

Standard and Optional Equipment

Standard Equipment

- Soft landing by reducing fork carriage speed when lowering to floor (in conjunction with LLC)
- Rubber drive wheel
- Tandem polyurethane load wheels
- Polyurethane swivel caster wheel
- LDC drive control
- Fork length 1150mm
- Fork spread 560mm
- Operating environment to -10°C
- Battery cable and plug
- Operator's handbook, maintenance manual and spare parts catalogue
- Load leg initial lift and level compensation (L14i, L16i)

Optional Equipment

- Various masts: standard, free-lift duplex, triplex
- Alternative fork sizes
- Load backrest
- Lift speed booster for loads up to 300 kg (in conjunction with LLC)
- ISO fork carriages with hook-on forks
- Greasable initial lift system
- Wire mesh mast shield
- Polyurethane or grooved solid rubber drive wheel
- Cold store version (operating environment to -35°C)
- Side roll-out battery change
- Single-battery change stand
- Two-battery change stand

Other Options Available on Request



Electric Pallet Stackers L14, L16, L14i, L16i 1400, 1600kg

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Linde Material Handling

Linde

Safety

Design of the Linde Pallet Stacker is not only good to look at, but also good for protection of the operator. The low skirt ensures that the wheels remain safely within the truck contours. Together with the rounded, smooth shape of the chassis and tiller head, this reduces all risk of injury or damage.

Performance

3 kW lift motor combines with 2.3 KW AC traction motor giving a top speed of 6 km/h loaded as unloaded, ensuring a superior performance and optimum productivity. The advanced chassis design and mast construction results in market leading in residual capacity. The Linde OptiLift® control provides true proportional lifting and lowering. The 800 mm width of the chassis allows the stacker to work easily in narrow aisle.

Comfort

All controls can be operated with either hand without ever having to let go of the tiller. Versions equipped with initial lift (L14i and L16i) are particularly advantageous for loading freight trucks or trailers and running on uneven floors.

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.

Service

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 ensuring maximum operational uptime ratios.

Features

Main Features

- Precise proportional load lifting and lowering by Linde Load Control (LLC) directly on their head
- Operator's hands safely protected by ergonomic Linde tiller design
- Superior driving comfort with minimum effort due to electric steering
- Excellent stability and high residual capacities achieved by low center of gravity and four-point truck support
- Chassis same width as pallet avoids snagging on obstacles
- Linde Digital Control (LDC), advanced microprocessor control system with adjustable operating parameters
- Automatic electronic braking on releasing travel control switch (Linde Brake Control, LBC)
- Initial lift for load legs with level compensation (L14i, L16i)



Initial lift

Load leg initial lift providing 2000 kg capacity and 110 mm height enables pallets to be engaged on short or long side and loads to be transported smoothly over landing dock ledges or ground clearance to be raised when travelling over ramps. Level compensation fitted as standard keeps all four wheels in contact on uneven ground, heightening truck grip and stability.



Tiller arm

The new tiller arm affords excellent protection for the operator's hands. The particular shape of the tiller head repositions the operator in the centre of the truck for a better vision through the mast. The way it is balanced means that very little efforts is required to apply steering lock. The control buttons, which can be operated by either hand without lifting the hands from the tiller arms, are made in a completely new user-friendly material. The electric control lever offers easy operation, precise operation, and lead to more productivity.

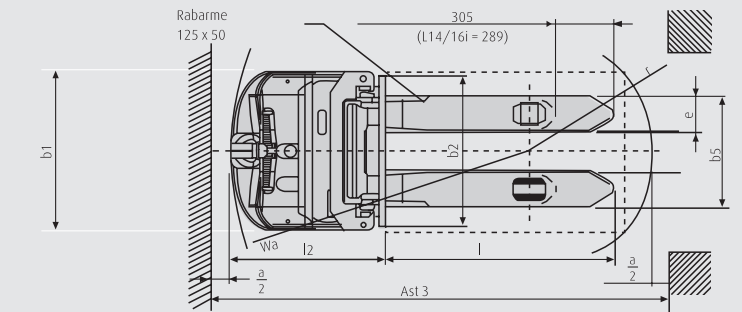
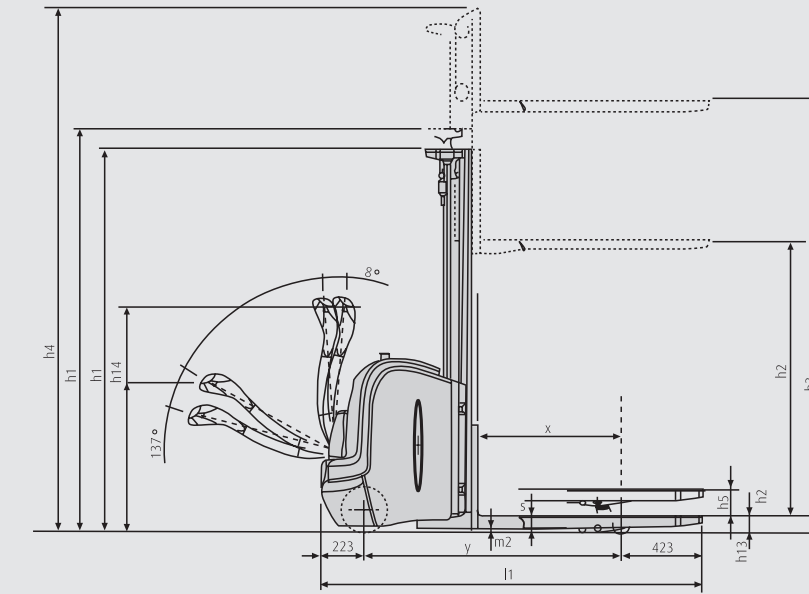
Linde Material Handling

Linde

Technical Data

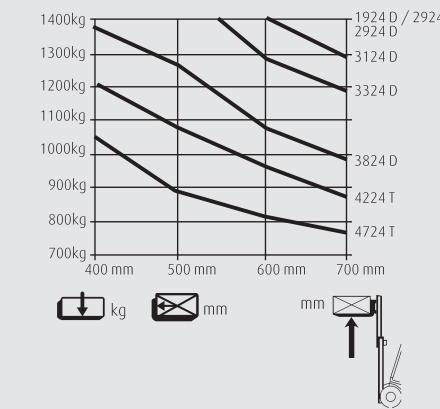
Characteristics	1.1	Manufacturer	Linde	Linde	Linde	Linde	
	1.2	Model designation	L14	L16	L14i	L16i	
	1.3	Power unit	Battery				
	1.4	Operation	Pedestrian				
	1.5	Load capacity	Q(kg)	1400	1600	1400(2000) ⁴⁾	1600(2000) ⁴⁾
	1.6	Load center	c(mm)	600	600	600	600
	1.8	Axle centre to fork face (fork raised/lowered)	x(mm)	727	727	648/727	648/727
	1.9	Wheelbase (fork raised/lowered)	y(mm)	1304	1304	1304/1225	1304(1225)
	Weights	2.1	Service weight (with battery item 6.5)	kg	1200 ¹⁾	1205 ¹⁾	1190 ¹⁾
2.2		Axle load with load, drive/load side	kg	1006/1594 ¹⁾	1026/1779 ¹⁾	1001/1589(943/2247) ¹⁾	1021/1774(943/2252) ¹⁾
2.3		Axle load without load drive/load side	kg	870/330 ¹⁾	870/335 ¹⁾	865/325 ¹⁾	865/330 ¹⁾
Wheels	3.1	Tyre, operator/load side: Rubber(R), polyurethane(PU)	R+P/P (solid rubber + polyurethane/polyurethane)				
	3.2	Tyre size, drive side	mm	230x90	230x90	230x90	230x90
	3.3	Tyre size, load side	mm	85x60	85x60	85x60	85x60
	3.4	Auxiliary wheel, size	mm	150x50	150x50	150x50	150x50
	3.5	Wheels number, drive/load side (x=driven)				1x+1/4	
	3.6	Track width, drive side	mm	530	530	530	530
	3.7	Track width, load side	mm	380	380	380	380
Dimensions	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 height	h3(mm)	2924	2844	2924	2844
	4.5	Height of mast, extended	h4(mm)	3460	3380	3460	3380
	4.6	Initial lift	h5(mm)	-	-	110	110
	4.9	Height of tiller arm in operation position	h14(mm)	750/1126	750/1126	750/1126	750/1126
	4.15	Fork height, lowered	h13(mm)	86	86	86	86
	4.19	Overall length	l1(mm)	1950 ¹⁾	1950 ¹⁾	1950 ¹⁾	1950 ¹⁾
	4.20	Length to fork face	l2(mm)	800 ¹⁾	800 ¹⁾	800 ¹⁾	800 ¹⁾
	4.21	Overall width	b1(mm)	800	800	800	800
	4.22	Fork dimensions	s/e/l(mm)	71x180x1150	71x180x1150	71x180x1150	71x180x1150
	4.25	Fork spread	b5(mm)	560/680	560/680	560/680	560/680
	4.32	Ground clearance, center of wheelbase min./max.	m2(mm)	30	30	145/20	145/20
	4.33	Aisle width, 1000x1200mm pallet crosswise	Ast(mm)	2474 ²⁾	2474 ²⁾	2474/2432 ^{5) 2) 6)}	2474/2432 ^{5) 2) 6)}
	4.34	Aisle width, 800x1200mm pallet lengthwise	Ast(mm)	2434 ²⁾	2434 ²⁾	2434/2418 ^{5) 2) 6)}	2434/2418 ^{5) 2) 6)}
4.35	Turning radius (fork raised)	Wa(mm)	1615	1615	1615(1537)	1615(1537)	
Performances	5.1	Travel speed, with/without load	km/h	6/6 ³⁾	6/6 ³⁾	6/6 ³⁾	6/6 ³⁾
	5.2	Lift speed, with/without load	m/s	0.16/0.25(0.40) ⁷⁾	0.14/0.22(0.37) ⁷⁾	0.16/0.25(0.40) ⁷⁾	0.14/0.22(0.37) ⁷⁾
	5.3	Lower speed, with/without load	m/s	0.45/0.45	0.4/0.35	0.45/0.45	0.4/0.35
	5.8	Maximum climbing ability, with/without load, 5 min.rating	%	11.0/24.0	10/24	11(8)/24	10.0(8.0)/24.0
	5.10	Service brake		Electromechanical magnetic brake			
Drive	6.1	Drive motor output (60 min.rating)	kW	2.3	2.3	2.3	2.3
	6.2	Lift motor output (10% rating)	kW	3.0	3.0	3.0	3.0
	6.3	Battery according to DIN 43 531/35/36A, B, C, no		DIN 43535 B		DIN 43535 B	
	6.4	Battery voltage/rated capacity(5h)	V/Ah	24/270	24/270	24/270	24/270
	6.5	Battery weight	kg	243	243	243	243
Others	8.1	Type of Drive control		Linde Digital control (LDC)			
	8.4	Sound level at driver's ear	dB(A)	<72	<72	<72	<72
Figures for standard version may vary when options equipment is fitted 1) Including battery weight stated in Line 6.4 /6.5 2) Calculated with the VDI 2198 3) (±5%) 4) Load distribution e.g. 1000kg on the fork arms. Total load max.2000kg 5) without/with Initial lift			6) Tiller in vertical position 7) Figures in parentheses for optional lift speed booster				

Load Capacity Diagrams:

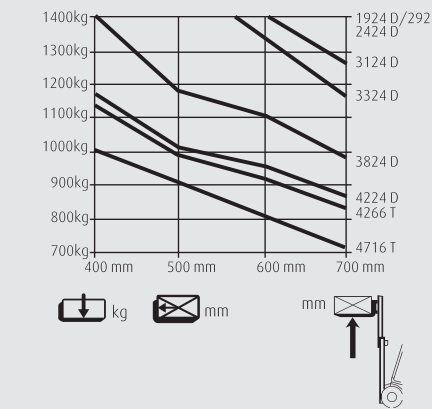


Turning radius $Ast = Wa + r + a$
(Safety clearance $a = 200\text{mm}$)

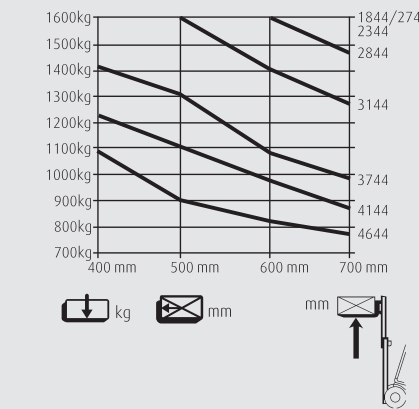
L14-560 S mast



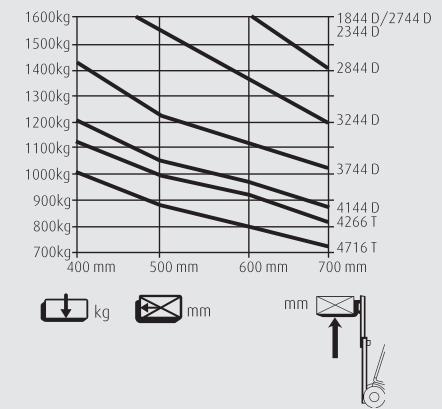
L14-560 D/T mast



L16-560 S mast



L16-560 D/T mast



Mast Datasheet (in: mm)

Masts (in mm)	L14	1924S	2424S	2924S	3324S	3824S	4224S	4724S	1924D	2424D	2924D	3324D	3824D	4224D	4266T	4716T	5316T
Lift	h ₃	1924	2424	2924	3324	3824	4224	4724	1924	2424	2924	3324	3824	4224	4266	4716	5316
Lift+fork height	h ₃ +h ₁₃	2010	2510	3010	3410	3910	4310	4810	2010	2510	3010	3410	3910	4310	4352	4802	5402
Height, lowered	h ₁	1490	1740	1990	2190	2440	2640	2890	1415	1665	1915	2115	2365	2565	1915	2065	2265
Height, extended	h ₄	2460	2960	3460	3860	4360	4760	5260	2460	2960	3460	3860	4360	4760	4802	5252	5852
Free lift	h ₂	150	150	150	150	150	150	150	862	1212	1462	1662	1912	2112	1379	1529	1729

Masts (in mm)	L16	1844S	2344S	2844S	3244S	3744S	4144S	4644S	1844D	2344D	2844D	3244D	3744D	4144D	4266T	4716T	5316T
Lift	h ₃	1844	2344	2844	3244	3744	4144	4644	1844	2344	2844	3244	3744	4144	4266	4716	5316
Lift+fork height	h ₃ +h ₁₃	1930	2430	2930	3330	3830	4230	4730	1930	2430	2930	3330	3830	4230	4352	4802	5402
Height, lowered	h ₁	1490	1740	1990	2190	2440	2640	2890	1415	1665	1915	2115	2365	2565	1915	2065	2265
Height, extended	h ₄	2380	2880	3380	3780	4280	4680	5180	2380	2880	3380	3780	4280	4680	4802	5252	5852
Free lift	h ₂	150	150	150	150	150	150	150	879	1129	1379	1579	1829	2029	1379	1529	1729

Other masts on request