Linde Material Handling

Automated Pallet Stacker

L-MATIC core

Capacity 1.2 t | Series 1195-01

ION

Compact load carrier

→ Load capacity up to 1.2 tonnes, maximum lifting height up to 1.84 metres (storage height: 1.78 metres)

→ Ideal for transporting goods at ground level, serving conveyor belts, or storing and retrieving items close to the ground

→ Suitable for use in confined spaces thanks to compact design with an aisle width of less than 2.5 metres

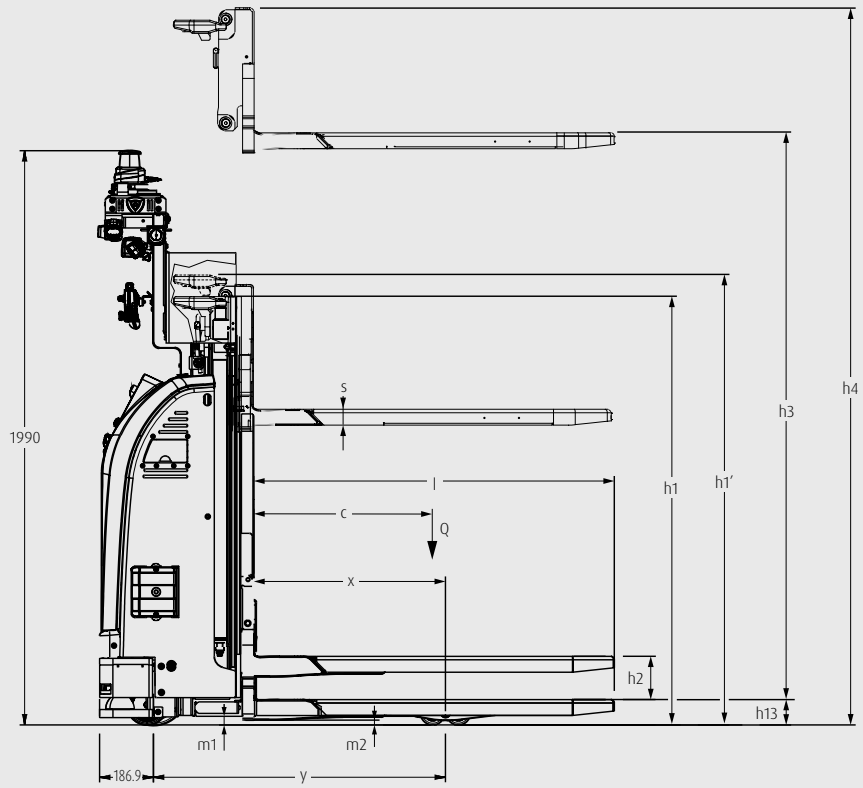
→ Quick commissioning in combination with Linde MATIC:move software

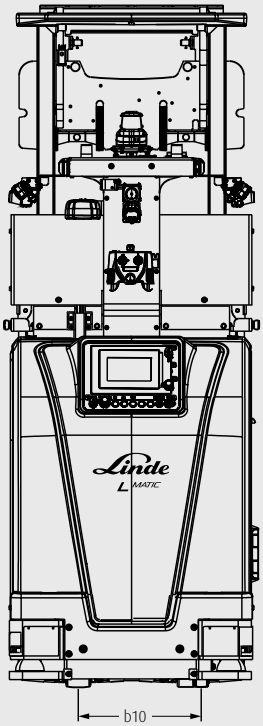
→ Perfect solution for mixed operation and brownfield projects

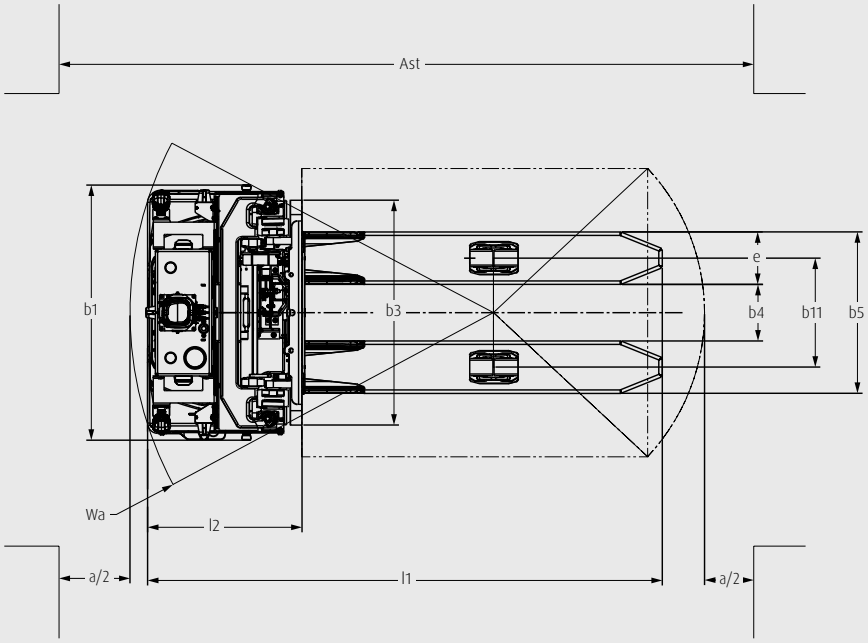
TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH
	1.2	**Manufacturer's type designation**		**L-MATIC core**
	1.2a	Series		1195-01
	1.3	Drive		Battery
	1.4	Operation		Manual/automatic
	1.5	Rated capacity/rated load	Q (t)	1.2
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	665
	1.9	Wheelbase	y (mm)	1013
Weight	2.1	Service weight	kg	850
	2.2	Axle loading, laden front/rear	kg	695/1355
	2.3	Axle loading, unladen front/rear	kg	670/180
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		V+P/P
	3.2	Tyre size, front		Ø 230 × 90
	3.3	Tyre size, rear		Ø 85 × 65
	3.4	Additional wheels (dimensions)		Ø 140 × 54
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 1/4
	3.6	Tread, front	b10 (mm)	426.5
	3.7	Tread, rear	b11 (mm)	380
Dimensions	4.2	Mast height, lowered	h1 (mm)	1415
	4.3	Free lift	h2 (mm)	264
	4.4	Lift	h3 (mm)	1844
	4.5	Mast height, extended	h4 (mm)	2364
	4.15	Height, lowered	h13 (mm)	86
	4.19	Overall length	l1 (mm)	1785
	4.20	Length to fork face	l2 (mm)	535
	4.21	Overall width	b1 (mm)	887
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	55/182/1250
	4.24	Fork carriage width	b3 (mm)	780
	4.25	Fork spread	b5 (mm)	560
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	196
	4.31	Ground clearance, laden, below mast	m1 (mm)	30
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	17
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2148[1]/2750[2]
	4.34.2	Aisle width with pallet 800 × 1200 lengthways	Ast (mm)	2129[1]/2480[2]
	4.35	Turning radius	Wa (mm)	1261[1]
Performance	5.1	Travel speed, laden/unladen	km/h	4/4[1] 6.0/7.2[2]
	5.2	Lifting speed, laden/unladen	m/s	0.19/0.3
	5.3	Lowering speed, laden/unladen	m/s	0.31/0.24
	5.10	Service brake		Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min	kW	1.5
	6.2	Lift motor rating at S3 15%	kW	3.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		Li-ION: 1P8S 206
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	24/206
	6.5	Battery weight (±5%)	kg	66
	6.6	Energy consumption according to DIN EN 16796	kWh/h	0.57
Drive/lifting mechanism	8.1	Type of drive unit		LAC

1) Manual operation
2) Automated operation


1990
s
l
c
Q
x
h4
h3
h1
h1'
h2
h13
m1
m2
186.9
y


Linde
MATIC
b10


Ast
b1
b3
e
b4
b11
b5
Wa
l2
a/2
l1
a/2

MAST TABLES

STANDARD MAST (in mm)

Lift	h3: 1844
Height measurements	h1: 1415 h1′: 1565 h2: 264 h2′: 150 h4: 2364 h3+h13: 1930 h*: 1780
Manufacturer's type designation	
L-MATIC core	●

● Standard equipment

h1: Mast height, lowered
h4: Mast height, extended
h2: Free lift driving[1]
h3+h13: Lift + fork height
h1′: Mast height, with used free lift h2 (h1′= h1+h2/2)
h*: Maximum automated storage height[2]
h2′: Free lift storage[3]
h3: Lift

[1] With extended mast h1′, free lift for AGV safety scanner while driving
[2] Under consideration of free lift and load detection, the following connection applies to the maximum load deposit height/pick-up height h*: = h3 + h13 – h2′
[3] Free lift for storage and retrieval of load carriers

STANDARD AND OPTIONAL EQUIPMENT

	Manufacturer's type designation/equipment	L-MATIC core
Safety	360° safety scanner	●
	2D laser protection curtain in direction of travel for detecting objects above ground level	○
	2D laser protection curtain on the sides for detecting objects above ground level	○
	Linde BlueSpot – visual drive path warning for pedestrians and co-workers	○
	Visual warnings – multicolour flashing lights indicating vehicle status	●
	Acoustic warning signals	●
	Red warning lights at sides – red lines projected onto floor at either side of the vehicle	○
	Red warning lines in direction of travel – red lines projected onto floor in direction of travel	○
	Emergency stop buttons mounted on either side of vehicle	●
Operation/load handling	Safety fields for standard load carrier, EPAL1 longitudinal transport compact*	●
	Safety fields for standard load carrier, longitudinal transport*	●
	Safety fields for standard load carrier, transverse transport*	●
	Pallet cage detection	○
	Stacked load detection	○
	Soft landing of forks	●
	Increased navigation laser height for MATIC fleet (2424 mm)	○
	Manual control unit	●
	Load backrest	○
Digitalisation	Data transmission WiFi	●
Mast	Standard mast, 1844/1415/264 mm	●
	Polycarbonate mast protection	●
Attachment/forks	Width over forks: 560 mm	●
	Fork length: 1250 mm	●
Axles and tyres	Single castor wheel	●
	Drive wheel, polyurethane	●
	Single load wheel, polyurethane	●
Energy	Li-ION battery	●
	Charging contacts for automated opportunity charging	●
	Charging station for automated charging	○
	Charger (120A or 225A)	○

● Standard equipment ○ Optional equipment

* One preconfigured safety field for standard load carrier available per truck

CHARACTERISTICS

Comprehensive safety features

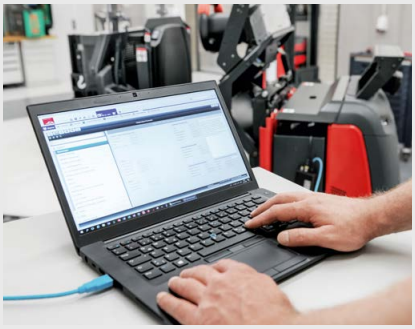
Safety

→ Comprehensive safety package protects load and surroundings
→ 360° safety scanner for continuous environmental monitoring
→ Automatic and proactive system for speed control and braking before obstacles
→ Additional protection provided by acoustic and visual warning systems
→ Optional 2D laser curtain for detecting objects suspended above ground level
→ Easily accessible emergency stop buttons permit manual intervention

Safe and precise handling

Handling

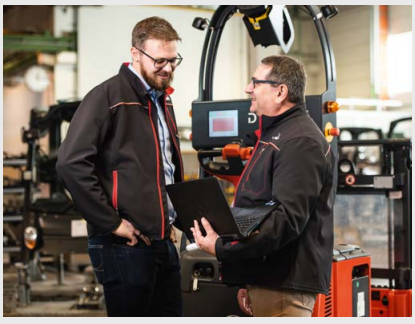
→ Speed adjustment to different working situations enables a constant material flow
→ Load detection sensors for smooth pickup and deposit of loads
→ Automatic charging process ensures 24/7 operation
→ Touchscreen with intuitive user interface
→ MATIC:move control software for efficient task, traffic and energy management



Quick and efficient service

Service

→ Latest service standard for automated vehicles
→ Digital twin guarantees vehicle status is fully transparent
→ Electronic service tools support local service technicians
→ Fast maintenance and repair from skilled, Linde-trained engineers
→ High vehicle availability and low operating costs



Process-oriented as standard

Sales and realisation

→ Custom-automated solutions with dynamic simulation and the ability to perform a practical demonstration on site
→ Analysis of manual handling processes and recommendation of the appropriate degree of automation to suit customer needs
→ Comprehensive and scalable software solutions for fast commissioning, flexible adjustments and optimum process control

Presented by:

Linde Material Handling

Linde Material Handling GmbH
Carl-von-Linde-Platz | 63743 Aschaffenburg | Germany
Phone + 49 6021 99 0 | Fax + 49 6021 99 1570
www.linde-mh.com | info@linde-mh.com

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