



TT1000-M M050

The Movexx TT1000-M is a compact yet powerful pedestrian-operated electric tug, designed to safely and efficiently move heavy loads on four swivel wheels (and other wheel configurations) in a wide range of industrial and logistics environments. Its ergonomic design, intuitive controls, and robust construction make it an ideal solution for daily internal transport tasks. The TT1000-M reduces physical strain, enhances productivity, and ensures consistent performance in demanding operations.

Performance

The TT1000-M delivers strong and reliable performance for moving heavy loads with ease, even if these loads are equipped with four swivel wheels. Its electric drive system provides smooth acceleration and precise control, allowing operators to manoeuvre loads safely even in confined spaces. Consistent traction and stable handling ensure dependable performance on various floor types, supporting efficient work flows throughout the working day.

Comfort

Designed with the operator in mind, the TT1000-M features an ergonomic tiller head and intuitive control layout for effortless operation. Minimal training is required, enabling quick adoption across teams. Smooth driving characteristics reduce physical effort and operator fatigue, making the TT1000-M a comfortable and user-friendly solution for repetitive transport tasks.

Reliability

Safety is a key element of the TT1000-M design. Controlled speeds, reliable braking, and a stable chassis ensure secure handling of loads at all times. Excellent manoeuvrability and predictable behaviour help reduce risks in busy work environments. By minimizing manual pushing and pulling, the TT1000-M also contributes to improved workplace ergonomics and reduced injury risk.

Safety

Built on proven Movexx technology, the TT1000-M is engineered for durability and long service life. High-quality components, a robust frame, and low-maintenance construction ensure maximum uptime and dependable operation. Whether used in warehouses, production facilities, or distribution centres, the TT1000-M delivers consistent performance day after day.

STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD

- 4.5 km/h (2.8 mph) travel speed
- Automatic parking brake
- Drive wheel polyurethane
- Electromagnetic brake
- Emergency button
- Spring loaded lift
- LiFePO₄ exchangeable smart battery 24V, 20Ah
- Non-marking solid rubber support wheels
- Safety reverse switch on tiller head

OPTIONAL

- Extra LiFePO₄ exchangeable smart battery 24V, 40Ah
- Wall mounted charger

Features

Traction and height adjustment system

- 0.3 kW DC drive motor;
- Adjustable parameters: travel speed up to 4.5 km/h (2.8 mph) & acceleration settings;
- Electrical lift adjustment.

Drive unit

- Housing components are made from powder coated steel;
- Robust steel cover protects operators feet, drive system and components;
- Long tiller head support ensures the operator is at a safe yet comfortable distance from the tug.

Braking system

- Highly efficient electromagnetic brake applied by moving the tiller head to the fully upright position;
- Automatic braking on releasing traction switch or reversing direction;
- The TT1000-M slows down before coming to a stop, remaining under total control at all times;
- Emergency button.

Battery

- Exchangeable battery system ensures optimal running time;
- LiFePO₄ smart battery with integrated Battery Management System;
- Integrated LED charge indicator;
- Integrated CANOpen communication;
- Average 8 hours drive time on single charge;
- Less than 4 hours charging time.



External charger

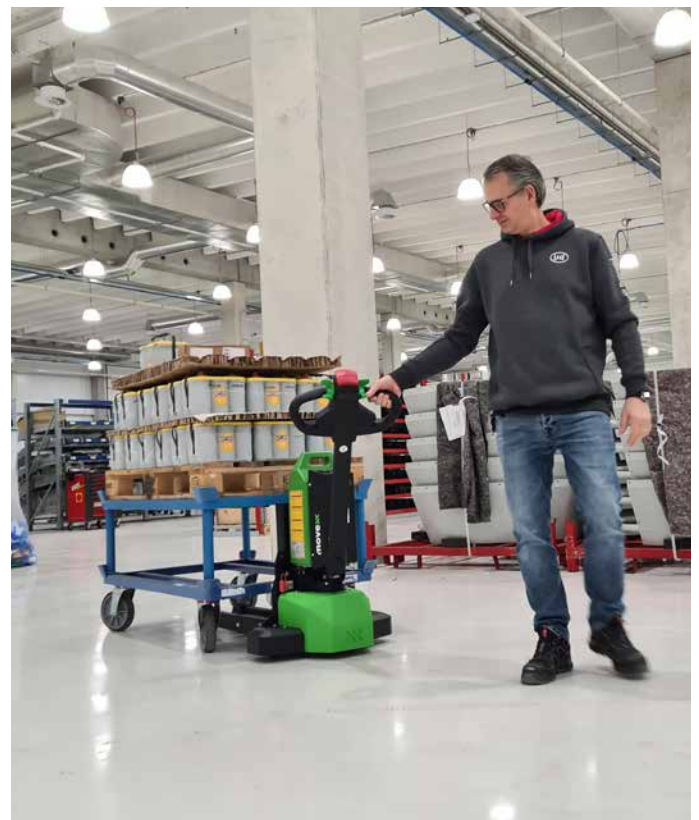
- Enables charging opportunity at any convenient power outlet;
- Easy plug connection and fast charging.

Controls

- Traction and height adjustment controls grouped on ergonomic tiller head;
- Dual drive control levers for use with either hand;
- Safety reverse switch on tiller head stops the TT1000-M and briefly drives away from the operator when actuated.

Superstructure

- Rugged, reinforced superstructure provides safe handling of loads up to 1,000 kg (2,200 lbs);
- Compact design for safe operation in tight spaces;
- Various hooks and couplings available for virtually any load.



TECHNICAL DATA TT1000-M M050

According to VDI 2198 in SI units.

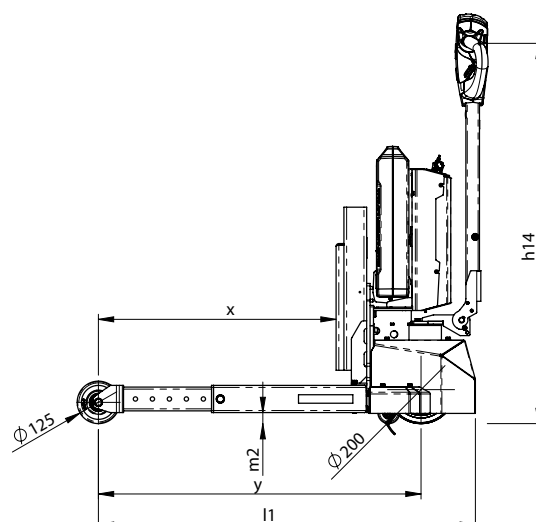
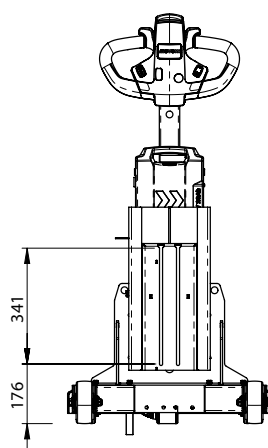
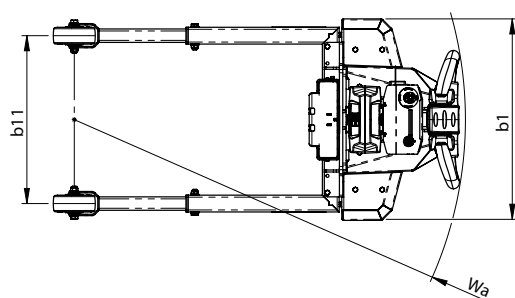
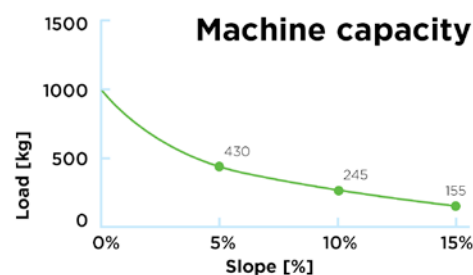
Characteristics	1.1	Manufacturer		Movexx International B.V.	
	1.2	Manufacturer's type designation		TT1000-M M050	
	1.3	Drive		Electric with LiFePO ₄ battery	
	1.4	Operator type		Pedestrian	
	1.5	Rated capacity/rated load	Q [t]	1	
	1.7	Rated drawbar pull	F [N]	546	
	1.8	Load distance, center of drive axle to lift face	x [mm]	710-460	
	1.9	Wheelbase	y [mm]	950-700	
Weights	2.1	Weight incl. battery	kg	105	
	2.2	Axle load with load	front/rear	kg	150/38
	2.3	Axle loading, without load	front/rear	kg	92/13
Tyres/Chassis	3.1	Tyres	front/rear	PU/Solid Rubber	
	3.2	Tyres size	front	mm	200x60
	3.3	Tyres size	rear	mm	125x50
	3.5	Wheels, number (x = driven)	front/rear	x1/2	
	3.6	Tread	front/rear	b ₁₀ /b ₁₁ [mm]	60/50
Dimensions	4.9	Tiller height	min-max	h ₁₄ [mm]	1080/650
	4.19	Overall length		l ₁ [mm]	923-1173
	4.21	Overall width		b ₁ [mm]	460-656
	4.32	Ground clearance, center of wheel base		m ₂ [mm]	32.5
	4.35	Turning radius		Wa [mm]	1165-915
Performance	5.1	Travel speeds forwards	with/without load	km/h	3/4
	5.1.1	Travel speed backwards	with/without load	km/h	3/4
	5.5	Max drawbar pull (S2 = 60 min)	with load	N	273
	5.6	Max drawbar pull (S2 = 5 min)	with load	N	546
	5.8	Maximum slope (5 min)	with/without load	%	0/10
	5.9	Acceleration	with/without load	s	10/8
	5.10	Service brake	Electromagnetic		
Drive	6.1	Drive motor output (S2 = 60 min)	kW	0.3	
	6.4	Battery voltage/nominal capacity	V/Ah	24/20	
	6.5	Battery weight +/- 5%	kg	4.8	
Other	8.1	Type of drive unit	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.

*** Values vary with different wheel base lengths (1.9 [y])

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



TECHNICAL DATA TT1000-M M050

According to VDI 2198 in USCS units.

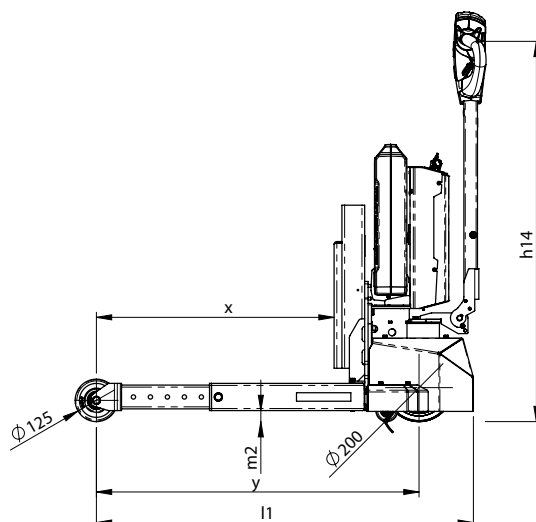
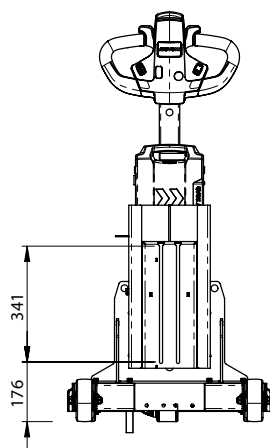
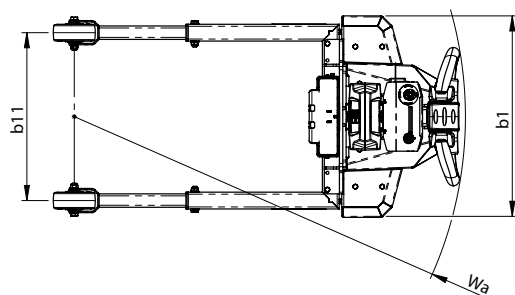
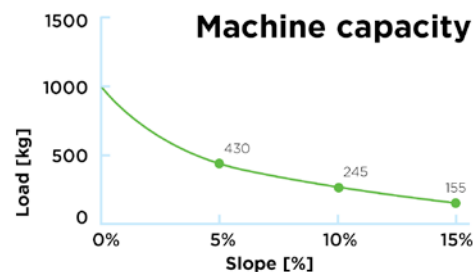
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	1.2	Manufacturer's type designation			TT1000-M M050	
	1.3	Drive			Electric with LiFePO ₄ battery	
	1.4	Operator type			Pedestrian	
	1.5	Rated capacity/rated load	Q [tn(US)]	1		
	1.7	Rated drawbar pull	F [lbf]	62		
	1.8	Load distance, center of drive axle to lift face	x [in]	28-18		
	1.9	Wheelbase	y [in]	37.5-27.5		
Weights	2.1	Weight incl. battery			lb	231
	2.2	Axle load with load	front/rear	lb	331/77	
	2.3	Axle loading, without load	front/rear	lb	202/29	
Tyres/Chassis	3.1	Tyres	front/rear	PU/Solid Rubber		
	3.2	Tyres size	front	in	7.9x2.4	
	3.3	Tyres size	rear	in	4.9x2	
	3.5	Wheels, number (x = driven)	front/rear	x1/2		
	3.6	Tread	front/rear	b ₁₀ /b ₁₁ [in]	2.4/2	
Dimensions	4.9	Tiller height	min-max	h ₁₄ [in]	42.5/25.5	
	4.19	Overall length		l ₁ [in]	36.5-46.5	
	4.21	Overall width		b ₁ [in]	18-26	
	4.32	Ground clearance, center of wheel base		m ₂ [in]	1.280	
	4.35	Turning radius		Wa [in]	49-36	
Performance	5.1	Travel speeds forwards	with/without load	mph	1.9/2.5	
	5.1.1	Travel speed backwards	with/without load	mph	1.9/2.5	
	5.5	Max drawbar pull (S2 = 60 min)	with load	lbf	62	
	5.6	Max drawbar pull (S2 = 5 min)	with load	lbf	123	
	5.8	Maximum slope (5 min)	with/without load	%	0/10	
	5.9	Acceleration	with/without load	s	10/8	
	5.10	Service brake			Electromagnetic	
Drive	6.1	Drive motor output (S2 = 60 min)		hp	0.4	
	6.4	Battery voltage/nominal capacity		V/Ah	24/20	
	6.5	Battery weight +/- 5%		lb	10.6	
Other	8.1	Type of drive unit			DC	
	10.7	Sound level at operator's ear			dB(A)	<65

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