Linde Material Handling

Multi Function Vehicle

MV01

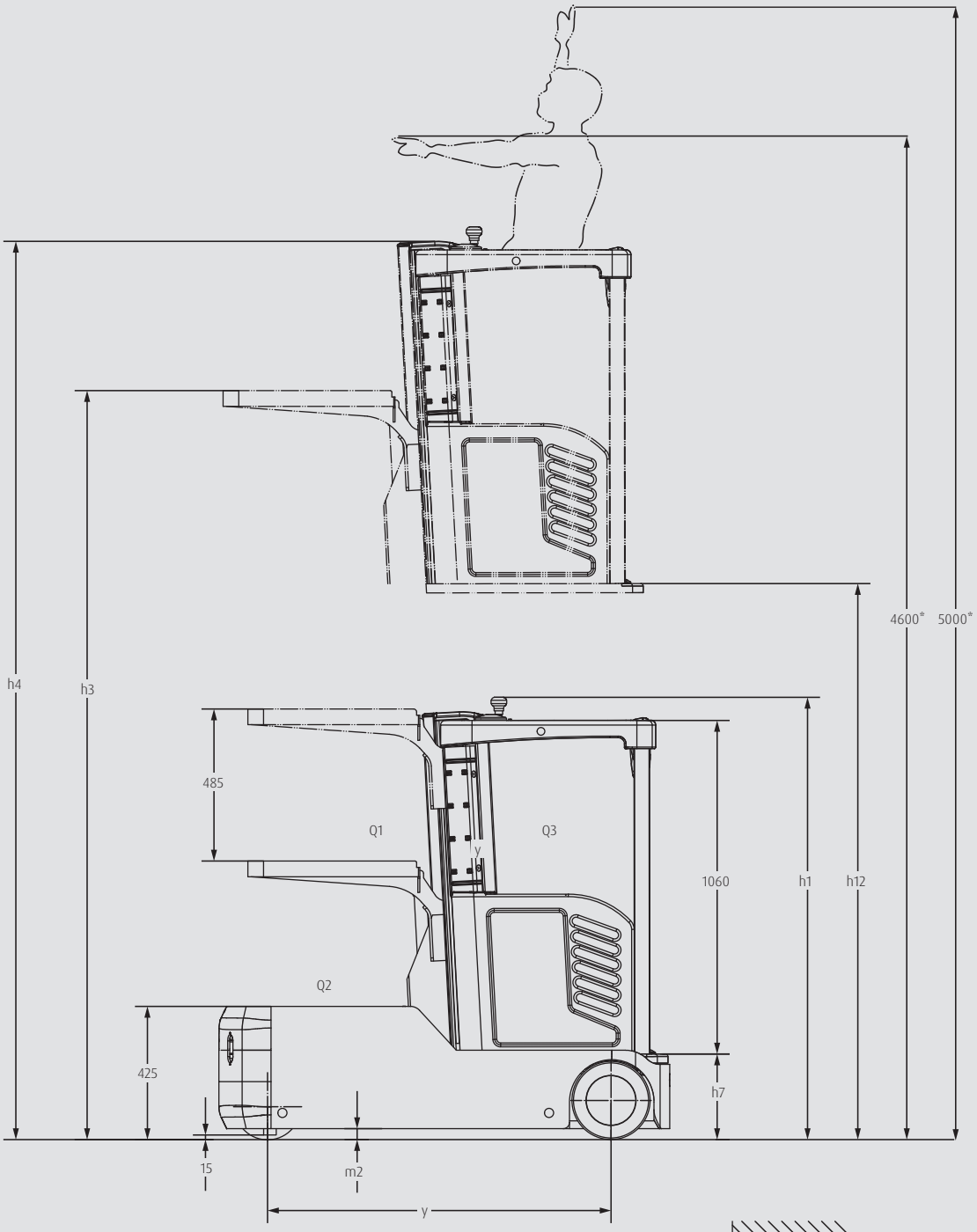
Capacity 0.09 t | Series 8905

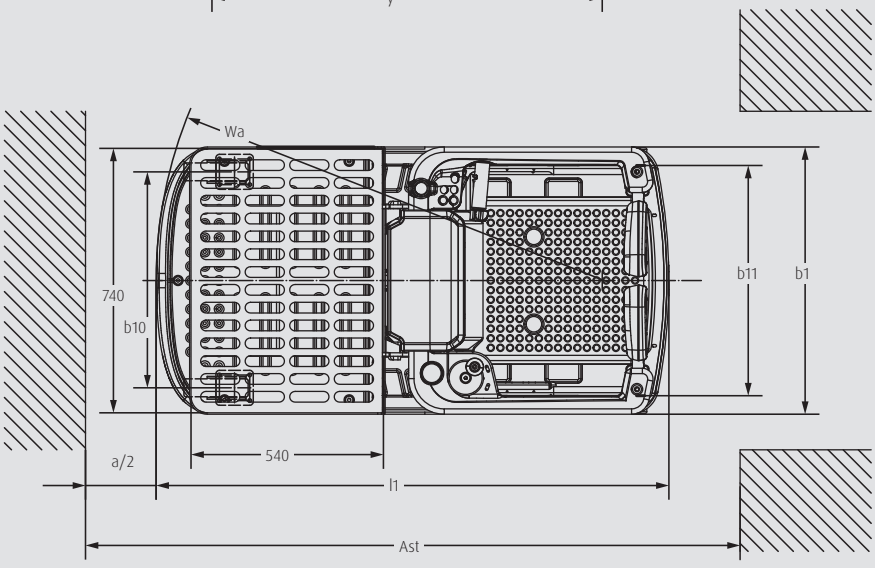
Vehicle for versatile warehouse applications

→ Overall length of only 1440 millimetres ensures easy manoeuvrability
→ Platform lift up to 3 metres enables order picking on the second and third racking level
→ Stable structure for load capacity up to 100 kilograms
→ Li-ION battery can be charged at any time and increases vehicle availability

TECHNICAL DATA (According to VDI 2198)

Characteristics	1.1	Manufacturer		Linde MH
	1.2	**Model**		**MV01**
	1.2.a	Series		8905
	1.3	Power Unit		Battery
	1.4	Operation		Multi Function Vehicle
	1.5	Load capacity/Load	Q_1 (t)	0.09
			Q_2 (t)	0.11
			Q_3 (t)	0.136
	1.9	Wheelbase	y (mm)	1095
Weights	2.1	Service weight	(kg)	770
	2.2	Axle load with load, front/rear	(kg)	550/560
	2.3	Axle load without load, front/rear	(kg)	375/395
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		PU + PU/R
	3.2	Tyre size, front		Φ 210 × 70
	3.3	Tyre size, rear		Φ 250 × 100
	3.4	Auxiliary wheels (dimensions)		Φ 74 × 48
	3.5	Wheels, number front/rear (x = driven)		1x + 2/2
	3.6	Track width, front	b10 (mm)	545
	3.7	Track width, rear	b11 (mm)	640
Dimensions	4.2	Height of mast, lowered	h1 (mm)	1425
	4.4	Lift	h3 (mm)	3620
	4.5	Height of mast, extended	h4 (mm)	4100
	4.7	Height of overhead guard (cabin)	h6 (mm)	1375
	4.8	Seat height/standing height)	h7 (mm)	275
	4.14	Stand height, elevated	h12 (mm)	3000
	4.19	Overall length	l1 (mm)	1440
	4.21	Overall width	b1/b2 (mm)	750
	4.32	Ground clearance with load, center of wheelbase	m2 (mm)	35
	4.35	Turning radius	Wa (mm)	1260
Performance	5.1	Travel speed, with/without load (H: 0 – 500 mm)	(km/h)	6/6.5
		Travel speed,with/without load (H: 500 – 1000 mm)	(km/h)	3
		Travel speed, with/without load (H: 1000 – 2000 mm)	(km/h)	2
		Travel speed,with/without load (H: 2000 – 3000 mm)	(km/h)	1
	5.2	Lifting speed, with/without load (Q3)	(m/s)	0.213/0.225
		Lifting speed, with/without load (Q1)	(m/s)	0.023/0.028
	5.3	Lowering speed, with/without load (Q3)	(m/s)	0.230/0.233
		Lowering speed, with/without load (Q1)	(m/s)	0.030/0.029
	5.8	Max. gradeability, laden/unladen	(%)	5/8
	5.10	Service brake		Electromagnetic
Drive	6.1	Drive motor rating S2 60 min	(kW)	0.65
	6.2	Lift motor rating	(kW)	2.2
	6.4	Battery voltage, nominal capacity K5	(V/Ah)	24/135
	6.5	Battery weight	(kg)	35
	6.6	Power consumption according to VDI cycle	(kWh/h)	0.387
Others	8.1	Type of drive unit		Brushless DC
	8.4	Noise level	(dB(A))	74





*Actual height depending on operator

Linde
MV01

STANDARD AND OPTIONAL EQUIPMENT

	Model/Equipment	MV01
Safety	Rear flashing beacon	○
	Front BlueSpot®	○
	Automatic locking doors	●
	Acoustic signal descending platform	●
	Acoustic signal (reverse or forward/backward driving)	○
	Automatic speed reduction when cornering	●
	Automatic speed reduction when lifting platform	●
	Interlock sensor on right handle for operating	●
	Key switch	●
Service	CAN bus technology	●
Workplace	Lifting platform up to 3 meters	●
	Multifunctional display	●
	Compact steering wheel integrated into the console	●
	Electrically adjustable storage tray up to 90 kg	●
	Storage: paperwork, pens, gloves, two bottles compartments	●
Tyres	Drive wheel polyurethane	●
	Load wheel rubber	●
Drive and Brake-System	0.65 kW brushless DC motor (maintenance free)	●
	Electromagnetic braking system	●
	Li-ION battery 24 V/135 Ah	●
	Built-in Li-ION 30 Ah charger	●

● Standard equipment ○ Optional equipment

CHARACTERISTICS

Safety sensor on right handle

Safety

→ Reduction of the speed when the cabin is raised
→ Automatic door interlock to protect the operator when raising the platform
→ Sensor on single right handle reduces risk of injury
→ Single foot pedal as dead man's switch
→ Warning lights and signal tones increase safety around the vehicle

Spacious operator compartment

Ergonomics

→ Spacious and comfortable operator`s compartment
→ Ergonomic arrangement of the controls
→ Electrically adjustable storage tray as standard
→ Storage compartments for paper work and small bottle of water
→ Integrated charger enables opportunity charging of the Li-ION battery and increases vehicle availability

Optimised 1st and 2nd level order picking

Handling

→ Lifting platform up to 3 meters height for effortless access to the second and third rack level
→ Powerful DC motor ensures a top speed of up to 6.5 km/h
→ Compact dimensions increase manoeuvrability in narrow aisles and curves
→ Electrical steering for effortless manoeuvrability and safe, highly efficient load handling
→ Built-in Li-ION battery 24 V 135 AH

All information at a glance

Service

→ Maintenance-free Li-ION batteries contribute to high energy efficiency and vehicle availability
→ Battery management system ensures high performance and long battery life
→ Low-maintenance brushless DC drive motor reduces service costs
→ CAN bus connection ensures simple service processes
→ Key vehicle components are easily accessible

Presented by:

Subject to modification in the interest of progress. Illustrations and technical details could include options and are not binding for actual constructions. All dimensions subject to usual tolerances.

Linde Material Handling

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