



Stand-on Stacker &
Double Stacker Range
Capacity 1200 – 1400 kg
L12, L14 – AP/SP
L12L, L14L – AP/SP
L12L HP – AP/SP

SERIES 133

Safety

Both the AP and SP platform versions are perfectly designed to protect the operator during the working shift. Automatic speed reduction when cornering, automatic braking on releasing the traction control and excellent visibility through the wide mast, all provide assured safety. Electro-hydraulic braking is actuated by the dead man platform or by the emergency stop button and is proportional to the load carried.

Performance

A key strength of the range is productivity. Linde OptiLift® control for a genuine proportional lifting/lowering, load capacities up to 1,400 kg and a powerful 3 kW AC motor with a top speed of 10 km/h laden or unladen, all add up to high performance for a wide range of customer applications.

Comfort

Electric power steering with adjustable steering torque provides effortless manoeuvrability and efficiency. Positive steering feedback results in safe, assured control. Travel speed and steering effort are automatically and progressively adjusted according to the steering angle. Tasks are made easier thanks to generous storage compartments for working tools. The comfortable driving posture of the SP platform ensures a pleasurable working environment.

Reliability

In order to meet the needs of its customers, Linde has developed three different stacker versions, which are designed to provide the optimum solution for individual applications. These ruggedly constructed trucks incorporating tried and tested technology (lifting function etc.) and components, deliver consistent reliability in a unique combination that has already proven its worth with faster, safer load handling, as well as 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 transmitted to a laptop by the service technician. Easy accessibility of all components and maintenance-free AC technology also play an important role in maximising truck uptime.

Linde Material Handling

Linde

Equipment

Standard equipment

AP & SP platform	Multifunction backlit instrument display: Safety alarm,
Linde OptiLift®: proportional control on the tiller	maintenance check indicator, battery charge level, hour meter
Power assisted steering with variable steering resistance	Cushion drive wheel
Positive steering (drive wheel) feedback	Polyurethane single load wheels
Automatic speed reduction when cornering	Mast protection: polycarbonate or mesh wired (no extra)
3 kW AC motor (maintenance free)	Safe operator compartment with padded rests and cushioned full-suspension platform (SP)
Electrohydraulic emergency brake acting proportionally to the load weight	Single handed Linde e-Driver® control (SP)
Key switch or Log in PIN code (no extra)	Self-centring steering (e-Driver®) (SP)
Dedicated work station (with storage compartments)	Folding stand-on platform with side guards (AP)
CAN bus technology	Protection -10°C

Optional equipment

Overhead guard ((mandatory if lift height > 1,800 mm)
Load backrest (h = 1,000 mm)
Low speed option when initial lift lowered (Double stacker)
Soft landing of forks
Support for data terminal or barcode reader (Pack n°2)
Drive wheels: polyurethane, cushion non-marking or wet grip
Load wheels: tandem polyurethane, tandem polyurethane greasable
Cold store protection -35°C
Mobile and fixed battery stands (for side battery change)

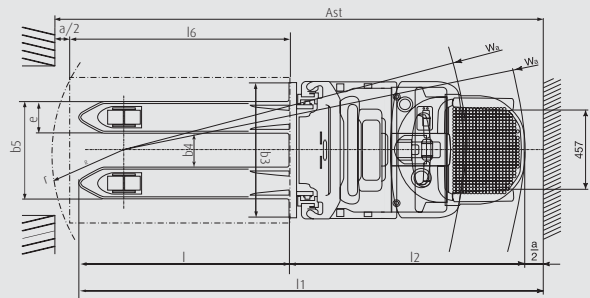
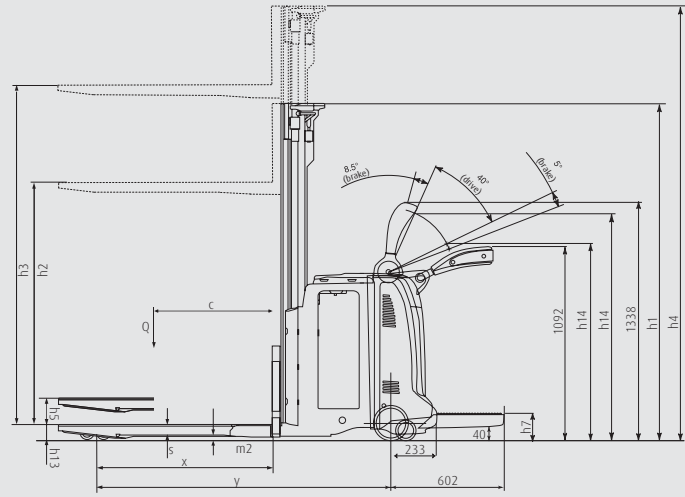
Other options available on request

Technical data

Distinguishing mark		Model group		Stacker		
	1.1	Manufacturer		LINDE		LINDE
	1.2	Manufacturer's type designation		L12		L14
				SP	AP	SP
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Battery	Battery	Battery
	1.4	Operator type: hand, pedestrian, stand-on, seat-on, order-picker		Stand-on	Pedestrian/stand-on	Stand-on
	1.5	Load capacity (on load arms)	Q (kg)	1200	1200	1400
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	760	760	760
Weight	1.9	Wheelbase, with initial lift lowered/lifted	y (mm)	1401 ²⁾	1401 ²⁾	1401 ²⁾
	2.1	Service weight (with battery item 6.5)	kg	1480	1360	1480
	2.2	Axle loading, laden front/rear	kg	1185 / 1485	1065 / 1485	1185 / 1685
Tyres, chassis	2.3	Axle loading, unladen front/rear	kg	1090 / 390	970 / 390	1090 / 390
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.
	3.2	Tyre size, drive side (drive wheel)	Ø x l (mm)	Ø 254 x 102	Ø 254 x 102	Ø 254 x 102
	3.3	Tyre size, load side	Ø x l (mm)	2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60
	3.4	Auxiliary wheels (dimensions)	Ø x l (mm)	2x Ø 140 x 50	2x Ø 140 x 50	2x Ø 140 x 50
	3.5	Wheels, number drive side/load side (x = driven wheels)		1x + 1/2	1x + 1/2	1x + 1/2
	3.6	Tread, drive side	mm	470	470	470
Dimensions	3.7	Tread, load side	mm	380	380	380
	4.2	Height, mast lowered	h1 (mm)	1490	1490	1490
	4.3	Free lift	h2 (mm)	150	150	150
	4.4	Lift	h3 (mm)	1924	1924	1924
	4.5	Height, mast extended	h4 (mm)	2460	2460	2460
	4.6	Initial lift	h5 (mm)	–	–	–
	4.8	Seat height/stand height min./max.	h7 (mm)	160	160	160
	4.9	Height of tiller in drive position min./max.	h14 (mm)	1160	1103 / 1287	1160
	4.15	Height, lowered	h13 (mm)	90	90	90
	4.19	Overall length (± 5 mm)	l1 (mm)	2489 ²⁾	2430 / 2061 ¹⁾²⁾	2489 ²⁾
	4.20	Length to face to forks (± 5 mm)	l2 (mm)	1339 ²⁾	1280 / 911 ¹⁾²⁾	1339 ²⁾
	4.21	Overall width (± 5 mm)	b1 (mm)	790	790	790
	4.22	Fork dimentions	s/e/l (mm)	55 x 180 x 1150	55 x 180 x 1150	55 x 180 x 1150
	4.23	Load arm dimentions	s/e/l (mm)	60 x 125 x 1119	60 x 125 x 1119	60 x 125 x 1119
	4.24	Fork-carrage width (± 5 mm)	b3 (mm)	780	780	780
	4.25	Distance between fork-arms (± 5 mm)	b5 (mm)	560	560	560
	4.26	Distance between fork-arms from inside (± 5 mm)	b4 (mm)	230	230	230
Performance data	4.32	Ground clearance, centre wheelbase mini	m2 (mm)	20	20	20
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2929 ²⁾	2870 / 2473 ¹⁾²⁾	2929 ²⁾
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2887 ²⁾	2828 / 2471 ¹⁾²⁾	2887 ²⁾
	4.35	Turning radius (mini)	wa (mm)	2099	2040 / 1671 ¹⁾	2099
	5.1	Travel speed, laden/unladen (±5 %)	Km/h	10 / 10	10 / 10 (6/6) ¹⁾	10 / 10
	5.2	Lift speed, laden/unladen (±10 mm)	m/s	0.11 / 0.22	0.11 / 0.22	0.12 / 0.23
		Lift speed (initial lift), laden/unladen (±10 mm)	m/s	–	–	–
	5.3	Lowering speed, laden/unladen (±10 mm)	m/s	0.3 / 0.3	0.3 / 0.3	0.35 / 0.385
Electric-engine		Lowering speed (initial lift), laden/unladen (±10 mm)	m/s	–	–	–
	5.8	Max. gradeability, laden/unladen	%	15 / 18	15 / 18	14 / 18
	5.9	Acceleration time, laden/unladen	s	1.53 / 1.40	1.53 / 1.40	1.59 / 1.40
	5.10	Service brake		Electrohydraulic	Electrohydraulic	Electrohydraulic
	6.1	Drive motor rating S2 60 min	kW	3	3	3
	6.2	Lift motor rating at S3 15 %	kW	1.7	1.7	2
Add. data	6.3	Battery acc. To DIN 43531/35/36 A,B,C, no		DIN 43535 B	DIN 43535 B	DIN 43535 B
	6.4	Battery voltage, nominal capacity K ₅	V/Ah	24 / 240	24 / 240	24 / 240
	6.5	Battery weight (±10 %)	kg	295	295	295
	6.6	Energy consumption acc. To VDI cycle	Ah	68	68	68
Add. data	8.1	Type of drive control		LAC	LAC	LAC
	8.4	Sound level at the driver's ear according to DIN 12053	dB(A)	<70	<70	<70
		Level of vibrations transmitted to driver (EN13059)	m/s ²	0.8	0.8	0.8

Standard truck figures varying according to equipements
1) Platform folded down
2) Chassis with a 3PzS side battery change (+100 mm for a 3 PzS vertical or 4 PzS lateral; +150 mm for a 4 PzS vertical battery change)

	Double Stacker					
LINDE	LINDE		LINDE		LINDE	
L14	L12L		L14L		L12L HP	
AP	SP	AP	SP	AP	SP	AP
Battery	Battery	Battery	Battery	Battery	Battery	Battery
Pedestrian/stand-on	Stand-on	Pedestrian/stand-on	Stand-on	Pedestrian/stand-on	Stand-on	Pedestrian/stand-on
1400	1200 (2000)	1200 (2000)	1400 (2000)	1400 (2000)	1200 (2000)	1200 (2000)
600	600	600	600	600	600	600
760	948 / 833	948 / 833	948 / 833	948 / 833	948 / 833	948 / 833
1401 ²⁾	1625 / 1510 ²⁾	1625 / 1510 ²⁾	1625 / 1510 ²⁾	1625 / 1510 ²⁾	1625 / 1510 ²⁾	1625 / 1510 ²⁾
1360	1700	1583	1700	1583	1310	1190
1065 / 1685	1540 / 1363	1420 / 1363	1580 / 152	1460 / 1523	1270 / 1236	1150 / 1236
970 / 390	1298 / 405	1178 / 405	1298 / 405	1178 / 405	1087 / 293	967 / 293
Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.	Cushion/Polyureth.
Ø 254 x 102	Ø 254 x 102	Ø 254 x 102	Ø 254 x 102	Ø 254 x 102	Ø 254 x 102	Ø 254 x 102
2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60	2x Ø 85 x 60
2x Ø 140 x 50	2x Ø 140 x 50	2x Ø 140 x 50	2x Ø 140 x 50	2x Ø 140 x 50	Ø 125 x 60	Ø 125 x 60
1x + 1/2	1x + 1/2	1x + 1/2	1x + 1/2	1x + 1/2	1x + 2/2	1x + 2/2
470	470	470	470	470	544	544
380	380	380	380	380	380	380
1490	1490	1490	1490	1490	1315	1315
150	150	150	150	150	150	150
1924	1924	1924	1924	1924	1574	1574
2460	2460	2460	2460	2460	2110	2110
–	125	125	125	125	125	125
160	160	160	160	160	160	160
1103 / 1287	1160	1103 / 1287	1160	1103 / 1287	1160	1103 / 1287
90	90	90	90	90	90	90
2430 / 2061 ¹⁾²⁾	2489 ²⁾	2430 / 2061 ¹⁾²⁾	2489 ²⁾	2430 / 2061 ¹⁾²⁾	2489 ²⁾	2430 / 2061 ¹⁾²⁾
1280 / 911 ¹⁾²⁾	1339 ²⁾	1280 / 911 ¹⁾²⁾	1339 ²⁾	1280 / 911 ¹⁾²⁾	1339 ²⁾	1280 / 911 ¹⁾²⁾
790	790	790	790	790	790	790
55x180x1150	55x180x1150	55x180x1150	55x180x1150	55x180x1150	55x180x1150	55x180x1150
60x125x1119	60x125x1119	60x125x1119	60x125x1119	60x125x1119	60x125x1119	60x125x1119
780	780	780	780	780	780	780
560	560	560	560	560	560	560
230	230	230	230	230	230	230
20	20	20	20	20	20	20
2870 / 2473 ¹⁾²⁾	2929 ²⁾	2870 / 2473 ¹⁾²⁾	2929 ²⁾	2870 / 2473 ¹⁾²⁾	3089 ²⁾	3030 / 2473 ¹⁾²⁾
2828 / 2471 ¹⁾²⁾	2887 ²⁾	2828 / 2471 ¹⁾²⁾	2887 ²⁾	2828 / 2471 ¹⁾²⁾	2960 ²⁾	2901 / 2471 ¹⁾²⁾
2040 / 1671 ¹⁾	2287	2228 / 1671 ¹⁾	2287	2228 / 1671 ¹⁾	2287	2228 / 1671 ¹⁾
10 / 10 (6/6) ¹⁾	10 / 10	10 / 10 (6/6) ¹⁾	10 / 10	10 / 10 (6/6) ¹⁾	10 / 10	10 / 10 (6/6) ¹⁾
0.12 / 0.23	0.11 / 0.22	0.11 / 0.22	0.12 / 0.23	0.12 / 0.237	0.11 / 0.22	0.11 / 0.22
–	0.06 / 0.06	0.06 / 0.06	0.06 / 0.06	0.06 / 0.06	0.06 / 0.08	0.06 / 0.08
0.35 / 0.385	0.3 / 0.3	0.3 / 0.3	0.35 / 0.385	0.35 / 0.385	0.3 / 0.3	0.3 / 0.3
–	0.07 / 0.07	0.07 / 0.07	0.07 / 0.07	0.07 / 0.07	0.07 / 0.07	0.07 / 0.07
14 / 18	15 / 18	15 / 18	14 / 18	14 / 18	16 / 18	16 / 18
1.59 / 1.40	1.53 / 1.40	1.53 / 1.40	1.59 / 1.40	1.59 / 1.40	1.53 / 1.40	1.53 / 1.40
Electrohydraulic	Electrohydraulic	Electrohydraulic	Electrohydraulic	Electrohydraulic	Electrohydraulic	Electrohydraulic
3	3	3	3	3	3	3
2	1.7	1.7	2	2	1.7	1.7
DIN 43535 B	DIN 43535 B	DIN 43535 B	DIN 43535 B	DIN 43535 B	DIN 43535 B	DIN 43535 B
24 / 240	24 / 240	24 / 240	24 / 240	24 / 240	24 / 240	24 / 240
295	295	295	295	295	243	243
68	68	68	68	68	68	68
LAC	LAC	LAC	LAC	LAC	LAC	LAC
<70	<70	<70	<70	<70	<70	<70
0.8	0.8	0.8	0.8	0.8	0.8	0.8

 $r = 595$ $r = 666$

$$A_{st} = W a + \sqrt{(16-x)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

$$AST = Wa + r + a$$

Safety clearance $a = 200 \text{ mm}$

Mast type (in kg)	1462 E	1612 E	1924 S/D	2424 S/D	2924 S/D	h3+h13=3150mm	3324 S/D	3516 T	h3+h13=3700mm	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

Platform versions

SP concept

- Operator is protected by wraparound steel profiles
- Perfect driving position at 45° angle with panoramic visibility, a secure and stable position
- Linde e-Driver®: Self-centring steering, ergonomic design matched to the 45° operator stance
- Optimum protection for both hands

AP versions

- Foldable cushioned rider platform
- Integral side guards, platform folds up and down effortlessly

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)
- Generous storage compartments are conveniently located for shrink-wrap, work gloves, writing utensils, etc.



Different drive systems

L 12 LHP:

Five wheel configuration

- High performance (HP) version
- Superb traction and stability
- Electronically controlled hydraulic-suspension active castor wheels
- Side battery change
- Mast height range up to 1,574 mm lift (S/D/T)

L 12 L, L 14 L, L 12, L 14:

Four wheel configuration

- Excellent stability
- Vertical battery change as standard, optional side battery change
- Mast height range up to 3,824 mm lift (E/S/D/T)

OptiLift® control

- Intuitive controllability of the tiller (e-Driver®), as well as all lifting functions
- The proportional OptiLift® control brings quiet smoothness and precision
- Compact, energy efficient, high performance lift unit with no waste of energy

CAN bus connectivity

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



AC motor & Energy

- Powerful, high torque drive motor, 3kW at 100% performance
- Moisture and dust-proof, maintenance-free motor
- No rollback on gradient starts
- Top speed of 10km/h with or without a load; 6km/h in pedestrian operation (AP)
- Wide range of batteries from 375 Ah (3 PzS) to 500 Ah (4 PzS)
- Battery locking system for side change option secures battery in compartment and simplifies battery changing

Power steering

- Effortless, electric power steering
- Positive steering feedback for assured manoeuvring.
- Automatic speed reduction when cornering
- Steering effort varies according to the turning angle

Brakes

Automatic braking

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

Emergency brake

- Electro-hydraulic
- On pressing the emergency button or by stepping off the dead-man platform
- Hydraulic-assisted system, proportional to the load carried

