



Automated Pallet Stacker

L-MATIC AC k

Capacity 1.4 t | Series 1171

ION

PB

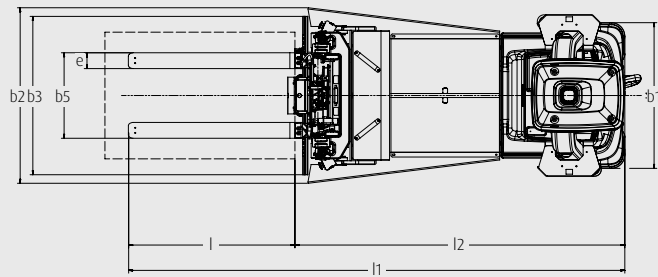
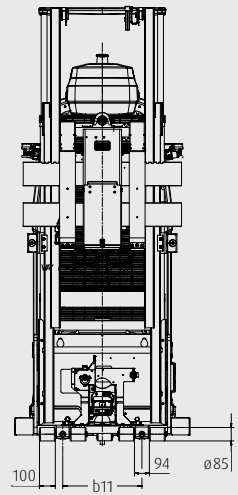
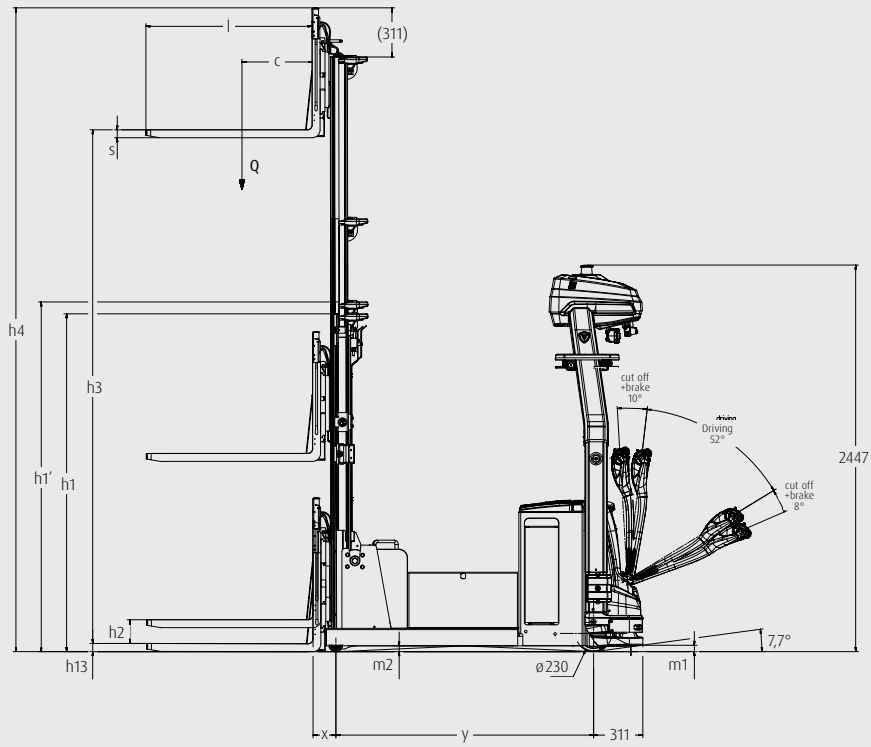
Flexible use for optimised automation

- Automated counterbalance pallet stackers for flexible load handling
- Cantilevered fork for pick-up of closed load carriers
- Capacity up to 1400 kg and storage height up to 3.8 metres
- Ideal for ground transport and storage/retrieval in wide-aisled warehouses
- Flexible handling of standard and special load carriers
- Various fork lengths and variants available

TECHNICAL DATA (according to VDI 2198)

Characteristics	1.1	Manufacturer (abbreviation)		Linde MH
	1.2	Manufacturer's type designation		L-MATIC AC k
	1.2a	Series		1171-01
	1.3	Drive		Battery
	1.4	Operation		manual/autonomous
	1.5	Rated capacity/rated load	Q (t)	1.4
	1.6	Load centre distance	c (mm)	525
	1.8	Load distance, centre of drive axle to fork	x (mm)	145
	1.9	Wheelbase	y (mm)	1627
Weight	2.1	Service weight	kg	2458 ¹⁾
	2.2	Axle loading, laden front/rear	kg	709/3149 ¹⁾
	2.3	Axle loading, unladen front/rear	kg	1286/1172 ¹⁾
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane
	3.2	Tyre size, front		Ø 230 × 100
	3.3	Tyre size, rear		Ø 85 × 105
	3.5	Wheels, number front/rear (x = driven wheels)		1x/4
	3.6	Tread, front	b10 (mm)	-
	3.7	Tread, rear	b11 (mm)	500
	Dimensions	4.2	Mast height, lowered	h1 (mm)
4.3		Free lift	h2 (mm)	150
4.4		Lift	h3 (mm)	4144
4.5		Mast height, extended	h4 (mm)	4966
4.6		Initial lift	h5 (mm)	-
4.7		Height of overhead guard (cabin)	h6 (mm)	n.a.
4.19		Overall length	l1 (mm)	3133
4.20		Length to fork face	l2 (mm)	2083
4.21		Overall width	b1/b2 (mm)	920/1109
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	50/100/1050
4.23		Fork carriage to ISO 2328, class/type A, B		2 B
4.24		Fork carriage width	b3 (mm)	1000
4.25		Fork spread	b5 (mm)	540
4.31		Ground clearance, laden, below mast	m1 (mm)	30
4.32		Ground clearance, centre of wheelbase	m2 (mm)	38
Electric-engine	6.1	Drive motor rating S2 60 min	kW	2.3
	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: LOF3
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) or kWh	9 kWh
	6.5	Battery weight (±5%)	kg	290
Drive/lifting mechanism	8.1	Type of drive unit		LAC
Additional data	10.7	Sound pressure level LpAZ (at the operator's seat)	dB(A)	61

1) Including battery, line 6.4/6.5.



MAST TABLES

STANDARD MAST (in mm)

Lift	h3: 4144
Height measurements	h1: 2583 h1': 2658 h2: 150 h3+h13: 4194 h4: 4655+311
Manufacturer's type designation	
L-MATIC AC k	●

- Standard equipment

h1: Mast height, lowered

h3: Lift

h1': Lifting height while driving (mast S)

h3+h13: Lifting height + fork height

h2: Free lift

h4: Mast height, extended

Note: For standard masts, the freelif h2 is depending on h1'

STANDARD AND OPTIONAL EQUIPMENT

Manufacturer's type designation/equipment		L-MATIC AC k
Safety	360° safety scanner	●
	2D laser protection curtain in direction of travel 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	●
	Emergency-off buttons easily accessible from all surrounding positions (emergency-off switches)	●
Operation/ load handling	Safety field for transverse transport of standard load carriers	●
	Load backrest	●
Digitalisation	Data transmission WiFi	●
Mast	Standard mast 4144/2583/150 mm	●
Attachments/ forks	Fork length: 1050 mm	●
	Width of forks: 100 mm	●
	Height of forks: 50 mm	●
Axles and tyres	Polyurethane drive wheel	●
	Polyurethane single load wheel	●
Energy	The lithium-ion battery	●
	Charging contacts for automated opportunity charging	●
	Charging station for automated charging	○
	Charger (120A or 225A)	○

● Standard equipment ○ Optional equipment

CHARACTERISTICS



Safety ensured by comprehensive sensor system

Safety

- 360° safety scanner with automatic speed adjustment
- Laser-based safety technology for high driving speeds
- Optional 2D laser curtain detects objects above ground level
- Extensive sensors for load and environment detection
- Acoustic and optical warning signals plus emergency-off switch



Flexible handling thanks to cantilever fork arms

Handling

- Direct pick-up of closed load carriers from the ground
- Seamless connection to Linde Warehouse Manager
- Scalable fleet solution thanks to MATIC:move/MATIC:move+ control software
- Optional sensors for detecting stacked load carriers
- Easy integration into existing warehouse systems
- Optional automatic charging function for continuous operation



Service-friendly design

Service

- Comprehensive service network enables fast maintenance
- Digital twin for safe software and hardware maintenance
- Downtime minimized thanks to predictive maintenance
- Modern diagnostic tools for efficient on-site service
- Reliable availability of spare parts



Process-oriented as standard

Sales and realisation

- Individual, automated solutions with dynamic simulation and the option to run a demo in a real process environment on site
- Analysis of manual handling processes and optimisation of the degree of automation as required for specific customer needs
- The control software MATIC:move for simple applications with a few trucks and MATIC:move+ for complex tasks offer flexible adaptations, a high level of scalability and optimum process control

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

Presented by:



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