



TT1000-T-CP M020

The Movexx TT1000-T-CP “CartPusher” is a compact yet powerful electric tug, designed to simplify the movement of carts and trolleys in busy work environments. Combining effortless control with smart ergonomics, it helps operators increase efficiency while reducing strain and fatigue. Built for versatility and demanding conditions, the CartPusher delivers the perfect mix of performance, comfort, safety, and reliability.

Performance

Equipped with a strong drive system, the TT1000-T-CP handles a wide range of carts and trolleys with ease. Smooth acceleration and responsive steering allow precise maneuvering in narrow aisles or crowded spaces, while consistent traction ensures safe operation on various floor surfaces. Its high efficiency reduces the time and effort needed to move loads, enabling operators to maintain steady workflows and meet tight deadlines.

Comfort

Operator well-being is at the heart of the CartPusher’s design. Lightweight and intuitive to control, it allows for effortless pushing or towing of carts with minimal physical exertion. Ergonomic grips, adjustable controls, and low vibration operation provide a comfortable experience, even during extended shifts. By reducing fatigue, the TT1000-T-CP enhances productivity while supporting a safer and more pleasant working environment.

Safety

The TT1000-T-CP prioritizes safety at every turn. Automatic braking, speed control, and accessible emergency stop functions provide secure and controlled operation in dynamic environments. Its stable design minimizes tipping risks, while the clear operator interface ensures visibility and situational awareness at all times. By protecting both operators and surrounding personnel, the CartPusher maintains high safety standards without compromising workflow efficiency.

Reliability

Engineered with durable components and proven Movexx technology, the TT1000-T-CP delivers dependable performance day after day. Its low-maintenance construction and easy serviceability maximize uptime, ensuring your investment continues to perform over the long term. Designed for continuous operation in warehouses, hospitals, retail, or manufacturing, the CartPusher is a trustworthy solution that keeps your operations running smoothly.



STANDARD / OPTIONAL EQUIPMENT

STANDARD

- 4 km/h travel speed
- Automatic parking brake
- Full rubber drive wheels
- LiFePO₄ battery 24V, 20Ah
- Safety reverse switch on tiller head
- High-precision digital battery indication

OPTIONAL

- 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.)
- LiFePO₄ battery 24V, 20Ah
- Remote control up to 50m (165 ft.)



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 LiFePO₄ battery with integrated battery management system;
- Ensures precise battery indication and optimal running time;
- 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 TT1000-T-CP M020

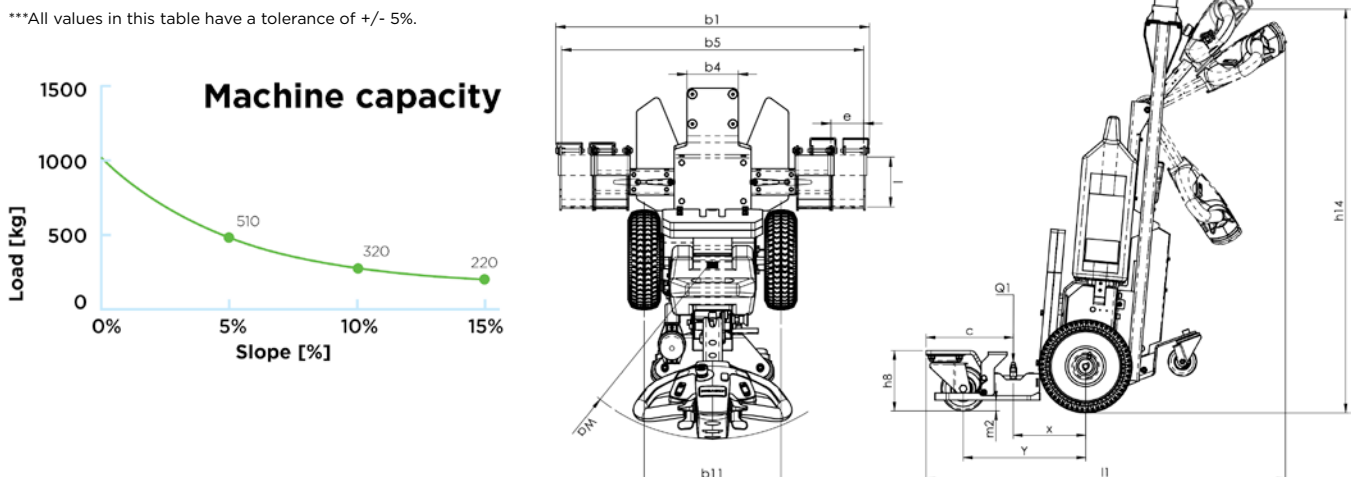
According to VDI 2198 in Metric units.

Characteristics	1.1	Manufacturer		Movexx International B.V.	
	1.2	Manufacturer's type designation		TT1000-T-CP M020	
	1.3	Drive		Electric with LiFePO ₄ battery	
	1.4	Operator type		Remote	
	1.5*	Rated capacity	Q [t]	1	
	1.5.1	Rated load	Q1[t]	0.05	
	1.6	Load centre distance	c [mm]	244	
	1.7**	Rated drawbar pull	F [N]	340	
	1.8	Load distance, centre of drive axle to fork	x [mm]	202	
	1.9	Wheelbase	y [mm]	342.5	
Wt	2.1	Weight incl. battery	kg	115	
	2.3	Axle load without load	front/rear	kg	17/98
Tyres/Chassis	3.1	Tyres		Foam filled	
	3.2	Tyres size	front	mm	125x50
	3.3	Tyres size	rear	mm	250x84
	3.4	Auxiliary wheels size		mm	80
	3.5	Wheels, number (x = driven)	front/rear	1/x2	
	3.6	Tread	front/rear	b ₁₀ /b ₁₁ [mm]	-/355
Dimensions	4.9	Tiller height	min./max.	h ₁₄ [mm]	1029-1132
	4.10	Height of wheel arm		h ₈ [mm]	169
	4.12	Tow coupling height		h ₁₀ [mm]	93
	4.19	Total length		l ₁ [mm]	1006
	4.21	Total width		b ₁ [mm]	645-815
	4.22	Fork dimensions		e/l [mm]	85/130
	4.25	Fork spread		b ₅ [mm]	615-785
	4.26	Width frame support wheel		b ₄ [mm]	133
	4.32	Ground clearance, center of wheel base		m ₂ [mm]	30.4
	4.35	Turning radius		Wa [mm]	470
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	340
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load	N	690
	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	0.3	
	6.4	Battery voltage/rated capacity	V/Ah	24/40	
	6.5	Battery weight +/- 5%	kg	8.5	
Other	8.1	Drive control			DC
	10.7	Sound level at operator's ear			dB(A)

* 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 driveable weight of the machine.

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



All Images of products shown in this datasheet are indicative only. The actual products may differ from the displayed image. No rights can therefore be derived from the images shown.

TECHNICAL DATA TT1000-T-CP M020

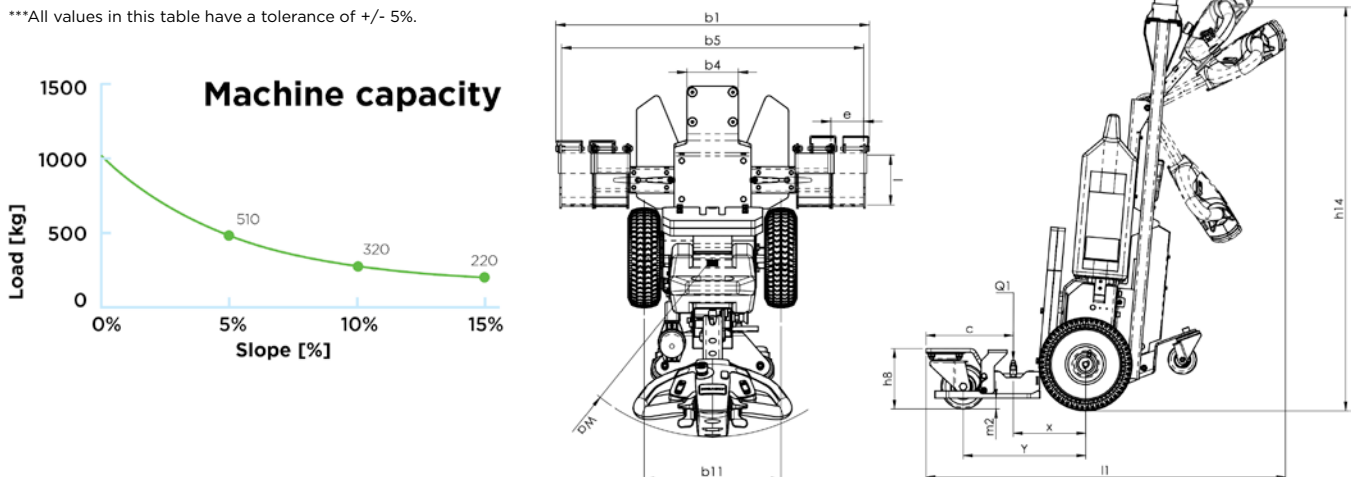
According to VDI 2198 in Imperial units.

Characteristics	1.1	Manufacturer	Movexx International B.V.	
	1.2	Manufacturer's type designation	TT1000-T-CP M020	
	1.3	Drive	Electric with LiFePO ₄ battery	
	1.4	Operator type	Remote	
	1.5*	Rated capacity	Q [tn(US)]	1.10
	1.5.1	Rated load	Q1[tn(US)]	0.06
	1.6	Load centre distance	c [in]	9.5
	1.7**	Rated drawbar pull	F [lbf]	76
	1.8	Load distance, centre of drive axle to fork	x [in]	8
	1.9	Wheelbase	y [in]	13.5
Wt	2.1	Weight incl. battery	lb	254
	2.3	Axle load without load	front/rear lb	38/216
Tyres/Chassis	3.1	Tyres	Foam filled	
	3.2	Tyres size	front in	4.9x2
	3.3	Tyres size	rear in	9.8x3.3
	3.4	Auxiliary wheels size	in	3.2
	3.5	Wheels, number (x = driven)	front/rear	1/x2
	3.6	Tread	front/rear b ₁₀ /b ₁₁ [in]	-/14
Dimensions	4.9	Tiller height	min./max. h ₁₄ [in]	40.5-44.5
	4.10	Height of wheel arm	h ₈ [in]	6.5
	4.12	Tow coupling height	h ₁₀ [in]	3.5
	4.19	Total length	l ₁ [in]	39.5
	4.21	Total width	b ₁ [in]	25.5-32
	4.22	Fork dimensions	e/l [in]	3.5/5
	4.25	Fork spread	b ₅ [in]	24-31
	4.26	Width frame support wheel	b ₄ [in]	5.3
	4.32	Ground clearance, center of wheel base	m ₂ [in]	1.2
	4.35	Turning radius	Wa [in]	18.5
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	76
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load lbf	155
	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	0.40
	6.4	Battery voltage/rated capacity	V/Ah	24/40
	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

* 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 driveable weight of the machine.

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



All Images of products shown in this datasheet are indicative only. The actual products may differ from the displayed image. No rights can therefore be derived from the images shown.



Movexx International BV. reserves the right to make adjustments to this publication at any time, without notice or obligation. Data in this publication are for reference use only. It is the responsibility of the reader of this information to verify any and all information presented herein. All Images of products shown in this document are indicative only. The actual products may differ from the displayed image. No rights can therefore be derived from the images shown. For more information contact us at info@movexx.com.

movexx
smart electric tugs

Generatorstraat 17-19
3903 LH Veenendaal
The Netherlands

T +31 (0)318 51 99 00
E info@movexx.com
I www.movexx.com