

Pallet Stackers

L14 - L16 SP

Capacity 1.4 t - 1.6 t | Series 1177

Flexible lifting talent

- → Versatile pallet stacker for storage and retrieval at a height of up to 5.3 metres and for longer transport journeys
- ightarrow Solid steel skirt around the standing platform for effective protection in case of collision
- → Unique platform concept with standing position at 45° angle and Linde e-driver control for better all-round vision and an ergonomic posture
- → Linde OptiLift assistance system for precise mast control and energy-efficient load handling
- → Innovative castor wheel concept for maximum stability when storing and retrieving at height

STANDARD AND OPTIONAL EQUIPMENT

	Model/equipment	L14 SP	L16 SP
	Automatic speed reduction when cornering	•	•
	Key switch	•	•
ety	Log in PIN code		0
Safety	Unique, safe and intuitive 45° operating position	•	•
	BlueSpot® option – visual warning of truck presence integrated in the chassis contours		0
	Foot detection sensor – truck slows down or stops if operator's foot is detected outside of the platform contours	0	0
Digitalisation Service	CAN bUS technology	•	•
	Data transmission online		
atio	Data transmission Wifi		
alis	Linde connect:desk – local fleet management with different functional modules	0	0
gita	Linde connect:cloud - fleet management as a service (hosted version)	0	0
Ξ	Linde Pre-Op Check App – individualisable daily check protocol for operational readiness	0	0
	Initial lift	0	0
pe	Ultra-fast lifting	0	0
Jos ng	Soft landing on forks	0	0
ioi iib	Low speed if initial lift lowered	0	0
Operation/load handling	Maximum operating speed limitation (8, 10, 12 km/h, depending on the model)	0	0
0 do	Load backrest h = 1000 mm	0	0
	Overhead guard	0	0
Environ- ment	Coldstore -35°C (in/out) – with grid or standard floor mat	0	0
<u> </u>			
	Fully suspended operator compartment – both feet platform and steering unit are suspended	•	•
	Padded leg rest and backrest	•	•
	Twin-grip handlebar	•	
به	Innovative Linde e-driver control perfectly suited for operation at a 45° angle in standing position	0	0
olac	Height adjustable steering unit	0	0
Workplace	Multi-function coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code	•	•
Š	indication Accessory support	0	0
	Support for data terminal and power supply cable 24 V	0	0
	Scanner support and clipboard	0	0
	Electrical socket USB 5 V	0	0
	Standard	0	0
	Simplex	0	0
Mast	Duplex	0	0
٤	Triplex	0	0
	Mast protection: mesh	0	0
- Ks			
Attach- ment/forks	Width over fork carriage 560 mm with fork length 950 mm or 1150 mm	0	0
At	Width over fork carriage 680 mm with fork length 1150 mm	0	0
	Drive wheel heavy duty, polyurethane non-marking	•	•
уге	Drive wheel high grip, polyurethane non-marking	0	0
Axles and tyres	Drive wheel rubber	0	0
es al	Single load wheel, polyurethane	•	•
λ×Ιε	Tandem load wheel, polyurethane (also available in greasable version)	0	0
	Double castor wheel (also available in greasable version)	•	•
6	Power steering	•	•
kin	Maintenance-free AC motor	•	•
bra em	Electromagnetic braking system (or electromechanic)	•	•
Drive and braking system	Li-ION and lead acid technology available with different battery capacities depending on the model	0	0
Oriv	Integrated charger for lead acid and Li-ION batteries	0	0
	External chargers available	0	0
Lighting	Working lamp – with on/off switch for operation in dark environments	0	0

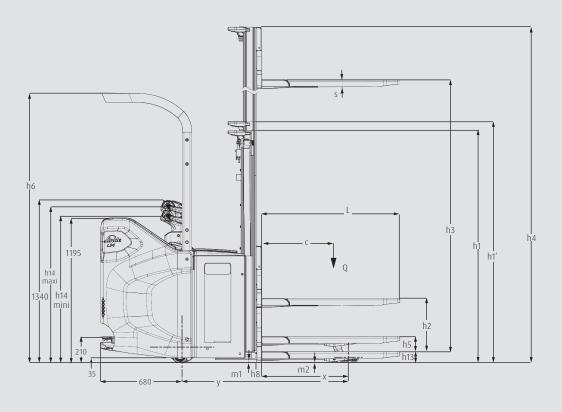
TECHNICAL DATA (according to VDI 2198)

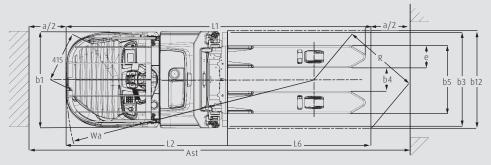
4.5				Linde MH
1.2	Model		L14 SP	L16 SP
1.2a	Series		1177-00	1177-00
1.3	Power unit		Battery	Battery
1.4	Operation		Stand on	Stand on
1.5	Load capacity/Load	Q (t)	1.4/(2.0) 1)	1.6/(2.0) 1)
1.6	Load centre distance	c (mm)	600	600
1.8	Axle centre to fork face	x (mm)	654/724 ^{2) 3)}	654/724 ^{2) 3)}
1.9	Wheelbase	y (mm)	1316/1386 ^{2) 3)}	1316/1386 ^{2) 3)}
2.1	Service weight	kg	1660 ^{4) 5)}	1660 ^{4) 5)}
2.2	Axle load with load, front/rear	kg	1763/1297 4) 5)	1954/1306 ^{4) 5)}
2.3	Axle load without load, front/rear	kg	420/1240 ^{4) 5)}	420/1240 4) 5)
3.1	Tyres rubber, SE, pneumatic, polyurethane		Polyurethane	Polyurethane
3.2	Tyre size, front		Ø 254 × 102	Ø 254 × 102
3.3	Tyre size, rear		Ø 85 × 85 (2x Ø 85 × 60) 6)	Ø 85 × 85 (2x Ø 85 × 60) ⁶⁾
3.4	Auxiliary wheels (dimensions)	_	2x Ø 140 × 50	2x Ø 140 × 50
3.5	Wheels, number front/rear (x = driven)		1x + 1/2 (1x + 1/4) 6)	1x + 1/2 (1x + 1/4) 6)
3.6	Track width, front	b10 (mm)	491 ²⁾	491 ²⁾
3.7	Track width, rear	b11 (mm)	380/500 ²⁾	380/500 ²⁾
4.2	Height of mast, lowered	h1 (mm)	2265 ²⁾	2265 2)
4.3	Free lift	h2 (mm)	1745 ²⁾	1745 ²⁾
4.4				5316 ²⁾
	-			5836 ²⁾
				1157)
				2224 2)
				2259/1357 2)
		, ,		80 8)
				86 8)
				2467 2)
	•			1347 2)
				800 ²⁾
				71 × 180 × 1150 °)
		. , ,		780 ²⁾
				560/680 ²⁾
		, ,	,	196/316 ²⁾
				135/20 ³⁾
	,			
	,			2894/2931 ^{3) 10)} 2878/2893 ^{3) 10)}
				2001/2071 3)
				9.5/9.5 11)
				0.17/0.39 (0.57/0.89) 5) 12)
				0.26/0.17 (0.68/0.72) 5) 12)
			-	-
			60/51	6.0/5.1
				electric/mechanic
		kW		3
	-			3.2
				43 535 B/3PzS
		(V)/(Ah) o. kWh		24/375
				333
6.6		kWh/h		-
			-	-
		_		70.0
6.8			33	35
	Type of drive unit		KWPC 05	KWPC 05
	Sound pressure level LpAZ (at the operator's seat)	dB(A)	67	67
	1.3 1.4 1.5 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.4 3.5 3.6 3.7 4.2 4.3 4.4 4.5 4.6 4.7 4.9 4.10 4.15 4.19 4.20 4.21 4.22 4.24 4.25 4.24 4.25 5.1 5.2 5.3 5.8 5.9 5.10 6.1 6.2 6.3 6.4 6.5 6.6 6.6 6.6 6.7	1.3 Power unit 1.4 Operation 1.5 Load capacity/Load 1.6 Load centre distance 1.8 Axle centre to fork face 1.9 Wheelbase 2.1 Service weight 2.2 Axle load with load, front/rear 2.3 Axle load without load, front/rear 3.1 Tyres rubber, SE, pneumatic, polyurethane 3.2 Tyre size, front 3.3 Tyre size, front 3.4 Auxiliary wheels (dimensions) 3.5 Wheels, number front/rear (x = driven) 3.6 Track width, front 3.7 Track width, rear 4.2 Height of mast, lowered 4.3 Free lift 4.4 Lift 4.5 Height of mast, extended 4.6 Initial lift 4.7 Height of worthead guard (cabin) 4.9 Height of liller arm in operating position, min/max 4.10 Height of reach legs 4.15 Height, lowered 4.20 Length to fork face 4.21 Overall width 4.22 Fork dimensions DIN ISO 2331 4.24 Width of fork carriage 4.25 Fork spread 4.26 Distance between wheel arms/loading surfaces 4.31 Ground clearance, below mast 4.32 Ground clearance, centre of wheelbase 4.331 Ground clearance, centre of wheelbase 4.341 Aisle width for pallets 1000 × 1200 crossways 4.34.2 Aisle width with pallet 800 × 1200 along forks 5.1 Travel speed, with/without load 5.2 Lifting speed, with/without load 5.3 Lowering speed, with/without load 5.4 Lowering speed, with/without load 5.5 Acceleration time, with/without load 5.6 Acceleration time, with/without load 5.7 Evrice brake 6.1 Drive motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A,B,C,no 6.4 Battery voltage/rated capacity (5 h) 6.5 Battery weight (±5%) 6.6 Energy consumption according to DIN EN 16796 6.6 Turnover output according to DIN EN 16796 6.6 Turnover efficiency according to DIN 12198	1.3 Power unit	1.3 Power unit Battery Stand on Stand on 1.5 Load capacity/Load Q (t) 1.4/(20) ³ 600 1.4/(20) ³ 600 1.6/(20) ³ 600 1.6/(20) ³ 600 1.8 Aule centre to fork lace x (mm) 604/(724 a) 4 1.5

^{1) (}Load distribution, e.g. 1000 kg on the forks, 1000 kg on the fork arms, total load max. 2000 kg)

- 2) (±5 mm)
- 3) Load arms upraised/lowered
- 4) Figures with battery, see line 6.4/6.5.
- 5) (±10%)
- 6) Figures in parenthesis with tandem load wheels

- 7) (0/-5 mm)
- 8) (0/+5 mm)
- 9) Reach legs 75 × 150 × 1115 mm
- 10) Including a 200 mm (min.) operating aisle clearance
- 11) (±5%)
- 12) Figures in parenthesis with initial lift





STANDARD MAST (in mm)

Series	1177						
Lift	h3: 1844	h3: 2344	h3: 2844	h3: 3244	h3: 3744	h3: 4144	h3: 4644
Height measurements	h1: 1415 h2: 150 h3: 1844 h4: 2364 h1': 1490	h1: 1665 h2: 150 h3: 2344 h4: 2364 h1': 1740	h1: 1915 h2: 150 h3: 2844 h4: 3364 h1': 1990	h1: 2115 h2: 150 h3: 3244 h4: 3764 h1': 2190	h1: 2365 h2: 150 h3: 3744 h4: 4264 h1': 2440	h1: 2565 h2: 150 h3: 4144 h4: 4664 h1': 2640	h1: 2815 h2: 150 h3: 4644 h4: 5164 h1': 2890
Model							
L14 SP	0	0	0	0	0	0	0

SIMPLEX MAST (in mm)

Series	1177			
Lift	h3: 1462	h3: 1612		
Height measurements	h1: 1915 h2: 1395 h3: 1462 h4: 1982 h1': -	h1: 2065 h2: 1545 h3: 1612 h4: 2132 h1': -		
Model				
L14 SP	0	0		
L16 SP	0	0		

DUPLEX MAST (in mm)

Series			1177			
Lift	h3: 1844	h3: 2344	h3: 2844	h3: 3244	h3: 3744	h3: 4144
Height measurements	h1: 1415 h2: 895 h3: 1844 h4: 2364 h1': -	h1: 1665 h2: 1145 h3: 2344 h4: 2864 h1': -	h1: 1915 h2: 1395 h3: 2844 h4: 3364 h1': -	h1: 2115 h2: 1595 h3: 3244 h4: 3764 h1': -	h1: 2365 h2: 1845 h3: 3744 h4: 4264 h1': -	h1: 2565 h2: 2045 h3: 4144 h4: 4664 h1': -
Model						
L14 SP	0	0	0	0	0	0
L16 SP	0	0	0	0	0	0

TRIPLEX MAST (in mm)

Series	1177					
Lift	h3: 3516	h3: 4266	h3: 4716	h3: 5316		
Height measurements	h1: 1665 h2: 1145 h3: 3516 h4: 4036 h1': -	h1: 1915 h2: 1395 h3: 4266 h4: 4786 h1': -	h1: 2065 h2: 1542 h3: 4716 h4: 5236 h1': -	h1: 2265 h2: 1745 h3: 5316 h4: 5836 h1': -		
Model						
L14 SP	0	0	0	0		
L16 SP	0	0	0	0		

h1: Height of mast, lowered

h2: Free lift

h3: Lift

h4: Height of mast, extended h1': Height of mast, with initial lift

CHARACTERISTICS



Operator remains safe within the chassis contours

→ Electric power steering with adjustable steering resistance for effortless vehicle control in any work situation

energy-saving load handling, even at high working speeds

→ Linde OptiLift assistance system for precise control of mast functions and

→ Fully decoupled and suspended operator platform to protect the operator from vibrations and shocks

→ Solid steel apron around the standing platform protects the operator from injury in

→ Dead man's switch and traction control for the highest possible safety in every work

→ Foot detection automatically brings the vehicle to a smooth stop when operator's

→ Automatic braking when cornering to prevent risky operating manoeuvres

→ Optimised visibility through the mast for safe load handling

- → Unique design with 45° standing position and innovative steering concept Linde e-driver for optimum all-round vision without straining the back and neck
- → Workstation with multifunction display and storage compartments for work utensils and personal items (optional)



Ergonomic, height-adjustable tiller

Handling

Ergonomics

the event of collision

feet leave the platform

- → High lifting speeds for maximum handling performance
- → Ergonomic tiller with all control functions (traction motor, initial stroke, horn, etc.) for effortless vehicle handling
- → High residual capacities for efficient and safe stacking and transport of large loads
- → Initial lift function for better load handling on slopes, ramps or uneven ground
- → Soft-landing function to protect the load from damage by gently setting down the forks



Precise handling and easy manoeuvrability

Service

- → Maintenance-free three-phase motor for long service intervals and permanently low maintenance costs
- → Solid construction with durable parts and sturdy chassis for maximum vehicle availability
- → Effortless accessibility of all relevant components thanks to consistent design-to-service principle
- → Innovative CAN bus architecture for easy access to all vehicle data via diagnostic connector
- → Modern E/E architecture allows remote installation of updates and new functions



Easy access to all data with multi-function display

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.

