movexx
smart electric tugs

ENG

Commercial Datasheet

2025 v1

made in the Netherlands

TT2500-S-AT Electric Tug M010

The all-round powerhouse

In the constantly changing world of industrial innovation, the TT2500-S-AT electric tug shines as a symbol of efficiency, sustainability, and versatility. Engineered to transform both indoor and outdoor material handling, this versatile electric tug is set to change how industries tackle the challenge of transporting heavy loads in various settings.

Performance

At the heart of the TT2500-S-AT is a robust electric drive system that delivers an unmatched combination of power and accuracy. The powerful electric motor ensures smooth, controlled movements, allowing operators to easily navigate through tight spaces. With a towing capacity of up to 2,500kg (5,500lbs), this smart electric tug is equipped for a variety of tasks, from moving waste containers, caravans, trailers and machinery on construction sites to effortlessly transporting goods in warehouses.

Comfort

The TT2500-S-AT is more than just a standard tug; it's a versatile outdoor powerhouse designed to excel in diverse environments. Whether navigating uneven terrain, crossing gravel surfaces, or managing inclines with ease, this electric tug is built for adaptability. Its robust design and durable construction make it a dependable asset for construction sites, manufacturing plants, airports, and more.

Reliability

In a world where sustainability is a top priority, the TT2500-S-AT electric tug stands at the forefront. Its all-electric design eliminates emissions and reduces noise pollution, fostering a more environmentally friendly workspace. The tugs energy-efficient engineering ensures a longer battery life, enabling extended operation on a single charge. This not only lowers operational costs but also supports a greener, more sustainable future. Furthermore, the TT2500-S-AT is built with a focus on reliability. With the TT2500-S-AT, you can count on dependable, eco-friendly operations day in and day out.

Safety

Safety is a paramount concern in any industrial setting, and the TT2500-S-AT addresses this with a comprehensive set of safety features. From emergency braking systems to the safety reverse switch, every aspect of this electric tug is designed to prioritize the well-being of operators and bystanders alike. The tugs stability and Drive Control Lever further enhance its safety profile, making it a reliable choice for challenging outdoor environments.

STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD
- 4.5 km/h (2.8 mph) travel speed
- Automatic parking brake
- Pneumatic drive wheels
- AGM battery 24V, 80Ah
- Safety reverse switch on tiller head
- High-precision digital battery indication plus hour meter

OPTIONAL
- Strobe light
- Solid drive wheels and front wheel (non-marking)
- Electric hinge device for standard hooks
- Hitch for trash bins
- Lift system stroke 150mm (6 in.)
- Weight package for more traction if needed
- Remote control up to 50m (165 ft)
- Foam-filled front wheel

Features

Frame
- Metal components are made from double coated steel;
- Robust metal cover protects drive system and components;
- The tillerhead ensures the operator is at a safe yet comfortable distance from the tug;
- Top of the frame equipped with sealing rubber to protect electronics under the hood from moisture;
- Charging connector on the exterior of the machine with a protective cap for additional protection.

Braking system
- Direct forceful braking by reversing traction switch;
- Smooth braking by releasing Drive Control Lever;
- Immediate full braking by pressing the emergency stop;
- Directly reversing drive direction by hitting the safety reverse switch;
- Tillerhead safety switch direct forceful braking.

Battery
- 80Ah AGM battery with integrated battery management system;
- Ensures precise battery indication and optimal running time;
- Average 6-hour drive time on single charge.

External charger
- Optimized charging process for maximum energy efficiency and lower energy costs;
- High performance: optimal use of battery capacity;
- Easy plug connection and fast charging. Input: 100-240Vac. Output: 24Vdc, 20A.

Controls & Display
- Multiple control switches grouped on ergonomic tiller head;
- DCL; Drive Control Lever usable for left and right-handed;
- Safety reverse switch on top of tiller head for optimal operator safety;
- Reliable and precise battery indicator with hour counter.

TECHNICAL DATA TT2500-S-AT M010

According to VDI 2198 in Metric units.

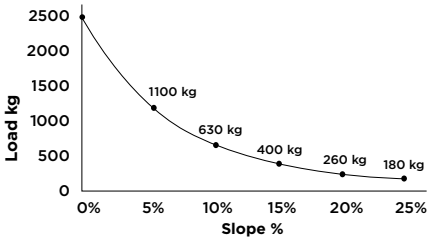
Characteristics	**1.1**	Manufacturer			Movexx International B.V.
	1.2	Manufacturer's type designation			TT2500-S-AT M010
	1.3	Drive			Electric with AGM battery
	1.4	Operator type			Pedestrian
	1.5*	Rated capacity/rated load		Q [t]	2.5
	1.7**	Rated drawbar pull		F [N]	620
	1.9	Wheelbase		y [mm]	805
Wt	**2.1**	Weight incl. battery and weight packages		kg	300
	2.3	Axle load without load	front/rear	kg	181/119
Tyres/Chassis	**3.1**	Tyres			Foam filled/Pneumatic
	3.2	Tyres size	front	mm	260x85
	3.3	Tyres size	rear	mm	406x165
	3.4	Auxiliary wheels size		mm	-
	3.5	Wheels, number (x = driven)	front/rear		1/x2
	3.6	Tread	front/rear	b_{10}/b_{11} [mm]	-/682
Dimensions	**4.9**	Tiller height	min./max.	h_{14} [mm]	710-1205
	4.12	Tow coupling height		h_{10} - h_{11}[mm]	135-310
	4.19	Total length		l_1 [mm]	1205
	4.21	Total width		b_1 [mm]	852
	4.32	Ground clearance, center of wheel base		m_2 [mm]	95
	4.35	Turning radius		Wa [mm]	1250
Performance	**5.1**	Travel speeds	with/without load	km/h	4/4.5
	5.1.1	Travel speed backwards	with/without load	km/h	3/3.5
	5.5**	Max drawbar pull (S2 = 60 min)	with/without load	N	620
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load	N	1350
	5.8*	Maximum slope (5 min)	with/without load	%	0/24
	5.9	Acceleration	with/without load	s	8/6
	5.10	Service brake			Electromagnetic
Drive	**6.1**	Drive motor output (S2 = 60 min)		kW	0.8
	6.4	Battery voltage/rated capacity		V/Ah	24/80
	6.5	Battery weight +/- 5%		kg	47
Other	**8.1**	Drive control			DC
	10.7	Sound level at operator's ear		dB(A)	<65

* The maximum payload is affected by the type of slope, operating time and floor type. See the graphic below for an indication of the allowable slope to load ratio (depending on slope surface/wheel type/machine weight).

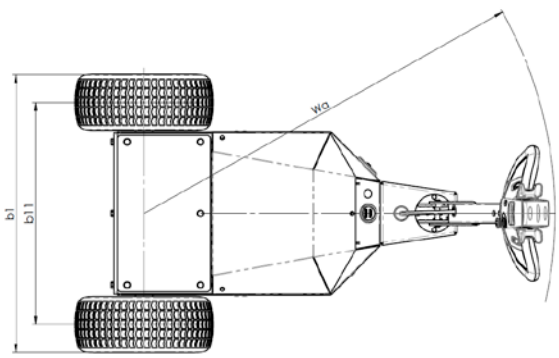
** The maximum drawbar load on the hook [N] is determined by the engine power of the machine but is affected by the type of wheels of the machine and of the towed trolley/load, the type of surface and the drivable weight of the machine.

*** All values in this table have a tolerance of +/- 5%.

Machine capacity



Maximum allowable load rear side 500kg included machine weight.



TECHNICAL DATA TT2500-S-AT M010

According to VDI 2198 in Imperial units.

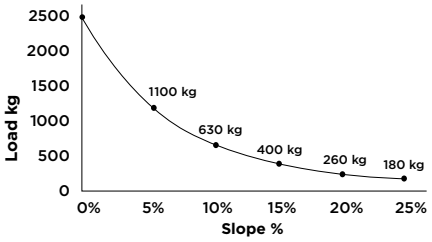
Characteristics	**1.1**	Manufacturer			Movexx International B.V.
	1.2	Manufacturer's type designation			TT2500-S-AT M010
	1.3	Drive			Electric with AGM battery
	1.4	Operator type			Pedestrian
	1.5*	Rated capacity/rated load		Q [tn(US)]	2.7
	1.7**	Rated drawbar pull		F [lbf]	140
	1.9	Wheelbase		y [in]	31.5
Wt	**2.1**	Weight incl. battery and weight packages		lb	661
	2.3	Axle load without load	front/rear	lb	399/262
Tyres/Chassis	**3.1**	Tyres			Foam filled/Pneumatic
	3.2	Tyres size	front	in	10.2x3.3
	3.3	Tyres size	rear	in	16x6.5
	3.4	Auxiliary wheels size		in	-
	3.5	Wheels, number (x = driven)	front/rear		1/x2
	3.6	Tread	front/rear	b_{10}/b_{11} [in]	-/27
Dimensions	**4.9**	Tiller height	min./max.	h_{14} [in]	28-47.5
	4.12	Tow coupling height		h_{10} [in]	5.5-12
	4.19	Total length		l_1 [in]	47.5
	4.21	Total width		b_1 [in]	33.5
	4.32	Ground clearance, center of wheel base		m_2 [in]	3.7
	4.35	Turning radius		Wa [in]	49
Performance	**5.1**	Travel speeds	with/without load	mph	2.5/2.8
	5.1.1	Travel speed backwards	with/without load	mph	1.9/2.2
	5.5**	Max drawbar pull (S2 = 60 min)	with/without load	lbf	140
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load	lbf	304
	5.8*	Maximum slope (5 min)	with/without load	%	0/24
	5.9	Acceleration	with/without load	s	8/6
	5.10	Service brake			Electromagnetic
Drive	**6.1**	Drive motor output (S2 = 60 min)		hp	1.07
	6.4	Battery voltage/rated capacity		V/Ah	24/80
	6.5	Battery weight +/- 5%		lb	104
Other	**8.1**	Drive control			DC
	10.7	Sound level at operator's ear		dB(A)	<65

* The maximum payload is affected by the type of slope, operating time and floor type. See the graphic below for an indication of the allowable slope to load ratio (depending on slope surface/wheel type/machine weight).

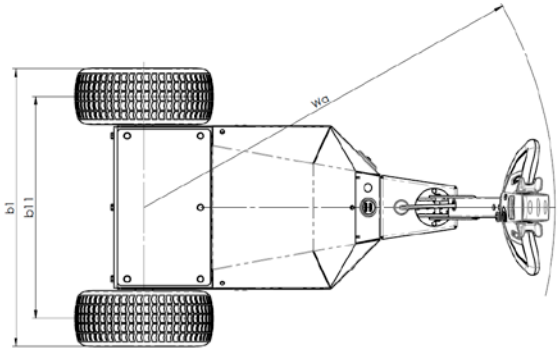
** The maximum drawbar load on the hook [lbf] is determined by the engine power of the machine but is affected by the type of wheels of the machine and of the towed trolley/load, the type of surface and the drivable weight of the machine.

*** All values in this table have a tolerance of +/- 5%.

Machine capacity



Maximum allowable load rear side 500kg included machine weight.



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