



RR1000-S M110

The Movexx RR1000-S is a powerful ride-on electric tug, designed to effortlessly move heavy loads with precision and ease. Combining strength with smart ergonomics, it helps operators increase productivity while reducing physical strain. Engineered for demanding environments, the RR1000-S ensures efficiency, safety, and long-term reliability.

Performance

With its robust drive system and impressive towing capacity, the RR1000-S delivers outstanding performance in both indoor and outdoor applications. Smooth acceleration and responsive steering allow precise manoeuvring in tight spaces, while consistent traction ensures optimal handling even on uneven surfaces. This high-performing tug minimizes transport times, reduces manual handling, and supports continuous operations, making it the ideal solution for intensive logistics and manufacturing processes.

Comfort

Operator comfort is a central focus in the design of the RR1000-S. The spacious ride-on platform provides a stable and ergonomic working position, while intuitive controls allow effortless operation with minimal training. Low vibration levels, optimized suspension, and a smooth driving experience reduce fatigue during long shifts, enabling operators to remain productive and comfortable throughout the day. The RR1000-S turns physically demanding transport tasks into an efficient and user-friendly experience.

Safety

Safety is integrated into every aspect of the RR1000-S. Automatic braking systems, an accessible emergency stop, and speed control guarantee secure and reliable handling in every situation. The tug only operates with the driver standing on the driver detection mat. The stable design reduces tipping risks, while clear sight lines enhance visibility for safe navigation in busy environments. By prioritizing both operator and bystander protection, the RR1000-S ensures maximum security without compromising productivity.

Reliability

Built from durable components and engineered to withstand intensive use, the RR1000-S sets the standard for reliability. Low-maintenance construction, easy serviceability, and Movexx' proven technology ensure maximum uptime and a long service life. The LiFePO₄ battery is exchangeable, giving you the opportunity to run the tug 24/7. Whether used in manufacturing plants, warehouses, or distribution centres, the RR1000-S consistently delivers dependable performance, providing businesses with a cost-efficient and future-proof transport solution.



STANDARD / OPTIONAL EQUIPMENT

STANDARD

- 6.5 km/h travel speed
- Automatic parking brake
- Driver detection mat
- Full rubber drive wheels
- LiFePO₄ smart battery 24V, 40Ah
- Battery retainer lock
- Emergency stop

OPTIONAL

- Strobe light
- Horn (87 or 103 dB)
- Ignition lock
- Hour counter
- Non-marking drive wheels
- Various coupling pins
- Electric clamping hook
- Lift system stroke 100mm (4 in.)
- Extra battery



FEATURES

Frame

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

Braking system

- Direct forceful braking by reversing traction switch;
- Smooth braking by releasing Drive Control Lever;
- Driver detection mat releases the brake if the driver is standing in the right position;
- Immediate full braking by pressing the emergency stop.

Battery

- 40Ah lithium LiFePO₄ smart battery with integrated battery management system (BMS);
- Ensures precise battery indication and optimal running time;
- Integrated LED charge indicator;
- Integrated CANOpen communication;
- Interchangeable battery. (1 extra smart 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, 12A.

Controls

- Multiple control switches grouped on ergonomic tiller head;
- DCL; Drive Control Lever usable for left and right-handed;



TECHNICAL DATA RR1000-S M110

According to VDI 2198 in SI units.

Characteristics	1.1	Manufacturer	Movexx International B.V.	
	1.2	Manufacturer's type designation	RR1000-S M110	
	1.3	Drive	Electric with LiFePO ₄ battery	
	1.4	Operator type	Platform	
	1.5*	Rated capacity/rated load	Q [t]	1
	1.7**	Rated drawbar pull	F [N]	252
	1.9	Wheelbase	y [mm]	980
Wt	2.1	Weight incl. battery	kg	130
	2.3	Axle load with load (80kg person)	front/rear kg	95/115
Tyres/Chassis	3.1	Tyres	Solid Rubber	
	3.2	Tyres size	front mm	250x84
	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]	-/358
Dimensions	4.8	Stand height/Backrest height	min./max. h ₇ [mm]	113 / 947-1157
	4.9	Tiller height	min./max. h ₁₄ [mm]	1082-1174-1223
	4.12	Tow coupling height	h ₁₀ [mm]	180-85-275
	4.19	Total length	l ₁ [mm]	1230
	4.21	Total width	b ₁ [mm]	454
	4.32	Ground clearance, center of wheel base	m ₂ [mm]	50
	4.35	Turning radius	Wa [mm]	1500
Performance	5.1	Travel speeds	with/without load km/h	6.5
	5.1.1	Travel speed backwards	with/without load km/h	3
	5.5**	Max drawbar pull (S2 = 30 min)	with/without load N	252
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load N	630
	5.8*	Maximum slope (5 min)	with/without load %	0/15
	5.9	Acceleration	with/without load s	10/6
	5.10	Service brake	Electromagnetic	
Drive	6.1	Drive motor output (S2 = 60 min)	kW	0.42
	6.4	Battery voltage/rated capacity	V/Ah	24V/40
	6.5	Battery weight +/- 5%	kg	7.7
Other	8.1	Drive control	DC	
	10.7	Sound level at operator's ear	dB(A)	<68

* 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).

TECHNICAL DATA RR1000-S M110

According to VDI 2198 in USCS units.

Characteristics	1.1	Manufacturer	Movexx International B.V.	
	1.2	Manufacturer's type designation	RR1000-S M110	
	1.3	Drive	Electric with LiFePO ₄ battery	
	1.4	Operator type	Platform	
	1.5*	Rated capacity/rated load	Q [tn(US)]	1.1
	1.7**	Rated drawbar pull	F [lbf]	57
	1.9	Wheelbase	y [in]	38.5
Wt	2.1	Weight incl. battery	lb	287
	2.3	Axle load with load (80kg person)	front/rear lb	210/254
Tyres/Chassis	3.1	Tyres	Solid Rubber	
	3.2	Tyres size	front in	9.8x3.3
	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	4.8	Stand height/Backrest height	min./max. h ₇ [in]	4.5 / 37.5-45.5
	4.9	Tiller height	min./max. h ₁₄ [in]	42.5-46-48
	4.12	Tow coupling height	h ₁₀ [in]	7-3.4-10.8
	4.19	Total length	l ₁ [in]	48.5
	4.21	Total width	b ₁ [in]	18
	4.32	Ground clearance, center of wheel base	m ₂ [in]	1.9
	4.35	Turning radius	Wa [in]	59
Performance	5.1	Travel speeds	with/without load mph	4
	5.1.1	Travel speed backwards	with/without load mph	1.8
	5.5**	Max drawbar pull (S2 = 30 min)	with/without load lbf	57
	5.6**	Max drawbar pull (S2 = 5 min)	with/without load lbf	141
	5.8*	Maximum slope (5 min)	with/without load %	0/15
	5.9	Acceleration	with/without load s	10/6
	5.10	Service brake	Electromagnetic	
Drive	6.1	Drive motor output (S2 = 60 min)	hp	0.56
	6.4	Battery voltage/rated capacity	V/Ah	24V/40
	6.5	Battery weight +/- 5%	lb	17
Other	8.1	Drive control	DC	
	10.7	Sound level at operator's ear	dB(A)	<68

* The maximum payload is affected by the type of slope, operating time and floor type. See the graphic below for an indication of



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