



## Automated Pallet Stacker

# L-MATIC AC k

Capacity 1.4 t | Series 1171

ION

PB

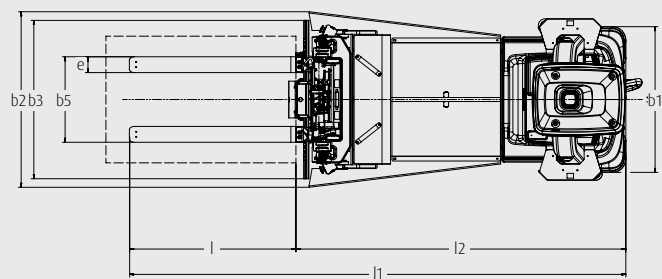
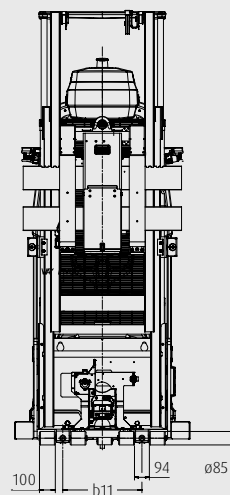
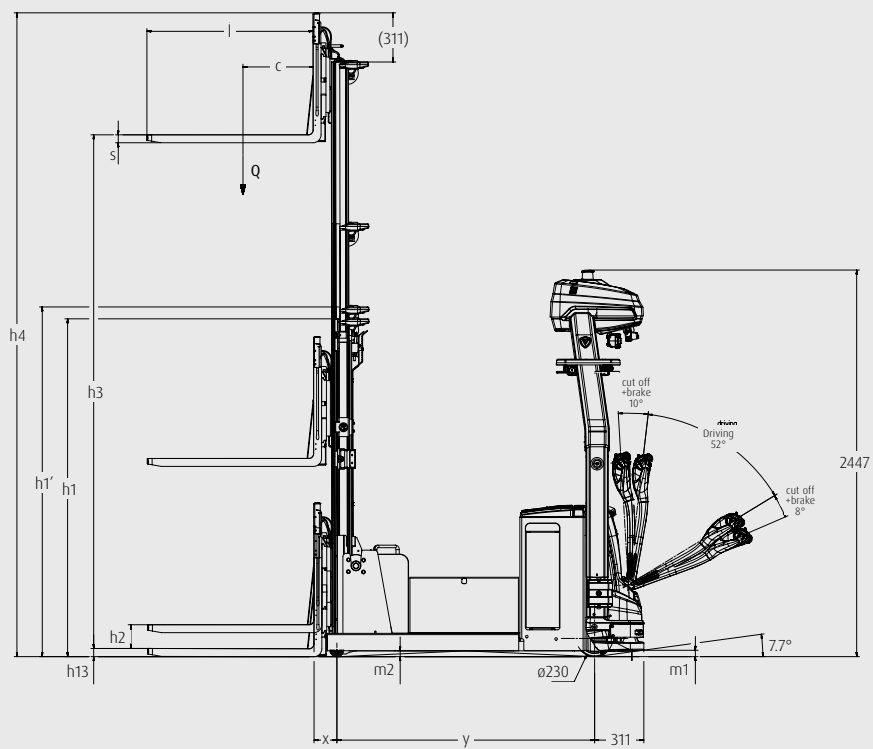
### Flexible use for optimised automation

- 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	Linde MH
	1.2	Manufacturer's type designation		L-MATIC 12 AC k	L-MATIC 16 AC k
	1.2a	Series		1171-01	1171-01
	1.3	Drive		Battery	Battery
	1.4	Operation		manual/automatic	manual/automatic
	1.5	Rated capacity/rated load	Q (t)	1.0	1.4
	1.6	Load centre distance	c (mm)	525	525
	1.8	Load distance, centre of drive axle to fork	x (mm)	145	145
	1.9	Wheelbase	y (mm)	1262	1627
Weight	2.1	Service weight	kg	2391 <sup>1)</sup>	2486 <sup>1)</sup>
	2.2	Axle loading, laden front/rear	kg	708/2683 <sup>1)</sup>	779/3107 <sup>1)</sup>
	2.3	Axle loading, unladen front/rear	kg	1239/1152 <sup>1)</sup>	1356/1130 <sup>1)</sup>
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane
	3.2	Tyre size, front		Ø230×100	Ø230×100
	3.3	Tyre size, rear		Ø85×105	Ø85×105
	3.5	Wheels, number front/rear (x = driven wheels)		1x/4	1x/4
	3.6	Tread, front	b10 (mm)	-	-
Dimensions	4.2	Mast height, lowered	h1 (mm)	2015	2015
	4.4	Lift	h3 (mm)	2844	2844
	4.5	Mast height, extended	h4 (mm)	3639	3639
	4.19	Overall length	l1 (mm)	2768	3133
	4.20	Length to fork face	l2 (mm)	1718	2083
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	50/100/1050	50/100/1050
	4.25	Fork spread	b5 (mm)	540-850	540-850
	4.31	Ground clearance, laden, below mast	m1 (mm)	30	30
Electric-engine	6.1	Drive motor rating S2 60 min	kW	2.3	2.3
	6.2	Lift motor rating at S3 15%	kW	3.2	3.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		43535 B	43535 B
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah) o. kWh	24/375	24/500
Drive	8.1	Type of drive unit		LAC	LAC

1) Figures with battery, see line 6.4/6.5



# MAST TABLES

## STANDARD MAST (in mm)

Lift	h3:2844	h3: 3244	h3: 3744	h3: 4144
Height measurements	h1: 2015	h1: 2215	h1: 2465	h1: 2665
	h1': 2090	h1': 2290	h1': 2540	h1': 2740
	h2: 150	h2: 150	h2: 150	h2: 150
	h3+h13: 2994	h3+h13:3294	h3+h13: 3794	h3+h13: 4194
Manufacturer's type designation	h4: 3639	h4: 4039	h4: 4539	h4: 4939
L-MATIC AC k	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

☐ Optional equipment

- h1:** Mast height, lowered
- h1':** Lifting height while driving (mast S)
- h2:** Free lift
- h3:** Lift
- h3+h13:** Lifting height + fork height
- 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	●
	Visual warning indicators – multicolour flashing lights indicating vehicle status (warnings and alarms)	●
	Acoustic warning signals	●
	Emergency stop buttons (emergency stop switches) easily accessible from all surrounding positions	●
	2D laser protection curtain in the direction of travel for detecting obstacles above ground level	○
	2D laser protection curtains, laterally mounted, for detecting obstacles above ground level	○
	Linde BlueSpot – visual drive path warning for pedestrians and co-workers	○
	Red warning lines in the direction of travel – lights project red markings onto the ground in the direction of travel	○
	Red warning lines at sides – red lines projected onto floor at either side of the vehicle	○
Operation/ load handling	Load backrest	○
	Soft landing of the forks	●
	Safety fields for longitudinal transport with different fork lengths	○
	Safety fields for lateral transport with different fork lengths	○
	Pallet detection for standard pallets, e.g. EPAL1, industrial pallet, chemical pallet	●
	Pallet detection for customer-specific load carriers	○
	Sensor for detecting stacked loads	○
Digitalisation	Wi-Fi data transmission	●
Mast	Standard mast 2844/2015/150 mm	○
	Standard mast 3244/2215/150 mm	○
	Standard mast 3744/2465/150 mm	○
	Standard mast 4144/2665/150 mm	○
Attachments/ forks	Fork 850/100/50 mm	○
	Fork 1050/100/50 mm	○
	Fork 1250/100/50 mm	○
Axles and tyres	Polyurethane drive wheel	●
	Polyurethane single load roller	●
Energy	Lead-acid battery 375 Ah, 500 Ah	○
	Li-ION battery 6/9/12 kWh	○
	Charging contacts for automated intermediate charging	○
	Charging station for automated charging	○
	Lead-acid chargers	○
	Li-ION chargers	○

● 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 switches



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 minimised thanks to predictive maintenance
- Modern diagnostic tools for efficient on-site service
- Reliable availability of spare parts



Process-oriented as standard

## Sales and realisation

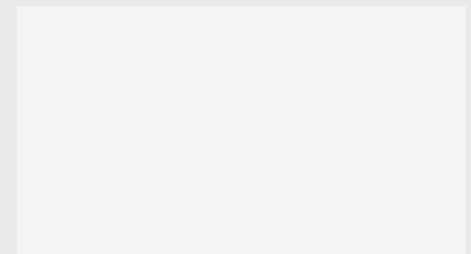
- Individual, automated solutions with dynamic simulation and the option to run a demo in a real process environment on site
- Analysis of manual handling processes and optimisation of the degree of automation as required for specific customer needs
- The control software MATIC:move for simple applications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

Presented by:



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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.