



## Unleashing the Future: TT3500-S-AT Electric Tug M010

### Your All-Purpose Outdoor Companion

In the ever-evolving landscape of industrial innovation, the TT3500-S-AT electric tug stands tall as a beacon of efficiency, sustainability and adaptability. Designed to revolutionize indoor and outdoor material handling, this all-purpose electric tug is ready to redefine the way industries approach the challenges of moving heavy loads in diverse environments.

#### Power and Precision

The heart of the TT3500-S-AT is a robust electric drive train, providing an unparalleled combination of strength and precision. The powerful electric motor ensures a smooth and controlled movement, allowing operators to navigate tight spaces with ease. With a towing capacity of up to 3,500 kg (7,700 lbs), this electric tug is ready to tackle a wide range of tasks, from manoeuvring heavy equipment on construction sites to effortlessly transporting goods across warehouses.

#### Adaptability in the Great Outdoors

The TT3500-S-AT is not just a mere tug; it's a versatile outdoor workhorse that thrives in various environments. Whether it's conquering uneven terrains, traversing gravel-covered surfaces or handling inclines with finesse, this electric tug is engineered for adaptability. Its rugged design and durable construction make it a reliable companion in construction sites, manufacturing plants, airports and beyond.

#### Eco-Friendly Efficiency

In a world where sustainability is a non-negotiable priority, the TT3500-S-AT electric tug is leading the way. Its all-electric nature not only eliminates emissions but also reduces noise

pollution, creating a more environmentally friendly workspace. The tug's energy-efficient design ensures a longer battery life, allowing for extended operation on a single charge. This not only lowers operational costs but also contributes to a greener, more sustainable future.

#### Safety First

Safety is a paramount concern in any industrial setting, and the TT3500-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 tug's stability and Drive Control Lever further enhance its safety profile, making it a reliable choice for challenging outdoor environments.

#### Conclusion

The TT3500-S-AT electric tug is not just a machine; it's a solution to the evolving needs of industries seeking efficiency, adaptability and sustainability. As we navigate the challenges of the future, this all-purpose electric tug stands as a testament to the power of innovation in outdoor material handling. It's time to embrace the future of industrial mobility with the TT3500-S-AT electric tug – your all-purpose outdoor companion.

## STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

### STANDARD

- 4.5 km/h (2.8 mph) travel speed
- Automatic parking brake
- Pneumatic drive wheels
- LiFePO<sub>4</sub> battery 24V, 120Ah
- 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
- 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

- 120Ah lithium LiFePO<sub>4</sub> 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 TT3500-S-AT M010

According to VDI 2198 in Metric units.

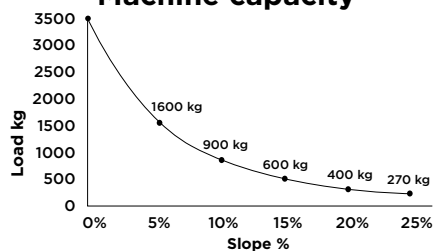
Characteristics	1.1	Manufacturer			Movexx International B.V.
	1.2	Manufacturer's type designation			TT3500-S-AT M010
	1.3	Drive			Electric with LiFePO <sub>4</sub> battery
	1.4	Operator type			Pedestrian
	1.5*	Rated capacity/rated load	Q [t]	3.5	
	1.7**	Rated drawbar pull	F [N]	640	
	1.9	Wheelbase	y [mm]	867	
Wt	2.1	Weight incl. battery	kg	385	
	2.3	Axle loading, without load	front/rear	kg	148/237
Tyres/Chassis	3.1	Tyres	front/rear	Pneumatic	
	3.2	Tyres size	front	mm	260x85
	3.3	Tyres size	rear	mm	406x165
	3.5	Wheels, number (x = driven)	front/rear	1/x2	
	3.6	Tread	front/rear	b <sub>10</sub> /b <sub>11</sub> [mm]	-/682
Dimensions	4.9	Tiller height	min-max	h <sub>14</sub> [mm]	680-1130
	4.12	Tow coupling height	min-max	h <sub>10</sub> [mm]	135-310
	4.19	Overall length		l <sub>1</sub> [mm]	1205
	4.21	Overall width		b <sub>1</sub> [mm]	852
	4.32	Ground clearance, center of wheel base		m <sub>2</sub> [mm]	95
Performance	5.1	Travel speeds forwards	with/without load	km/h	4.5/5
	5.1.1	Travel speed backwards	with/without load	km/h	3.5/4
	5.5**	Max drawbar pull (S2 = 60 min)	with load	N	640
	5.6**	Max drawbar pull (S2 = 5 min)	with load	N	1610
	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	1.5	
	6.4	Battery voltage/nominal capacity	V/Ah	24/120	
	6.5	Battery weight +/- 5%	kg	34	
Other	8.1	Type of drive unit		AC	
	10.7	Sound level at operator's ear	dB(A)	<60	

\* 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).

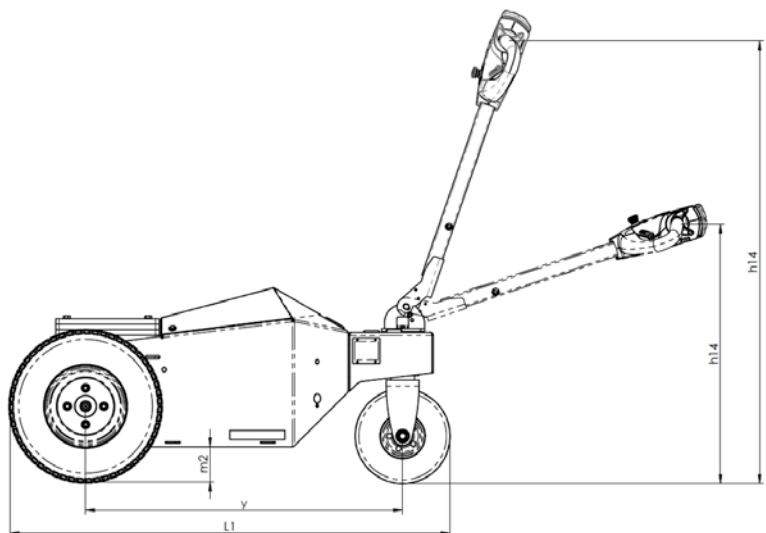
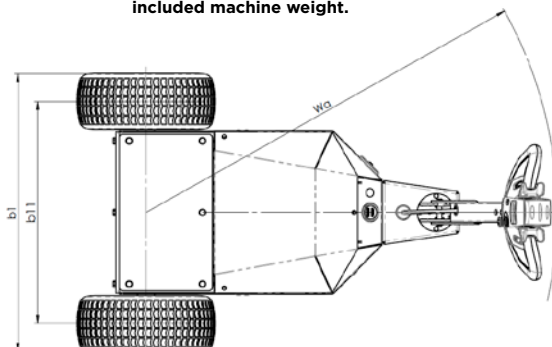
\*\* The maximum drawbar load on the hook [N] is determined by the engine power of the machine but is affected by the type of wheels of the machine and of the towed trolley/load, the type of surface and the drivable weight of the machine.

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

## Machine capacity



Maximum allowable load rear side 500kg included machine weight.



# TECHNICAL DATA TT3500-S-AT M010

According to VDI 2198 in Imperial units.

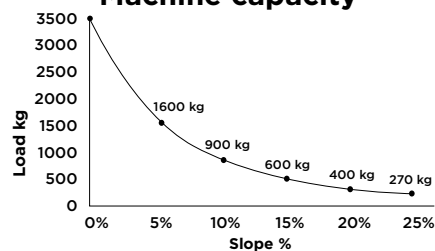
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	1.2	Manufacturer's type designation		TT3500-S-AT M010
	1.3	Drive		Electric with LiFePO <sub>4</sub> battery
	1.4	Operator type		Pedestrian
	1.5*	Rated capacity/rated load	Q [tn(US)]	3.9
	1.7**	Rated drawbar pull	F [lbf]	144
	1.9	Wheelbase	y [in]	34
Wt	2.1	Weight incl. battery		lb 848
	2.3	Axle loading, without load	front/rear lb	326/522
Tyres/Chassis	3.1	Tyres	front/rear	Pneumatic
	3.2	Tyres size	front in	10.2x3.3
	3.3	Tyres size	rear in	16x6.50
	3.5	Wheels, number (x = driven)	front/rear	1/x2
	3.6	Tread	front/rear b <sub>10</sub> /b <sub>11</sub> [in]	-/26.5
Dimensions	4.9	Tiller height	min-max h <sub>14</sub> [in]	26.5-44.5
	4.12	Tow coupling height	min-max h <sub>10</sub> [in]	5-12
	4.19	Overall length	l <sub>1</sub> [in]	47.5
	4.21	Overall width	b <sub>1</sub> [in]	33.5
	4.32	Ground clearance, center of wheel base	m <sub>2</sub> [in]	3.7
Performance	5.1	Travel speeds forwards	with/without load mph	2.8/3.1
	5.1.1	Travel speed backwards	with/without load mph	2.2/2.5
	5.5**	Max drawbar pull (S2 = 60 min)	with load lbf	144
	5.6**	Max drawbar pull (S2 = 5 min)	with load lbf	362
	5.8*	Maximum slope (5 min)	with/without load	0/24
	5.9	Acceleration	with/without load	8/6
	5.10	Service brake		Electromagnetic
Drive	6.1	Drive motor output (S2 = 60 min)	hp	2.0
	6.4	Battery voltage/nominal capacity		24/120
	6.5	Battery weight +/- 5%	lb	75
Other	8.1	Type of drive unit		AC
	10.7	Sound level at operator's ear		<60

\* 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).

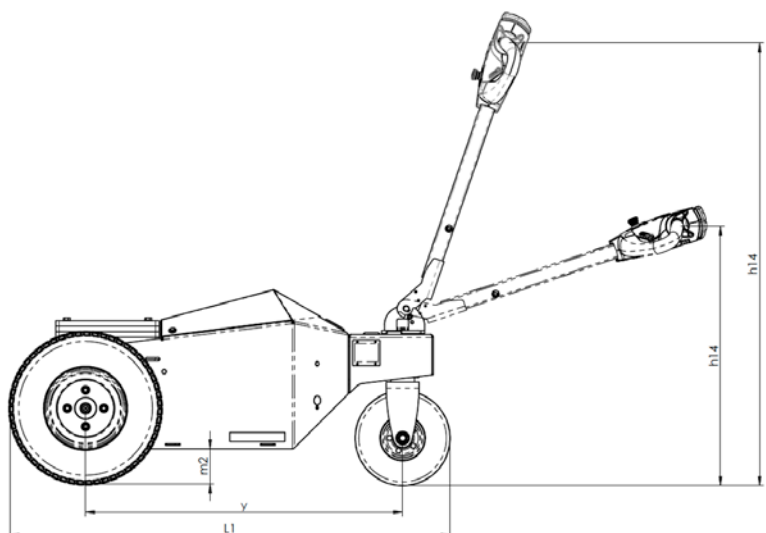
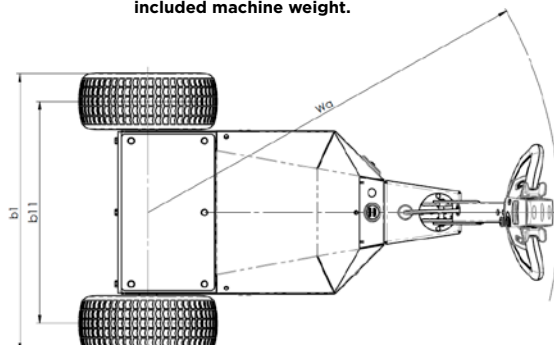
\*\* The maximum drawbar load on the hook [lbf] is determined by the engine power of the machine but is affected by the type of wheels of the machine and of the towed trolley/load, the type of surface and the drivable weight of the machine.

\*\*\* 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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