Drawbar pull laden		N	-	를 12 일 10
5.5		Drawbar pull unladen		N	2200	RAMP LENGTH 8 8 11 12 12 12 12 12 12 12 12 12 12 12 12
5.6		Max. Drawbar pull laden/unladen		N	8000	₹ 6 4
5.5 5.6 5.7 5.8		Gradeability laden/unladen		%	-	2
		Max. Gradeability laden/unladen		%	-	0 2000 4000 6000 8000
5.1		Service / Parking brake (I=Hydraulic E=Electromagn. M=Mechanical)			I/E	DRAWBAR PULL (N
	10.1	Type of service brake front/rear		1.3.47	drum / mult. disks	
6.1		Drive motor rating \$2.60 min		kW	2x6,6	
6.1		Hydrauling steering motor rating S2 60 min		kW	42504.4	
6.3		Battery according to DIN 43531 / 35 / 36 A, B, C, no	, ,	1.7	43531 A	
6.4		Battery voltage	U	V	48	
6.4		Battery rated capacity	K ₅	Ah	420 - 460 - 500	
6.5		Battery weigth		kg	667 - 700 - 731	
6.6		Energy consumption (EN 16796)		kWh/h	3,22	
8.1		Drive Control			inverter AC	
8.4 8.5		Sound level at driver's ear according to DIN 12053		dB(A)	69	
8.5	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 pneumatic tires. Some data can vary according to different equipments.











