4-wheel electric tow tractor

TE80

Towing Capacity 8000 Kg



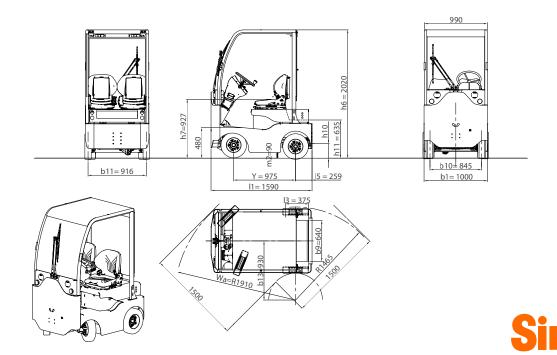
4-wheel tow tractor, man on board, with rear-wheel drive. Extremely compact and easy to drive, ideal for all industrial duties - both indoors and outdoors, even on long distances.

Loading capacity of rear platform 100 kg.

- "Shock resistant" **supporting perimeter chassis** ensures maximum exploitation of induction motor torque.
- Complete automotive lighting and signal system. Led lights.
- Suspensions: rubberised steel coil springs in the front, steel coil springs with shock absorbers in the rear.
- Drum service brake acting on 4 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 on reversing direction.
- Mechanical steering. Hydraulic steering available upon request.
- 1 operator on board. Optimised driving position for maximum comfort and efficiency as well as user-friendly and ergonomic dashboard. Passenger seat available upon request.
- "Man on board" device with seat occupancy sensor. Available
 in basic version, with weather protection roof with front
 windscreen and electric wipers. PVC canvas doors or cab with
 hinged side doors available.

- Lighting system: 2 front lights (dipped-beam/main-beam), 2 front turn indicators, 2 rear turn indicators, 2 rear lights (position/brake lights). Full LED technology. Horn. Flashing light, reversing 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.
- Induction motor equipped with encoder, thermal probes and negative electromagnetic parking brake with manual brake disengage lever.
- Electronic speed control of AC motor with energy recovery during deceleration and braking. Several towing hitches available. Rear inching control to ease coupling operations.
- Battery DIN 43531A 48 V available capacity 315Ah, 345Ah and 375Ah.
 - 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.



Mtr[t]2

Mtr[t]3

Mtr[t]5 Mtrft18

GRAPH 1:
i [%] = GRADIENT
Mtr [ton] = TOWED LOAD
F [N] = TRACTION FORCE
SOLID CURVES: START & STOP ALLOWED

	4.4	Manufacture			CINAAL C A
	1.1	Manufacturer			SIMAI S.p.A.
	1.2	Model			TE80
FEATURES	1.3	Drive			electric
	1.4	Operator Type			sitting driver
-EAI	1.5	Load Capacity	Q	t	0,1
	1.5.1	Towing Capacity (S2=60' / S2=30')	Q	t	8
	1.7	Rated Drawbar pull	F	N	1900
	1.9	Wheelbase	Y	mm	975
=	2.1	Service weight (w/battery)		kg	1229
WEIGH	2.2	Axle loading laden front/rear (with operator 80 kg. each)		kg	614 / 795
>	2.3	Axle loading unladen front/rear		kg	584 / 645
	3.1	Tyres:Cushion(Cu),Superelastic(SE), Pneus(Pn) Poliurethane (PE)			SE/Pn
IIKEV, CHAVVIV	3.2	Tyre size front			4.00 - 8
Ž Ļ	3.3	Tyre size rear			4.00 - 8
νί Ο	3.5	Wheels nr. Front/Rear (X=motive)			2 / 2X
2	3.6	Tread front	b ₁₀	mm	845
	3.7	Tread rear	b ₁₁	mm	916
	4.7	Height of roof/cabin	h ₆	mm	2020
	4.8	Seat height	h ₇	mm	927
	4.8.1	Step on platform height	,	mm	480
	4.12	Coupling height	h ₁₀	mm	265 - 320 - 375
	4.13	Loading height (min / MAX)	h ₁₁	mm	635
	4.16	Platform length	I ₃	mm	375
0	4.17	Rear overhang	I ₅	mm	259
0	4.18	Platform width	b ₉	mm	640
	4.19	Overall length	I ₁	mm	1590
ב	4.21	Overall width	b ₁	mm	1000
	4.32	Ground clearance - centre of wheelbase	m ₂	mm	90
	4.35	Turning radius front	Wa	mm	1910
	4.35.1	Turning radius rear	****	mm	1465
	4.36	Turning radius inner	b ₁₃	mm	930
	4.36.1	Aisle width when turning 90°	D ₁₃	mm	1500
	5.1	Travel speed laden/unladen		km/h	9 / 16
	5.5	Drawbar pull laden		N N	9/10
Ŋ				N	1900
2	5.5.1	Drawbar pull ladon/upladen			
	5.6	Max. Drawbar pull laden/unladen		N %	- / 6200
FERFORMANCES	5.7	Gradeability laden/unladen			see chart
<u>т</u>	5.8	Max. Gradeability laden/unladen		%	see chart
	5.10	Service / Parking brake (I=Hydraulic E=Electromagn. M=Mechanical)			I/E
	5.10.1	Type of service brake front/rear		1/1/1	drum / drum 5
	6.1	Drive motor rating S2 60 min Hydrauling steering motor rating S2 60 min		kW	
MOTOR	6.1.1	, , , ,		kW	0,55
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no	11	1/	43531 A
2	6.4	Battery voltage	U	V	48
	6.4.1	Battery rated capacity	K ₅	Ah	315 - 345 - 375
	6.5	Battery weigth		kg	536 - 550 - 580
	6.6	Energy consumption (EN 16796)		kWh/h	2,59
OTHER	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			-

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.







