

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.





STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

720 mm chassis width smaller than a pallet	
Fully suspended operator compartment	
Foldable stand-on platform with side guards	
Linde OptiLift®: proportional control on the tiller	
Power assisted steering with variable steering resistance	
Automatic speed reduction when cornering	
2.3kW AC motor (maintenance-free)	
Vertical 3PzS battery compartment	
Electromagnetic emergency brake acting proportionally to the load weight	
Key switch or Log in PIN code (no extra)	
CAN-bus technology	
Multifunction coloured display: hour meter, maintenance indication, battery discharge indicator and internal fault code indication	
Polyurethane drive wheel	
Polyurethane single load wheels	
Mast protection: polycarbonate or mesh wired (no extra)	

Protection: -10° C

OPTIONAL EQUIPMENT

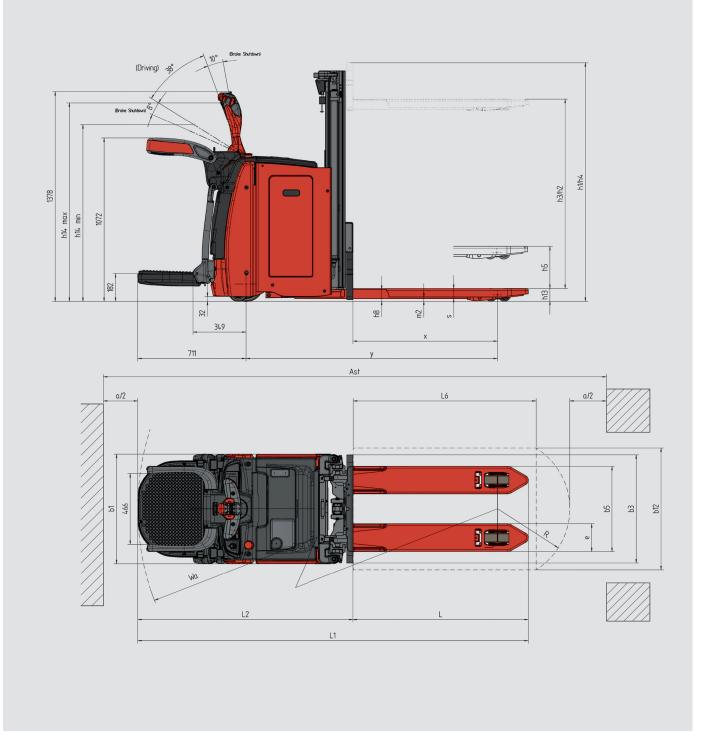
Drive w	heels: cushion, cushion with tread, non-marking or wet gri
	heels: tandem polyurethane or single/tandem polyurethane ole load wheels
Load ba	ackrest (h = 1000 mm)
Alterna	tive fork dimensions
Low sp	eed option when initial lift is lowered
Lift end	stop sensor
Soft lar	ding of forks
Accesso	ory support
Suppor	t data terminal incl. power supply cable 24V
Suppor	t clipboard DIN A4
Suppor	t for scanner
Built-in	charger
Lateral	3PzS battery compartment
Lateral	4PzS battery compartment
Battery	stand – fixed and mobile
Cold sto	pre protection: –35° C
Workin	g lamp LED front
Other o	ptions available on request
Linde (connected Solutions:
	ess control (PIN or RFID Dual), ge analysis and dt: crash detection
Data tra	ansfer online
Data tra	ansfer WIFI
Bluetoc	th USB Stick
Li-ION	technology:
3 PzS co	mpartment 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)

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
Ħ	2.1	Service weight	(kg)	1339
Weight	2.2	Axle load with load, front/rear	(kg)	1317/2035
Ň	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
Wheels and types	3.3	Tyre size, rear		85 x 85 (bogies 85 x 60)
Wheels ind type:	3.4	Auxiliary wheels (dimensions)		2 x 125 x 60
	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 (20245)
	4.3	Free lift	h ₂ (mm)	150 (2024S)
	4.4	Lift	h ₃ (mm)	2024 (20245)
	4.5	Height of mast, extended	h ₄ (mm)	2544 (2024S)
	4.6	Initial lift	h _s (mm)	125
	4.9	Height of tiller arm in operating position, min/max	h ₁₄ (mm)	1160/1305
	4.15	Height, lowered	h ₁₃ (mm)	86
S	4.19	Overall length	l, (mm)	2570
Dimensions	4.20	Length to fork face	l ₂ (mm)	1420
ner	4.21	Overall width	b ₁ /b ₂ (mm)	720
Dir.	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	50 x 180 x 1150
	4.24	Width of fork carriage	b ₃ (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	W _a (mm)	2340
	5.1	Travel speed, with/without load	(km/h)	10.0/10.0
	5.2	Lifting speed, with/without load	(m / s)	0.050/0.061
Performance	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
Pel	5.8	Ramp maxiumum (0 kg, 1000 kg, 2000 kg)	%	20/15/12
Drive	5.9	Acceleration time, with/without load	(5)	6.7/5.4
	5.10	Service brake		Electro-magnetic
	6.1	Drive motor rating S2 60 min	(kW)	2.3
	6.2	Lift motor rating at S3 15 %	(kW)	2.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		3 PZs SL
	6.4	Battery voltage/rated capacity (5 h)	(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
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	65



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										

FEATURES

Platform

- \rightarrow Fully suspended operator compartment
- → 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

- \rightarrow Increased performance when used as double stacker
- → 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
- → Compact and robust chassis for easy handling in narrow spaces
- → A creep speed button ensures high maneuverability in confined areas when operating with the tiller in an upright position



Workstation

- \rightarrow All controls are ergonomically integrated in the tiller head
- → 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.
- \rightarrow 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
- → Optional lateral change, including rollers inside the battery compartment and a lever to aid battery change

Lifting system

- → OptiLift[®] mast controls provides accurate, fully proportional lifting, as well as, smooth, quiet operation
- → Soft landing of forks protects load when lowering
- \rightarrow 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

- → Highly efficient mechanical brake when tiller is fully raised or lowered
- → 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



AC Motor

- → Compact, efficient and maintenance-free 2.3 kW AC motor
- → 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.

Linde Material Handling



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