



## TT1500-T M090

The TT1500-T, the larger sibling of the TT1000-T and the first electric tug developed by Movexx, has been continuously refined in both design and technology over the years. Today, the TT1500-T stands as the ultimate electric pulling aid, designed to reduce physical strain and enhance efficiency. It can effortlessly move trolleys, carts, and server racks with a total weight of up to 1,500 kg (3,300 lbs).

### Power and Precision

At the heart of the TT1500-T is a robust electric drivetrain, delivering an unparalleled combination of strength and precision. Its enhanced electric motor ensures smooth and controlled movement, allowing operators to navigate tight spaces with ease. With a towing capacity of up to 1,500 kg (3,300 lbs), this electric tug is built to handle a wide range of demanding tasks.

### Versatile use

The TT1500-T is suitable for a variety of industries, including industrial manufacturing, heavy-duty logistics, and waste management. It can efficiently transport roll containers, industrial carts, and the aforementioned waste containers.

Additionally, the TT1500-T features our signature interchangeable hook system, allowing for customized hooks to secure different types of trolleys and carts. As long as the trolley's wheel configuration consists of two fixed wheels and two or four swiveling wheels, the TT1500-T can move it — provided the total load does not exceed 1,500 kg (3,300 lbs).

### Eco-Friendly Efficiency

The TT1500-T comes equipped with a LiFePO<sub>4</sub> lithium battery, offering several advantages. It supports opportunity charging, meaning it can be partially recharged between uses, and it lasts at least twice as long as conventional batteries. A built-in Battery Management System (BMS) prevents both deep discharge and overcharging, ensuring optimal battery lifespan.

Thanks to the quick-change battery system, lithium batteries can be swapped out easily and efficiently, minimizing downtime and maximizing productivity.

### Safety First

Safety is paramount in any industrial environment, and the TT1500-T is designed with a comprehensive set of safety features. From emergency braking systems to a safety reverse switch, every component is engineered to protect operators and bystanders. Additionally, the tug's stability and Drive Control Lever enhance maneuverability and safety, making it a reliable choice—even in challenging outdoor conditions.

## Conclusion

The TT1500-T electric tug is more than just a machine — it's a solution designed to meet the evolving demands of industries prioritizing efficiency, adaptability, and sustainability. As industries face new challenges, this versatile electric tug stands as a testament to innovation in material handling.

Embrace the future of logistics with the TT1500-T — your ultimate electric tug.



## STANDARD / OPTIONAL EQUIPMENT

### STANDARD

Standard:

- 4 km/h (2.5 mph) travel speed
- Automatic parking brake
- Full rubber drive wheels
- LiFePO<sub>4</sub> battery 24V, 20Ah
- Safety reverse switch on tiller head
- High-precision digital battery indication

### OPTIONAL

- Tilting assist
- Strobe light
- Horn (87 or 103 dB)
- Ignition lock
- Hour counter
- Non-marking drive wheels
- Foam-filled drive wheels
- Electric clamping hook
- Lift system stroke 100mm (4 in.)
- Extra LiFePO<sub>4</sub> battery 24V, 20Ah
- Remote control up to 50m (165 ft)
- Frame for waste-bins (770 l & 240 l)



## Features

### Frame

- Metal components are made from double coated steel;
- Robust metal cover protects drive system and components;
- The adjustable tillerhead ensures the operator is at a safe yet comfortable distance from the tug.

### 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.

### Battery:

- 20Ah 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;
- Interchangeable battery. (1 extra battery can ensure 24-7 operation)

### 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: 25.6Vdc, 10A.

### 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.



# TECHNICAL DATA TT1500-T M090

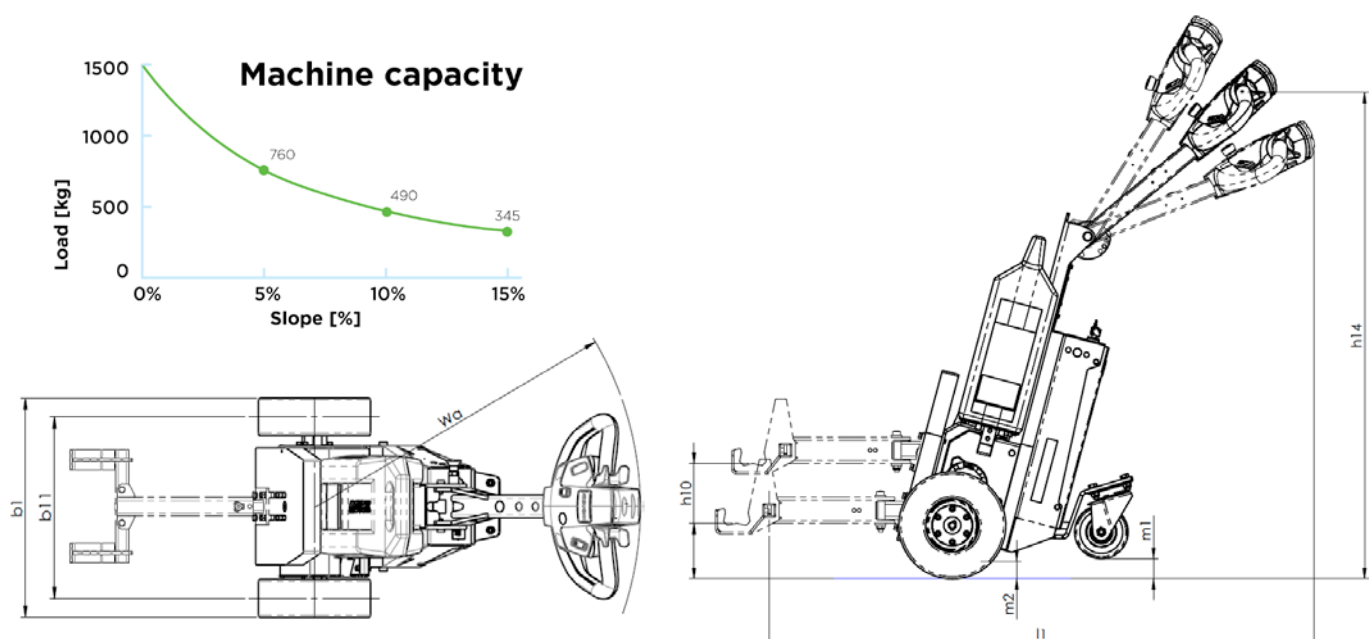
According to VDI 2198 in Metric units.

Characteristics	1.1	Manufacturer		Movexx International B.V.	
	1.2	Manufacturer's type designation		TT1500T- M090	
	1.3	Drive		Electric with LiFePO <sub>4</sub> battery	
	1.4	Operator type		Tilting	
	1.5*	Rated capacity/rated load	Q [t]	1.5	
	1.7**	Rated drawbar pull	F [N]	490	
Wt	2.1	Weight incl. battery	kg	130	
	2.2	Axle load with load	front/rear	kg	152
Tyres/Chassis	3.1	Tyres		Solid Rubber	
	3.2	Tyres size	front	mm	250x84
	3.4	Auxiliary wheels size		mm	125
	3.5	Wheels, number (x = driven)	front/rear	-/x2	
	3.6	Tread	front/rear	b <sub>10</sub> /b <sub>11</sub> [mm]	-/403
Dimensions	4.9	Tiller height	min./max.	h <sub>14</sub> [mm]	1006-1137-1231
	4.12	Tow coupling height		h <sub>10</sub> [mm]	130-270
	4.19	Total length		l <sub>1</sub> [mm]	1273.5
	4.21	Total width		b <sub>1</sub> [mm]	487
	4.31	Ground clearance, auxiliary wheel		m <sub>1</sub> [mm]	47
	4.32	Ground clearance, center of wheel base		m <sub>2</sub> [mm]	41
	4.35	Turning radius		Wa [mm]	775
Performance	5.1	Travel speeds	with/without load	km/h	4/4
	5.1.1	Travel speed backwards	with/without load	km/h	4/4
	5.5**	Max drawbar pull (S2 = 60 min)	with/without load	N	490
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load	N	980
	5.8*	Maximum slope (5 min)	with/without load	%	0/15
	5.9	Acceleration	with/without load	s	8/6
	5.10	Service brake		Electromagnetic	
Drive	6.1	Drive motor output (S2 = 60 min)	kW	0.6	
	6.4	Battery voltage/rated capacity	V/Ah	24/20	
	6.5	Battery weight +/- 5%	kg	8.5	
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%.



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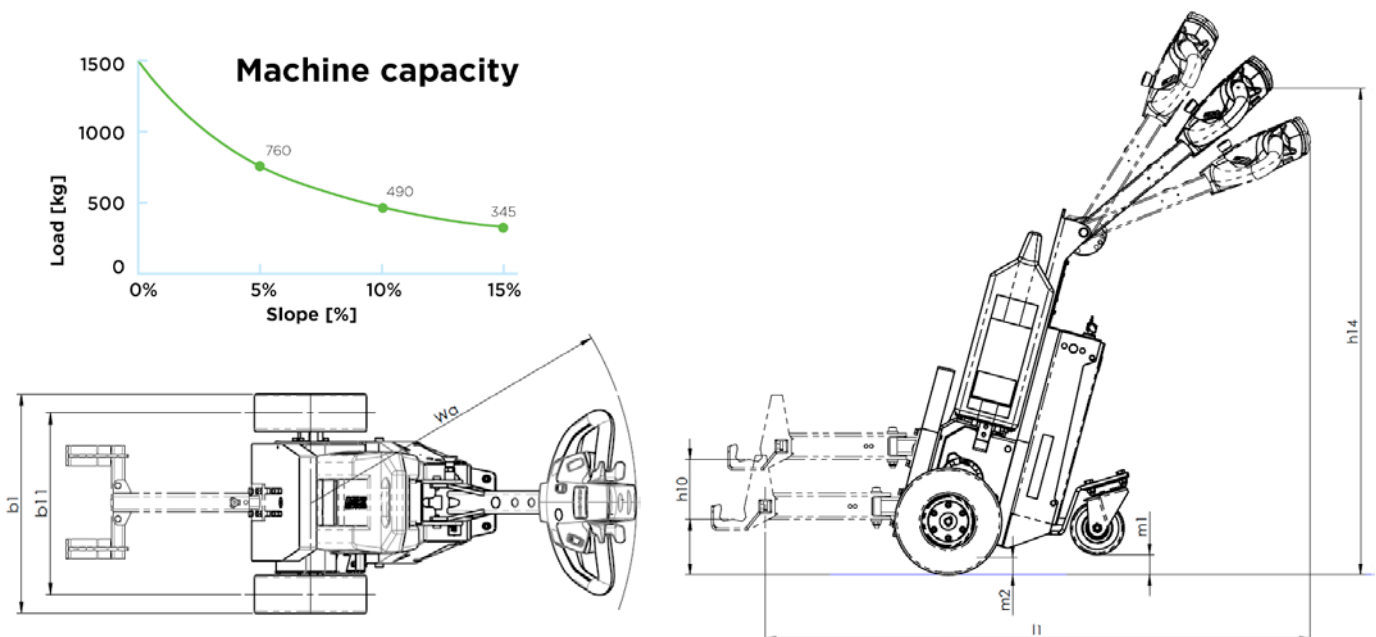
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	1.2	Manufacturer's type designation			TT1500T- M090
	1.3	Drive			Electric with LiFePO <sub>4</sub> battery
	1.4	Operator type			Tilting
	1.5*	Rated capacity/rated load	Q [tn(US)]	1.6	
	1.7**	Rated drawbar pull	F [lbf]	110	
Wt	2.1	Weight incl. battery	lb	287	
	2.2	Axle load with load	front/rear	lb	335
Tyres/Chassis	3.1	Tyres			Solid Rubber
	3.2	Tyres size	front	in	9.8x3.3
	3.4	Auxiliary wheels size			5
	3.5	Wheels, number (x = driven)	front/rear	-/x2	
	3.6	Tread	front/rear	b <sub>10</sub> /b <sub>11</sub> [in]	-/16
	Dimensions	4.9	Tiller height	min./max.	h <sub>14</sub> [in]
4.12		Tow coupling height		h <sub>10</sub> [in]	5-10.5
4.19		Total length		l <sub>1</sub> [in]	50
4.21		Total width		b <sub>1</sub> [in]	19
4.31		Ground clearance, auxiliary wheel		m <sub>1</sub> [in]	1.8
4.32		Ground clearance, center of wheel base		m <sub>2</sub> [in]	1.6
4.35		Turning radius		Wa [in]	31
Performance	5.1	Travel speeds	with/without load	mph	2.5/2.5
	5.1.1	Travel speed backwards	with/without load	mph	2.5/2.5
	5.5**	Max drawbar pull (S2 = 60 min)	with/without load	lbf	110
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load	lbf	220
	5.8*	Maximum slope (5 min)	with/without load	%	0/15
	5.9	Acceleration	with/without load	s	8/6
	5.10	Service brake			Electromagnetic
Drive	6.1	Drive motor output (S2 = 60 min)		hp	0.80
	6.4	Battery voltage/rated capacity		V/Ah	24/20
	6.5	Battery weight +/- 5%		lb	18.5
Other	8.1	Drive control			DC
	10.7	Sound level at operator's ear		dB(A)	<65

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