



Linde Material Handling

*Linde*



## Platform Double Pallet Stacker

# D12-14 AP

Capacity 1.2 t-1.4 t | Series 1173

### Flexible performance engine

- Fold-out platform for a wide range of applications
- Up to 1400 kilograms on two pallets for maximum productivity
- Creep speed function makes difficult maneuvers in narrow aisles easier
- Linde OptiLift® mast control ensures precise load handling
- Excellent visibility through mast enables loading and unloading with millimeter accuracy
- With the powerful 2.3 kW AC engine, the trucks reach speeds of up to 10 km/h for increased handling capacity

# TECHNICAL DATA (According to VDI 2198)

	Characteristics		Weights		Wheels/Tyres		Dimensions		Performance		Drive		Others	
	Item No.	Description	Unit	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
1.1	Manufacturer			Linde		Linde								
1.2	Model			D12 AP		D14 AP								
1.2.a	Series			1173		1173								
1.3.	Power Unit			Battery		Battery								
1.4	Operation			Pedestrian/Stand-on		Pedestrian/Stand-on								
1.5	Load capacity/Load <sup>1)</sup>	Q (kg)		1200		1400								
1.6	Load centre distance	c (mm)		600		600								
1.8	Axle centre to fork face <sup>2) 3)</sup>	x (mm)		842		842								
1.9	Wheelbase <sup>2) 4)</sup>	y (mm)		1597		1597								
2.1	Service weight (± 10 %)	(kg)		1150		1150								
2.2	Axle load with load, front/rear (± 10 %)	(kg)		967/1383		997/1553								
2.3	Axle load without load, front/rear (± 10 %) <sup>2)</sup>	(kg)		785/365		785/365								
3.1	Tyres rubber, SE, pneumatic, polyurethane			Rubber + polyurethan / polyurethan		Rubber + polyurethan / polyurethan								
3.2	Tyre size, front			Ø 230 × 90		Ø 230 × 90								
3.3	Tyre size, rear <sup>5)</sup>			Ø 85 × 85 (Ø 85 × 60)		Ø 85 × 85 (Ø 85 × 60)								
3.4	Auxiliary wheels (dimensions)			2x Ø 140 × 50		2x Ø 140 × 50								
3.5	Wheels, number front/rear (x = driven) <sup>5)</sup>			1x + 2/2 (1x + 2/4)		1x + 2/2 (1x + 2/4)								
3.6	Track width, front (± 5 mm)	b10 (mm)		534		534								
3.7	Track width, rear (± 5 mm)	b11 (mm)		380		380								
4.2	Height of mast, lowered <sup>6)</sup>	h1 (mm)		1915		1915								
4.3	Free lift <sup>6)</sup>	h2 (mm)		1395		1395								
4.4	Lift <sup>6)</sup>	h3 (mm)		4266		4266								
4.5	Height of mast, extended <sup>6)</sup>	h4 (mm)		4786		4786								
4.6	Initial lift	h5 (mm)		125		125								
4.9	Height of tiller arm in operating position, min/max	h14 (mm)		1162.5/1305.6		1162.5/1305.6								
4.15	Height, lowered	h13 (mm)		86		86								
4.19	Overall length <sup>4) 7)</sup>	l1 (mm)		2225/2558		2225/2558								
4.20	Length to fork face <sup>4)</sup>	l2 (mm)		1075/1408		1075/1408								
4.21	Overall width	b1/b2 (mm)		800		800								
4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)		71 × 180 × 1150		71 × 180 × 1150								
4.24	Width of fork carriage	b3 (mm)		780		780								
4.25	Fork spread	b5 (mm)		560/680		560/680								
4.26	Straddle legs spread (from inside), min/max	b4 (mm)		200/320		200/320								
4.34.1	Ground clearance, centre of wheelbase <sup>2)</sup>	m2 (mm)		30		30								
4.34.2	Aisle width with pallet 800 × 1200 along forks <sup>4)</sup>	Ast (mm)		2693/3021 <sup>4) 7)</sup>		2693/3021 <sup>4) 7)</sup>								
4.35	Turning radius <sup>4)</sup>	Wa (mm)		2011/2339 <sup>4) 7)</sup>		2011/2339 <sup>4) 7)</sup>								
5.1	Travel speed, with/without load (± 5 %) <sup>7)</sup>	(km/h)		4/4; 6/6; 8/10		4/4; 6/6; 8/10								
5.2	Lifting speed, with/without load (± 10 %) <sup>8) 9)</sup>	(m/s)		0.16/0.30		0.15/0.30								
5.3	Lowering speed, with/without load (± 10 %) <sup>9)</sup>	(m/s)		0.40/0.35		0.45/0.35								
5.8	Maximum climbing ability, with/without load	(%)		10/24		10/24								
5.10	Service brake			Electro		Electro								
6.1	Drive motor rating S2 60 min	(kW)		2.3		2.3								
6.2	Lift motor rating at S3 15 %	(kW)		3.2		3.2								
6.3	Battery according to DIN 43531/35/36 A, B, C, no			3 PzS-SL		3 PzS-SL								
6.4	Battery voltage/rated capacity (5 h)	(V/Ah)		24/375		24/375								
				4 PZS SL, Li-ION 205 Ah: 23/205		4 PZS SL, Li-ION 205 Ah: 23/205								
				4 PZS SL, Li-ION 410 Ah: 23/410		4 PZS SL, Li-ION 410 Ah: 23/410								
6.5	Battery weight (± 10 %)	(kg)		272/315 min./max.		272/315 min./max.								
				4 PZS SL, Li-ION 205 Ah: 312		4 PZS SL, Li-ION 205 Ah: 312								
				4 PZS SL, Li-ION 410 Ah: 351		4 PZS SL, Li-ION 410 Ah: 351								
6.6	Power Consumption according to VDI cycle normalized	(kWh/h)		1.27		1.47								
6.7	Turnover output according to VDI cycle	(T/h)		63		70.4								
6.8	Power Consumption on turnover output	(kWh/h)		1.84		1.85								
8.1	Type of drive unit			LAC		LAC								
10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))		< 66		< 66								

1) In brackets: pallet truck capacity on the support arms, with initial lift option

2) Support arms low position/high position

3) Values with a T mast (+ 26 mm for S or D mast)

4) Values with 6.3 line battery for 3 PzS

5) In brackets: truck equipped with boogie option

6) Values with standard mast 4266T; for other values see mast table

7) Value with lowered platform

8) Free-lift with booster option = 0.40 m/s

9) Value with creep speed tiller

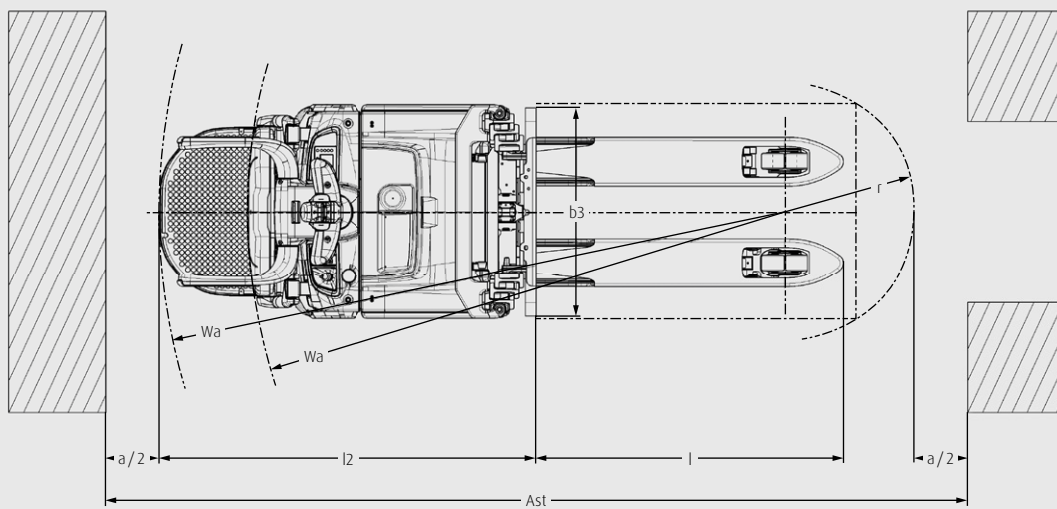
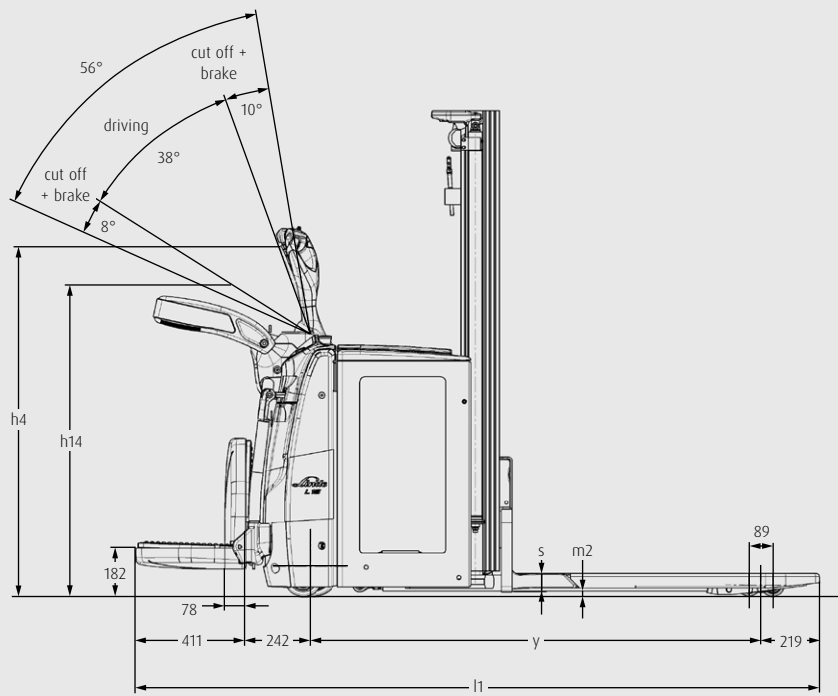
10) Value with bumper

11) Initial lift with tiller creep speed

12) Initial lift with bumper

13) Initial lift with closed platform

14) Initial lift with lowered platform



# MAST TABLES

## STANDARD MAST (in mm)

Lift	h3: 1574	h3: 1924	h3: 2424	h3: 2924	h3: 3324	h3: 3824
Height measurements	h1: 1315 h2: 150 h3+h13: 1660 h4: 2110	h1: 1490 h2: 150 h3+h13: 2010 h4: 2460	h1: 1740 h2: 150 h3+h13: 2510 h4: 2960	h1: 1990 h2: 150 h3+h13: 3010 h4: 3460	h1: 2190 h2: 150 h3+h13: 3410 h4: 3860	h1: 2440 h2: 150 h3+h13: 3910 h4: 4360
Model						
D12 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D14 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## DUPLEX MAST (in mm)

Lift	h3: 1574	h3: 1924	h3: 2424	h3: 2924	h3: 3324	h3: 3824
Height measurements	h1: 1240 h2: 704 h3+h13: 1660 h4: 2110	h1: 1415 h2: 879 h3+h13: 2010 h4: 2460	h1: 1665 h2: 1129 h3+h13: 2510 h4: 2960	h1: 1915 h2: 1379 h3+h13: 3010 h4: 3460	h1: 2115 h2: 1579 h3+h13: 3410 h4: 3860	h1: 2365 h2: 1829 h3+h13: 3910 h4: 4360
Model						
D12 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D14 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## TRIPLEX MAST (in mm)

Lift	h3: 1574	h3: 3516	h3: 4266
Height measurements	h1: 1165 h2: 629 h3+h13: 1660 h4: 2067	h1: 1665 h2: 1129 h3+h13: 3602 h4: 4052	h1: 1915 h2: 1379 h3+h13: 4352 h4: 4802
Model			
D12 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D14 AP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional equipment

**h1:** Height of mast, lowered

**h2:** Free lift

**h3:** Lift

**h4:** Height of mast, extended

**h3+h13:** Lift + Fork height

# STANDARD AND OPTIONAL EQUIPMENT

	Model/Equipment	D12 AP	D14 AP
Safety	Folding side guards	●	●
	Automatic speed reduction when cornering	●	●
	Key switch	●	●
	Log in PIN code	○	○
Service	CAN bus technology	●	●
Digitalisation	Linde Connected Solutions:	○	○
	ac: access control (PIN or RFID Dual),	○	○
	an: usage analysis and dt: crash detection	○	○
	Data transfer online	○	○
	Data transfer WIFI	○	○
	Bluetooth USB Stick	○	○
Operation/ Load Handling	Ultra fast fitting	○	○
	Creep speed control	●	●
	Linde Safety lift function	●	●
	Pallet stop	●	●
	Load backrest 1000 mm	○	○
	Initial lift	●	●
Soft landing of forks	○	○	
Environment	Cold store -35 °C (in/out)	○	○
Workplace	Suspended platform	●	●
	Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	●	●
	Spacious storage compartments	●	●
	Pack clipboard	○	○
Mast	Standard	○	○
	Simplex	○	○
	Duplex	○	○
	Triplex	○	○
	Mast protection: polycarbonate	●	●
	Mast protection: mesh	○	○
Attachment/ Forks	Fork carriage 560/1150/55 mm	●	●
	Fork carriage 680/1150/55 mm	○	○
Axles and Tyres	Drive wheels polyurethane	●	●
	Drive wheels cushion rubber, non marking, wet grip	○	○
	Single load wheels polyurethane	●	●
	Tandem load wheels gresseable or no gresseable	○	○
	Double castor wheels	●	●
	Double castor wheels gresseable	○	○
Drive and Brake-system	OptiLift® system	●	●
	2.3 kW AC (maintenance free)	●	●
	Electromagnetic braking system	●	●
	Battery compartment, lateral change 3 PzS (345 Ah/375 Ah)	●	●
	Battery compartment, lateral change 4 PzS (460 Ah/500 Ah)	○	○
	Battery compartment, Li-ION battery 4.5 kWh (205 Ah)/9.0 kWh (410 Ah) inclusive side plug for opportunity charging	○	○
	Li-ION 24 V charger	○	○

● Standard equipment

○ Optional equipment

# CHARACTERISTICS



Folding side guards protect the operator

## Safety

- Folding side guards protect the operator from injury
- Electromagnetic brake prevents accidents
- Soft, slip-proof rubber padding



Spacious workstation

## Ergonomics

- Fully suspended operator compartment increased driver comfort
- One-handed operation of all driving and lifting functions for quick, easy transportation
- Numerous storage compartments
- Creep speed enables precise, convenient load handling
- Effortless folding up and down of the platform



Efficient transport of two pallets

## Handling

- Linde OptiLift® mast control ensures a high level of precision at a fast pace of work
- Pallet stop ensures well positioning of pallets
- Top speed of 10 km/h unloaded and 8 km/h loaded
- Double stacking function allows simultaneous transport of two pallets with a weight of 1000 kg each



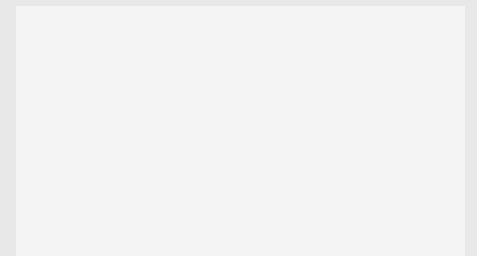
Computerized diagnostic

## Service

- Multi-functional display provides an overview of all the truck information
- Maintenance-free 2.3 kW AC engine guarantees high availability
- CAN bus system for quick and easy diagnosis via notebook
- Easy access to all components

Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.

Presented by:



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