Standard and optional equipment

Standard equipment

- Folding stand-on platform with side guards
- Linde OptiLift®: fully proportional lifting control on the tiller head
- Initial lift with equalising linkage (level compensator) on L 14 APi and L 16 APi
- Soft stop lowering of fork carriage
- Electric power steering
- Linde Digital Control (LDC) with programmable operating parameters
- Automatic speed reduction when cornering
- Automatic braking with Linde Brake Control (LBC)
- Foot protection in pedestrian mode with platform folded up
- Polycarbonate/mesh mast protection
- Cushion rubber drive wheel
- Single polyurethane load wheels with string guard
- Twin polyurethane castor wheels
- Vertical battery change (2 and 3PzS)
- Protection to –10°C

Optional equipment

- Drive wheel: polyurethane, wet grip or treaded cushion rubber
- Load wheels: tandem polyurethane, tandem polyurethane greasable
- Load backrest (h=1000 mm)
- Alternative fork dimensions
- Alternative masts types and lift heights: standard, duplex, triplex
- Ultra-fast lifting for loads up to 300 kg
- Side battery change (2 and 3PzS)
- Battery changing stand or trolley for side battery change
- Built-in charger (vertical battery change, maximum 240 Ah capacity)
- Cold store protection to –35°C

Other options available on request

Electric Pallet Stackers
Capacity 1400 and 1600 kg
L 14AP, L 16AP, L 14APi, L 16APi SERIES 372

Linde Material Handling

Safety

Designed for medium lift storage/retrieval using open base pallets, the Linde electric pallet stacker is equipped with three independent braking systems. A special booster circuit prevents the truck rolling back when starting on a gradient. Automatic speed reduction when cornering optimises operational stability. The generously proportioned suspended rider platform has integral side guards which can be folded out to protect the operator. While operating in the pedestrian mode, the operator's feet are protected by a rubber strip at the base of the chassis.

Performance

A chassis width of only 800 mm allows the truck to work in narrow aisles with ease. Advanced chassis design and mast construction results in market-leading residual capacity. Linde OptiLift® control maximises lifting and lowering performance. Rated capacities of 1400 and 1600 kg and a 1.5 kW drive motor with a top speed of 9 km/h in the rider mode enables high productivity to be achieved.

Comfort

Electric power steering and the ergonomic Linde tiller arm facilitate ease of use. All controls can be operated with either hand without having to release the tiller. Road shocks from uneven ground are cushioned by the soft rubber mat on the platform. The operator has excellent visibility of the load right up to maximum lift height.

Reliability

These rugged trucks incorporate tried and tested technology and components to ensure consistent reliability. They have already proved their ability to deliver faster, safer load handling over an extended working life in the toughest industrial environments.

Productivity

Linde pallet stackers are designed to reduce maintenance costs and deliver the highest levels of productivity over many years. Fast, easy access to all components, and electronics sealed in aluminium housings, isolating them from road shocks, dust and humidity, all play a part in guaranteeing high availability.

Features

Chassis and mast

- → Rounded contours, no sharp edges
- → Heavy gauge steel chassis results in exceptional rigidity and durability
- → Foot protection in pedestrian mode with platform folded up
- → Suspended rider platform
- → Integral side guards, fold in and out in one easy movement
- → Rigid clearview mast optimises visibility
- → Wide range of masts

OptiLift® control

- → OptiLift® fully proportional lift control provides smooth, precise and quiet mast operation
- → Lift control lever mounted centrally on tiller head
- → High-performance, energy-efficient lift unit
- → Soft stop lowering of forks protects loads

Initial lift versions: L 14 APi and L 16 APi

- → Initial lift of forks increases ground clearance when operating on ramps, dock levellers or bridge plates
- → The equalising linkage provides enhanced stability when turning on uneven surfaces
- → A 2000 kg load can be carried using the initial lift function

Power steering

- → Effortless, electric power steering for ease of operation
- → Precise and easy manoeuvring with tiller designed to suit both pedestrian and ride-on operation
- → Automatic speed reduction when cornering guarantees stability

Brakes

Automatic braking

- → On releasing the traction control lever
- → By selecting the opposite direction of travel
- → By moving the tiller out of the travel zone

Emergency brake: emergency isolator interrupts all power to the truck and actuates the electro-mechanical brake

Tiller arm

- → The operator's hands are well protected by the sturdy aluminium guard
- → Central tiller position provides maximum manoeuvrability
- → All traction and lift functions are integrated into the tiller and can be operated with either hand

Motor

- → Powerful, smooth-running 1.5 kW DC traction motor
- → Adjustable LDC drive controller - all operating parameters can be customised to suit the application
- → No rollback when starting on a gradient
- → Maximum traction speed 9 km/h

Batteries and chargers

- → 24 V batteries from 250 Ah (2PzS) to 375 Ah (3PzS) capacity
- → Vertical battery change as standard (2 and 3PzS), side change as option
- → Wide range of battery chargers: standard wall-mounted type or high frequency chargers
- → Optional built-in charger for batteries with maximum 240 Ah capacity

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Linde Material Handling

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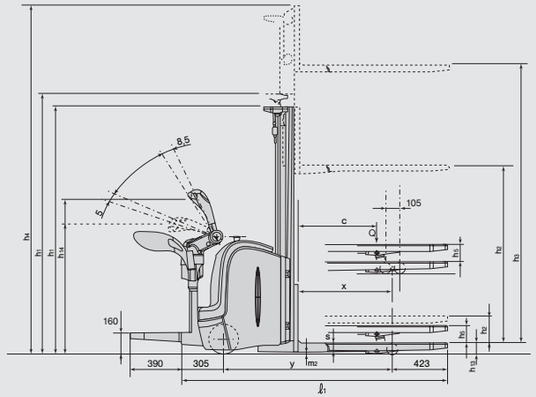
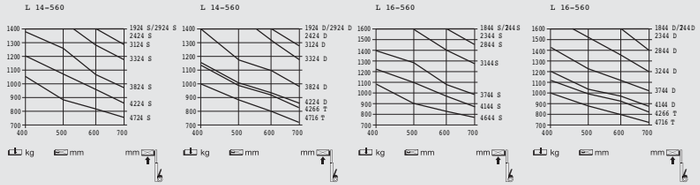
Technical data

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		L 14 AP	L 16 AP	L 14 APi	L 16 APi
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery	Battery	Battery	Battery
	1.4	Operation: manual, pedestrian, seated, stand-on, order picker		Pedestrian	Pedestrian	Pedestrian	Pedestrian
	1.5	Load capacity	Q (kg)	1400	1600	1400 (2000) [1]	1600 (2000) [1]
	1.6	Load centre	c (mm)	600	600	600	600
	1.8	Load distance	x (mm)	726	726	648/726 [2]	648/726 [2]
	1.9	Wheelbase	y (mm)	1303	1303	1225/1203 [2]	1225/1203 [2]
Weights	2.1	Service weight	kg	1240	1240	1230	1230
	2.2	Axle load with load, front (drive)/rear (load)	kg	[4]	[4]	[4]	[4]
	2.3	Axle load without load, front (drive)/rear (load)	kg	[4]	[4]	[4]	[4]
Wheels and tyres	3.1	Tyres: front (drive)/rear (load) C=cushion rubber, P=polyurethane		C+P/P	C+P/P	C+P/P	C+P/P
	3.2	Tyre size, front (drive)	mm	ø 230 x 90	ø 230 x 90	ø 230 x 90	ø 230 x 90
	3.3	Tyre size, rear (load)	mm	ø 85 x 85	ø 85 x 85	ø 85 x 85	ø 85 x 85
	3.4	Auxiliary wheels (dimensions)	mm	2x ø 140 x 50	2x ø 140 x 50	2x ø 140 x 50	2x ø 140 x 50
	3.5	Wheels, number front (drive)/rear (load) (x=driven)		1 x + 1/2	1 x + 1/2	1 x + 1/4	1 x + 1/4
	3.6	Track width, front (drive)	mm	520	520	520	520
	3.7	Track width, rear (load)	mm	380	380	380	380
Measurements	4.2	Height of mast, lowered	h1 (mm)	1990	1990	1990	1990
	4.3	Free lift	h2 (mm)	150	150	150	150
	4.4	Lift	h3 (mm)	2924	2844	2924	2844
	4.5	Height of mast, extended	h4 (mm)	3460	3380	3460	3380
	4.6	Initial lift	h5 (mm)	-	-	125	125
	4.9	Control handle height, travel position, minimum/maximum	h14 (mm)	1095/1217	1095/1217	1095/1217	1095/1217
	4.15	Fork height, lowered	h13 (mm)	86	86	86	86
	4.19	Overall length	l1 (mm)	2030/2420 [3]	2030/2420 [3]	2030/2420 [3]	2030/2420 [3]
	4.20	Length to fork face	l2 (mm)	880/1270 [3]	880/1270 [3]	880/1270 [3]	880/1270 [3]
	4.21	Overall width	b1/b2 (mm)	800	800	800	800
	4.22	Fork dimensions	s/e/l (mm)	71/180/1150	71/180/1150	71/180/1150	71/180/1150
	4.24	Fork carriage width	b3 (mm)	780	780	780	780
	4.25	Fork spread	b5 (mm)	560	560	560	560
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30	30	145/20	145/20
	4.33	Aisle width, pallet 1000 x 1200 mm across forks	Ast (mm)	2500/2870 [3]	2500/2870 [3]	2500/2870 [3]	2500/2870 [3]
	4.34	Aisle width, pallet 800 x 1200 mm along forks	Ast (mm)	2455/2830 [3]	2455/2830 [3]	2455/2830 [3]	2455/2830 [3]
	4.35	Turning radius	Wa (mm)	1640/2010 [3]	1640/2010 [3]	1560/1930 [3]	1560/1930 [3]
Performance	5.1	Travel speed, with/without load	km/h	7.0/9.0	6.5/9.0	7.0/9.0	6.5/9.0
	5.2	Lifting speed, with/without load	m/s	0.16/0.25 (0.40) [4]	0.14/0.22 (0.37) [4]	0.16/0.25 (0.40) [4]	0.14/0.22 (0.37) [4]
	5.3	Lowering speed, with/without load	m/s	0.45/0.45	0.40/0.35	0.45/0.45	0.40/0.35
	5.7	Climbing ability, with/without load	m/s	[4]	[4]	[4]	[4]
	5.8	Maximum climbing ability, with/without load	%	9.0/10	8.0/10	9.0/10	8.0/10
	5.10	Service brake		Electro-mechanical	Electro-mechanical	Electro-mechanical	Electro-mechanical
Drive	6.1	Drive motor, 60 minute rating	kW	1.5	1.5	1.5	1.5
	6.2	Lift motor, 15 % rating	kW	3.0	3.0	3.0/0.8	3.0/0.8
	6.3	Battery to DIN/IEC		43535B/254-2	43535B/254-2	43535B/254-2	43535B/254-2
	6.4	Battery voltage	V/Ah	24/220	24/220	24/220	24/220
	6.5	Battery weight (±5%)	kg	200	200	200	200
	6.6	Power consumption to VDI cycle	Ah	76,9	76,9	76,9	76,9
Other	8.1	Type of drive control		Electronic (LDC)	Electronic (LDC)	Electronic (LDC)	Electronic (LDC)
	8.4	Sound level at operator's ear	dB (A)	<65	<65	<65	<65

Figures for standard truck may vary with alternative specifications.
1) Capacity for initial lift in brackets.
2) Initial lift raised/lowered.
3) Figures in brackets for optional ultra-fast lifting.
4) Refer to manufacturer for figures.
5) Operator's platform folded up/folded down.



Aisle width Ast = Wa + r + a
(Safety clearance a = 200 mm)



Mast (in mm)	L14	1924S	2424S	2924S	3324S	3824S	4224S	4724S	1924D	2424D	2924D	3324D	3824D	4224D	4266T	4716T
Lift	h3	1924	2424	2924	3324	3824	4224	4724	1924	2424	2924	3324	3824	4224	4266	4716
Lift and fork height	h3+h13	2010	2510	3010	3410	3910	4310	4810	2010	2510	3010	3410	3910	4310	4352	4802
Height lowered	h1	1490	1740	1990	2190	2440	2540	2890	1415	1665	1915	2115	2365	2565	1915	2065
Height extended	h4	2460	2960	3460	3860	4360	4760	5260	2460	2960	3460	3860	4360	4760	4802	5252
Free lift	h2	150	150	150	150	150	150	150	862	1212	1462	1662	1912	2112	1379	1529

Mast (in mm)	L16	1844S	2344S	2844S	3244S	3744S	4144S	4644S	1844D	2344D	2844D	3344D	3744D	4144D	4266T	4716T
Lift	h3	1844	2344	2844	3244	3744	4144	4644	1844	2344	2844	3244	3744	4144	4266	4716
Lift and fork height	h3+h13	1930	2430	2930	3330	3830	4230	4730	1930	2430	2930	3330	3830	4230	4352	4802
Height lowered	h1	1490	1740	1990	2190	2440	2640	2890	1415	1665	1915	2115	2365	2565	1915	2065
Height extended	h4	2380	2880	3380	3780	4280	4680	5180	2380	2880	3380	3780	4280	4680	4760	5252
Free lift	h2	150	150	150	150	150	150	150	879	1129	1379	1579	1829	2029	1379	1529

Other masts on request