

FOLDABLE PLATFORM DOUBLE STACKER D10 AP

CAPACITY 1000 KG | SERIES 1163

Safety

The D10 AP platform version is perfectly designed to protect the operator during the work 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

The compact and powerful 2.3 kW AC drive unit enables precise maneuvering, with speeds up to 10 km/h. With capacities up to 2000 kg, the D10 AP is designed to transfer two double stacked pallets simultaneously. When used as a double stacker the speed can be further optimized thanks to the new Speed Management option.

Comfort

The fully suspended operator compartment keeps the driver concentrated and maintains high efficiency levels throughout the work shift. All controls on the ergonomic tiller head can be easily operated by either hand. Tasks are made easier thanks to the generous storage compartments for work equipment, such as shrink wrap, which eases the operator's tasks.

Reliability

These ruggedly constructed trucks incorporating tried and tested technology (lifting functions etc.) and components, deliver consistent reliability. The battery cover, as well as the robust chassis, are remarkably solid and resistant to damage. The sturdy mast and durable fork carriage are made out of high-grade rolled steel to ensure easy and safe load handling.

Service

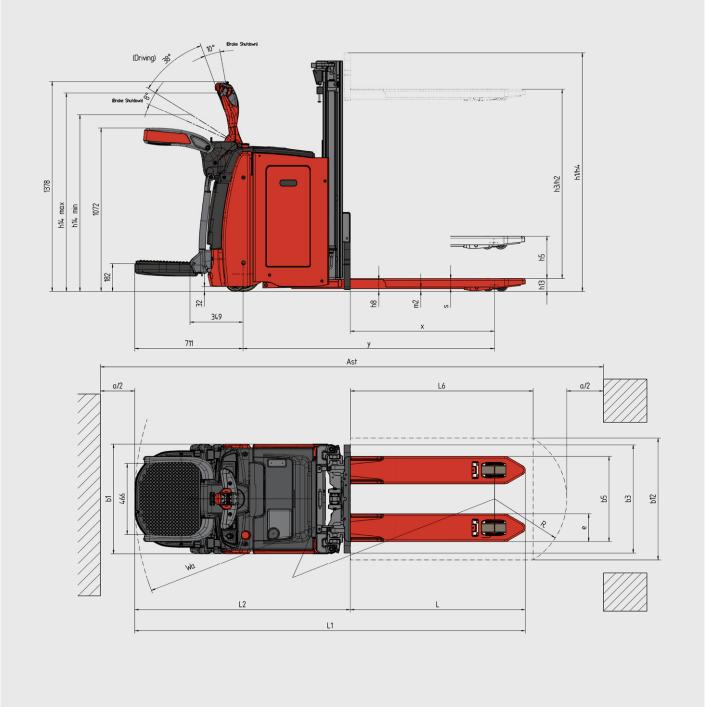
A maintenance-free AC motor reduces service costs. Operating paramaters can be individually adjusted to the operator's needs via the CAN-bus system. The service engineer has fast, easy access, not only to truck data, via the CAN-bus system, but also to all main internal components.



TECHNICAL DATA

ACCORDING TO VDI 2198

Characteristics	1.1	Manufacturer		LINDE
	1.2	Model design		D10 AP
	1.3	Power unit		Battery
	1.4	Operation		Standing
	1.5	Load capacity/load	Q (t)	1.0
	1.6	Load centre distance	c (mm)	600
	1.8	Axle centre to fork face	x (mm)	950
	1.9	Wheelbase	y (mm)	1653
Weight	2.1	Service weight	(kg)	1339
	2.2	Axle load with load, front / rear	(kg)	1317/2035
	2.3	Axle load without load, front/rear	(kg)	997/342
	3.1	Tyres rubber, SE, pneumatic, polyurethane		R + P/P
	3.2	Tyre size, front		230 x 90
ls es	3.3	Tyre size, rear		85 x 85 (bogies 85 x 60)
typ	3.4	Auxiliary wheels (dimensions)		2 x 125 x 60
Wheels and types	3.5	Wheels, number front / rear (x = driven)		1x + 2 / 2 (1x + 2 / 4)
	3.6	Track width, front	b ₁₀ (mm)	502
	3.7	Track width, rear	b ₁₁ (mm)	380
	4.2	Height of mast, lowered	h, (mm)	1465 (2024S)
	4.3	Free lift	h ₂ (mm)	150 (2024S)
	4.4	Lift	h ₂ (mm)	2024 (20245)
	4.5	Height of mast, extended		2544 (20245)
	4.6	Initial lift		125
	4.9	Height of tiller arm in operating position, min/max		1160/1305
	4.15	Height, lowered	h ₁₃ (mm)	86
S	4.19	Overall length		2570
Dimensions	4.20	Length to fork face	l, (mm)	1420
len	4.21	Overall width		720
Dim	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	50 x 180 x 1150
	4.24	Width of fork carriage	b, (mm)	710
	4.25	Fork spread	b _s (mm)	540/560
	4.26	Distance between wheel arms/loading surfaces	b ₄ (mm)	210/230
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	20
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	A _{st} (mm)	3030
	4.34.2	Aisle width with pallet 800 x 1200 along forks	A _{st} (mm)	3140
	4.35	Turning radius		2340
	5.1	Travel speed, with/without load	(km/h)	10.0/10.0
Performance	5.2	Lifting speed, with/without load	(m / s)	0. 050 / 0.061
	5.2	Main lifting speed	(m / s)	0. 14/0.22
	5.3	Initial lowering speed	(m / s)	0.102/0.082
	5.3	Main lowering speed	(m / s)	0.488/0.197
Peri	5.8	Ramp maxiumum (0 kg, 1000 kg, 2000 kg)	%	20/15/12
	5.9	Acceleration time, with/without load	(S)	6.7/5.4
	5.10	Service brake		Electro-magnetic
	6.1	Drive motor rating S2 60min	(kW)	2.3
	6.2	Lift motor rating at S3 15%	(kW)	2.2
e e	6.3	Battery according to DIN 43531/35/36 A, B, C, no		3PZs SL
Drive	6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24/375
	6.5	Battery weight (± 5%)	(kg)	290
	6.6	Power consumption according to VDI cycle	(kWh/h)	0.821
	8.1	Type of drive unit		LAC



MAST TABLES

Mast type	15745	17245	20245	24245	1574D	1724D	2024D	2424D	2136T
h,	1240	1315	1465	1665	1240	1315	1465	1665	1165
h _r	1315	1390	1540	1740	/	/	/	/	/
h ₂	150	150	150	150	720	795	945	1145	645
h ₃	1574	1724	2024	2424	1574	1724	2024	2424	2136
h ₄	2094	2244	2544	2944	2094	2244	2544	2944	2662
Other masts on request. S = Standard, D = Duplex, T = Triplex									

STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

OPTIONAL EQUIPMENT

720 mm chassis width smaller than a pallet	Hydraulic castor wheels				
Fully suspended operator compartment	Drive wheels: cushion, cushion with tread, non-marking or wet grip				
Foldable stand-on platform with side guards	Load wheels: tandem polyurethane or single/tandem polyurethane greasabl load wheels				
Linde OptiLift®: proportional control on the tiller					
Power assisted steering with variable steering resistance	Load backrest (h = 1000 mm)				
Automatic speed reduction when cornering	Alternative fork dimensions				
2.3kW AC motor (maintenance-free)	Low speed option when initial lift is lowered				
Vertical 3PzS battery compartment	Lift end stop sensor				
Electromagnetic emergency brake acting proportionally to the load weight	Soft landing of forks				
Key switch or Log in PIN code (no extra)	Accessory support				
CAN-bus technology	Support data terminal incl. power supply cable 24V				
Multifunction coloured display: hour meter, maintenance indication, battery	Support clipboard DIN A4				
discharge indicator and internal fault code indication	Support for scanner				
Polyurethane drive wheel	Built-in charger				
Polyurethane single load wheels	Lateral 3PzS battery compartment				
Mast protection: polycarbonate or mesh wired (no extra)	Lateral 4PzS battery compartment				
Protection: -10° C	Battery stand – fixed and mobile				
	Cold store protection: -35° C				
	Working lamp LED front				

Other options available on request

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

Li-ION technology:

3PzS compartment with 4.5kWh - 9kWh (205Ah - 410Ah)

Li-ION charger:

24V-Charger v255: 4.5 kWh (full charging time 1h 30 min) - 9.0 kWh (2h 40 min)



FEATURES

Platform

- → Fully suspended operator compartment
- \rightarrow Platform and handle bar are decoupled from the chassis
- \rightarrow Reduced vibrations for the legs and for the upper body
- \rightarrow Soft, slip-proof rubber padding
- → Entire platform surface acts as an operator detection switch
- \rightarrow Foldable side guards

Speed management

- → Increased performance when used as double stacker
- \rightarrow Speed optimization of the truck is linked to the weight of the load on the free lift



Handling

- \rightarrow 720 mm chassis width narrower than a pallet
- \rightarrow Compact and robust chassis for easy handling in narrow spaces
- \rightarrow A creep speed button ensures high maneuverability in confined areas when operating with the tiller in an upright position

Lifting system

- \rightarrow OptiLift[®] mast controls provides accurate, fully proportional lifting, as well as, smooth, quiet operation
- \rightarrow Soft landing of forks protects load when lowering
- → Initial lift independent of main lift
- \rightarrow Max. lift height up to 2424 mm
- → Max. load capacity in double-stacking use: 1000 kg on forks and 1000 kg on load arms

Braking

- \rightarrow Highly efficient mechanical brake when tiller is fully raised or lowered
- \rightarrow Automatic electric braking on releasing the butterfly control or reversing direction
- → Truck slows down prior to stopping remaining under complete control at all times
- \rightarrow No roll-back when starting on a slope



Workstation

- \rightarrow All controls are ergonomically integrated in the tiller head
- \rightarrow Multifunctional instrument display with easy ergonomic menu
- \rightarrow Truck access control by PIN code or ignition key
- → Storage compartment for work gloves, writing utensils etc.
- → Emergency isolator



Comprehensive energy solutions

- \rightarrow 24 V batteries: capacities from 345 Ah (3 PzS) to 500 Ah (4 PzS)
- \rightarrow Li-ION batteries with 4.5 KWh (205 Ah) and 9.0 kWh (410 Ah)
- \rightarrow Optional built-in charger available
- \rightarrow Optional lateral change, including rollers inside the battery compartment and a lever to aid battery change



AC Motor

- → Compact, efficient and maintenance-free 2.3kW AC motor
- \rightarrow Innovative castor wheel design offers maximum traction and stability for demanding application, such as, loading/unloading

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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