Pedestrian Double Stacker Capacity 1200 - 1400 kg L12L, L14L, L12L HP

SERIES 133

Linde Material Handling

Safety

Safety is assured by automatic speed reduction when cornering, automatic braking on release of the traction control and excellent visibility through the wide mast. Electromagnetic braking is actuated by the emergency stop button. The rounded, smooth shape of the chassis and tiller head, reduces all risk of pinching or snagging.

Performance

A key strength of the range is productivity. Linde OptiLift® control provides genuinely proportional lifting/lowering and the powerful 3kW AC motor gives a top speed of 6 km/h laden or unladen. The compact chassis ensures that this high performance is combined with exceptional manoeuvrability.

Comfort

Electric power steering with adjustable steering torque provides effortless control and efficiency. Positive steering feedback results in safe, assured operation. Travel speed is automatically reduced as the steering angle increases for optimum stability. Generous storage compartments for work equipment and tools eases the operator's tasks.

Reliability

Linde has designed these two pedestrian stackers to meet the needs of its customers by providing the optimum solution for individual applications. These rugged trucks incorporate tried and tested components to deliver consistent reliability and faster, safer load handling over an extended working life in the toughest industrial environments.

Service

The digital multifunction instrument display ensures the operator is always well informed. CAN bus connectivity enables all truck data to be quickly interrogated by the service technician via his laptop. Easy accessibility of all components and maintenance-free AC technology also play an important role in maximising truck uptime.

Technical data (according to VDI 2198)

Characteristics	1.1	Manufacturer				**LINDE**		
	1.2	Manufacturer's type designation			L12L	L14L	L12L HP	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas				Battery		
	1.4	Operator type: hand, pedestrian, stand-on, seat-on, order-picker				**Pedestrian**		
	1.5	Load capacity (on load arms)		Q (kg)	1200 (2000)	1400 (2000)	1200 (2000)	
	1.6	Load centre distance		c (mm)		600		
	1.8	Load distance, centre of drive axle to fork	(± 5 mm)	X (mm)		948		
	1.9	Wheelbase, with initial lift lowered/lifted	(± 5 mm)	y (mm)		1625 [1]		
Weight	2.1	Service weight (with battery item 6.5)	(± 10 %)	kg		1340		1350
	2.2	Axle loading, laden front/rear (according to item 2.1)	(± 10 %)	kg		1310 / 2040		
	2.3	Axle loading, unladen front/rear (according to item 2.1)	(± 10 %)	kg	965 / 380	960 / 380	1055 / 300	
Wheels and tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane				Cushion / Polyurethane		
	3.2	Tyre size, drive side (drive wheel)		Ø x 1mm		Ø 254 x 102		
	3.3	Tyre size, load side (load wheels)		Ø x 1mm		2 x Ø 85 x 85		
	3.4	Auxiliary wheels sizes		Ø x 1mm		2 x Ø 140 x 50		Ø 125 x 60
	3.5	Wheels, number drive/load side (x = driven wheel)				1x + 1/2		1x + 2/2
	3.6	Track width, drive side	(± 5 mm)	mm		470		544
	3.7	Track width, load side	(± 5 mm)	mm		380		
Dimensions	4.2	Height, mast lowered		h1 (mm)		1490		1315
	4.3	Free lift		h2 (mm)		150		
	4.4	Lift		h3 (mm)		1924		1574
	4.5	Height, mast extended	(± 5 mm)	h4 (mm)		2460		2110
	4.6	Initial lift	(± 5 mm)	h5 (mm)		125		
	4.9	Tiller height, travel position, min./max.		h14 (mm)		1140 / 1350		
	4.15	Height, lowered		h13 (mm)		86		
	4.19	Overall length	(± 5 mm)	l1 (mm)		2135 [1]		
	4.20	Length to face to forks		l2 (mm)		985 [1]		
	4.21	Overall width	(± 5 mm)	b1 (mm)		790		
	4.22	Fork dimentions		s/e/l (mm)		55 x 180 x 1150		
	4.23	Load arm dimentions		s/e/l (mm		60 x 125 x 1119		
	4.24	Fork carrage width	(± 5 mm)	b3 (mm)		780		
	4.25	Distance between fork-arms	(± 5 mm)	b5 (mm)		560		
	4.26	Distance between fork-arms from inside	(± 5 mm)	b4 (mm)		230		
	4.32	Ground clearance, centre wheelbase	(mini)	m2 (mm)		20		
	4.33	Aisle width for pallets 1000 x 1200 crossways		Ast (mm)		2735 [1]		
	4.34	Aisle width for pallets 800 x 1200 lengthways		Ast (mm)		2605 [1]		
	4.35	Turning radius	(mini)	Wa (mm)		1960 [1]		
Performance	5.1	Travel speed, laden/unladen	(± 5 mm)	km/h		6/6		
		Travel speed reverse, laden/unladen	(± 5 mm)	km/h		6/6		
	5.2	Lift speed, laden/unladen	(± 10 %)	m/s	0.11 / 0.22	0.12 / 0.23	0.11 / 0.22	
		Lift speed (initial lift), laden/unladen	(± 10 %)	m/s		0.06 / 0. 06		
	5.3	Lowering speed, laden/unladen	(± 10 %)	m/s	0.3 / 0.3	0.35 / 0.385	0.3 / 0.3	
		Lowering speed (initial lift), laden/unladen	(± 10 %)	m/s		0.07 / 0.07		
	5.8	Maximum gradeability, laden/unladen		%	15/18	14/18	16/18	
	5.9	Acceleration, laden/unladen		s	1.53/1.40	1.59/1.40	1.53/1.40	
	5.10	Service brake				Electromagnetic		
Drive	6.1	Drive motor rating S2 60 min		kW		3		
	6.2	Lift motor rating at S3 15%		kW	1.7	2	1.7	
	6.3	Battery according to DIN 43531/35/36 A,B,C, no				No (special battery box) (3PzS)		
	6.4	Battery voltage/nominal capacity K5		V/Ah		24/375		
	6.5	Battery weight	(± 10 %)	kg		295		
	6.6	Energy consumption acc. to VDI cycle		Ah		68		
Other	8.1	Type of drive control				LAC		
	8.4	Sound level at the driver's ear according to DIN 12053		dB (A)		< 70		

Standard truck figures varying according to equipment

1) Chassis with a 3 PzS side battery change (+100mm for a 3 PzS vertical or 4 PzS lateral; +150mm for a 4 PzS vertical battery change)

Equipment

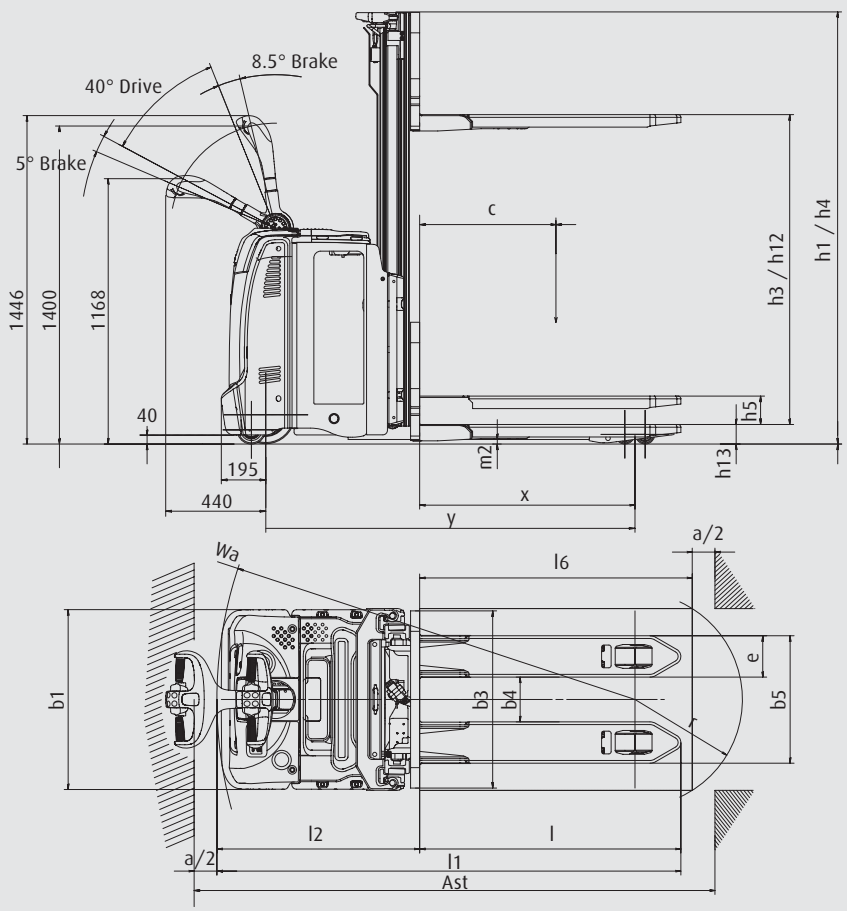
Standard equipment

- Linde OptiLift®: proportional control on the tiller head
- Power assisted steering with variable steering resistance
- Positive steering (drive wheel) feedback
- Automatic and adjustable speed reduction when cornering
- 3kW AC motor (maintenance free)
- Electromagnetic emergency brake
- Key switch or Log in PIN code
- Dedicated work station with storage compartments
- CAN bus technology
- Multifunction backlit instrument display: Safety alarm, maintenance check indicator, battery charge level, hour meter
- Cushion rubber drive wheel
- Polyurethane single load wheels
- Width over forks of 560 or 680 mm
- Vertical battery change 3 or 4 PzS (L12L / L14L)
- Side battery change 3 or 4 PzS (L12L HP)
- Mast protection: polycarbonate or mesh screen
- Horn
- Protection to –10°C

Optional equipment

- Load backrest (h=1,000mm)
- Low traction speed when initial lift lowered option
- Soft landing of forks
- Support for data terminal or barcode reader (Pack n°2 on L12L / L14L)
- Drive wheels: polyurethane, cushion rubber non-marking or wet grip
- Load wheels: tandem polyurethane or tandem polyurethane greaseable
- Side battery change 3 or 4 PzS (L12L / L14L)
- Mobile and fixed battery stands for side battery change
- Cold store protection to –35°C

Other options available on request



Mast type (in kg)	1462 E	1612 E	1924 S/D	2424 S/D	2924 S/D	h3+h13 = 3150 mm	3324 S/D	3516 T	h3+h13 = 3700 mm	3824 S/D
Residual capacity L12L (CdG 600)	1200	1200	1200	1200	1200		1200	1200	< 1200	1150
Residual capacity L14L (CdG 600)	1400	1400	1400	1400	1400	<1400	1300		1250	1150

Features

Different drive systems

L12L HP:

Five wheel configuration

→ High performance (HP) version
→ Superb mix of traction and stability
→ Electronically controlled hydraulically suspended active castor wheels
→ Side battery change
→ Mast heights up to 1,574 mm lift (S/D/T)

L12L, L14L:

Four wheel configuration

→ Excellent stability
→ Vertical battery change as standard, optional side battery change
→ Mast heights up to 3,824mm lift (S/D/T)

OptiLift® control

→ Intuitive control of the tiller and all lifting functions
→ The proportional OptiLift control provides quiet, smooth and precise operation
→ Compact, high performance lift unit conserves energy to maximise shift life

Workstation

→ Digital, multifunction, backlit instrument display informs the operator of key truck information
→ Truck access by key switch or by PIN code (no-cost option)
→ Conveniently located and generous storage compartments for shrink-wrap, work gloves, pens/markers, etc.

CAN bus connectivity

→ Intelligent electronic management of all components for rapid, easy diagnosis
→ All truck parameters can be adjusted by the service technician to match performance to individual applications

AC motor and energy

→ Powerful, high torque drive motor, 3kW at 100% performance
→ Moisture and dust-proof, maintenance-free motor
→ Hill start ensures no rollback on gradients.
→ Top speed - 6km/h with or without load
→ Wide range of batteries from 375 Ah (3PzS) to 500 Ah (4PzS)
→ Battery locking system for side change secures battery in compartment and simplifies battery changing

Power steering

→ Effortless, electric power steering
→ Positive steering feedback for assured manoeuvring
→ Automatic and adjustable speed reduction when cornering
→ Steering effort varies according to steering angle

Brake

Automatic braking

→ On releasing the traction butterfly, with no energy consumption
→ By selecting opposite direction of travel

Emergency brake

→ Electromagnetic

On pressing the emergency button

Subject to modification in the interests of engineering progress.
Illustrations and technical details non-binding for actual construction. All measurements subject to customary tolerances.

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