ncnielsen
Lithium-ION

Pedestrian Double Stacker
Capacity 600 kg - 800 kg
D06, D08

Series 1160

Linde Material Handling

Safety
The long tiller with its low mounting point ensures adequate safety clearance between operator and chassis. Creep speed, proportional speed control and safety lift functions provide optimum safety during transporting and stacking in confined areas. The low chassis skirt protects the operator's feet.

Performance
The D08 can handle two pallets at once with a maximum total capacity of 1800 kg. The innovative castor wheels ensure the optimum mix of stability and traction in all situations. The OptiLift mast control provides accurate, fully proportional lifting and assures quiet smooth operation.

Comfort
All controls on the ergonomic tiller head can be easily operated by either hand. A Creep speed button offers utmost manoeuvrability in confined areas. Generous storage compartments for work equipment such as shrink wrap eases the operator's tasks.

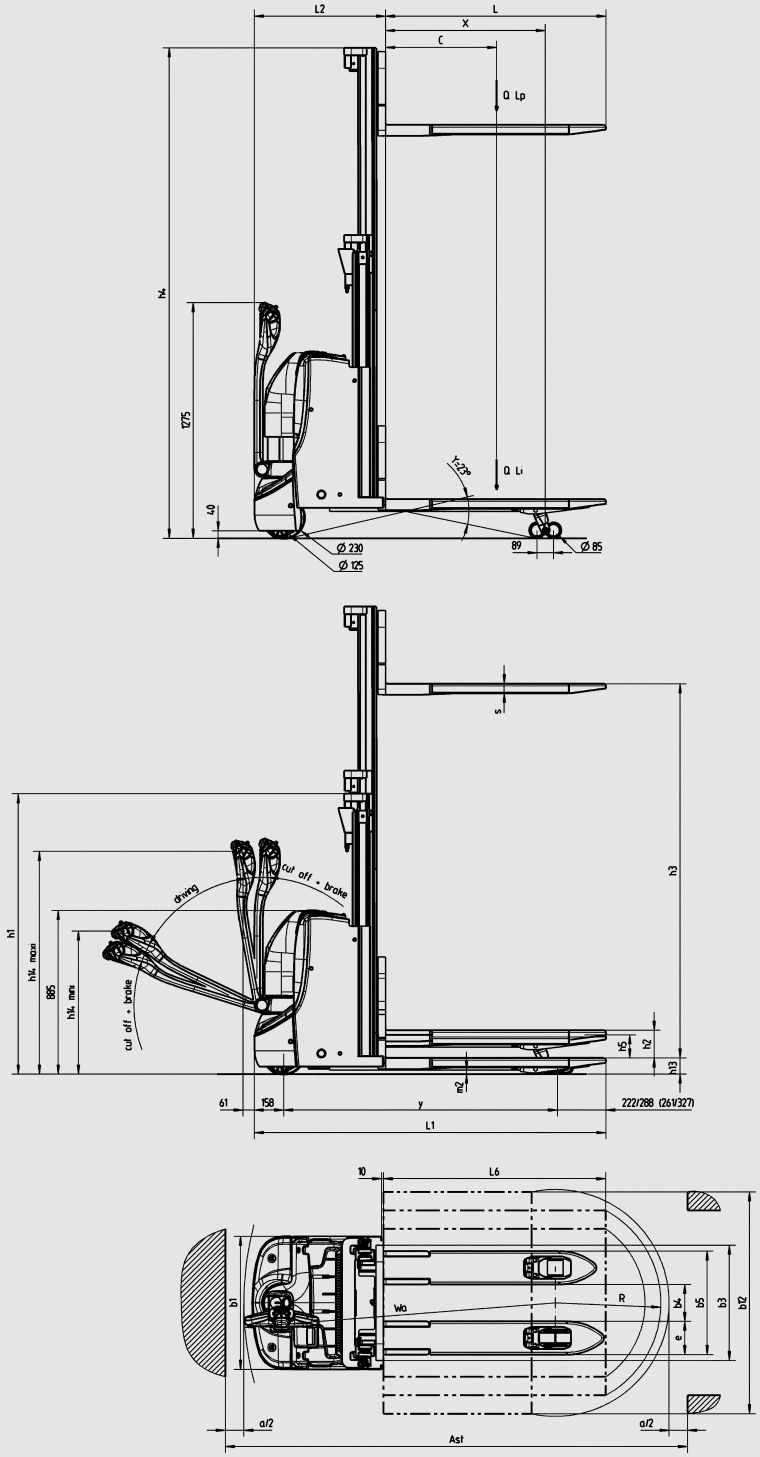
Reliability
Rugged construction makes the D06/D08 a Double Stacker that can be relied on. The Extraal® motor cover as well as the robust chassis are remarkably solid and resistant to damage. The sturdy mast and durable fork carriage are made of high-grade rolled steel to ensure easy and safe load handling.

Service
The innovative castor wheels require no adjustment. Furthermore, a maintenance-free AC motor reduces service costs. Operating paramaters can be individually adjusted to the operator's need 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	LINDE
	1.2	Manufacturer's type designition		**D06**	**D08 / [D08 ION]** [1]
	1.2a	Series		1160-00	1160-00
	1.3	Power unit		Battery	Battery
	1.4	Operation		Pedestrian	Pedestrian
	1.5	Load capacity/Load	Q (t)	0.6 / 1.0 [2]	0.8 / 1.0 [3] [4]
	1.6	Load centre distance	c (mm)	600	600
	1.8	Axle centre to fork face	x (mm)	862 / 928 [3] [6]	858 / 924 [3] [5]
	1.9	Wheelbase	y (mm)	1413 / 1479 [3] [6]	1463 / 1529 [4] [5]
Weights	2.1	Service weight	(kg)	854 [7]	948 [886] [1] [7]
	2.2	Axle load with load, front/rear	(kg)	912 / 1542 [7]	991 / 1757 [940 / 1746] [1] [7]
	2.3	Axle load without load, front/rear	(kg)	615 / 239 [7]	674 / 274 [623 / 263] [1] [7]
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Polyurethane	Polyurethane [8]
	3.2	Tyre size, front		Ø 230 x 75	Ø 230 x 75
	3.3	Tyre size, rear		Ø 85 x 85 (Ø 85 x 60) [9]	Ø 85 x 85 (Ø 85 x 60) [9]
	3.4	Auxiliary wheels (dimensions)		2x Ø 125 x 40	2x Ø 125 x 40
	3.5	Wheels, number front/rear (x = driven)		1x + 2 / 2 (1x + 2 / 4) [9]	1x + 2 / 2 (1x + 2 / 4) [9]
	3.6	Track width, front	b10 (mm)	482 [5]	482 [5]
	3.7	Track width, rear	b11 (mm)	360 / 380 [5] [10]	360 / 380 [5] [10]
Dimensions	4.2	Height of mast, lowered	h1 (mm)	1465 [5]	1465 [5]
	4.3	Free lift	h2 (mm)	150 [5]	150 [5]
	4.4	Lift	h3 (mm)	2024 [5]	2024 [5]
	4.5	Height of mast, extended	h4 (mm)	2652 [5]	2652 [5]
	4.6	Initial lift	h5 (mm)	125	125
	4.9	Height of tiller arm in operating position, min/max	h14 (mm)	740 / 1230	740 / 1230
	4.10	Height of reach legs	h8 (mm)	80	80
	4.15	Height, lowered	h13 (mm)	86	86
	4.19	Overall length	l1 (mm)	1859 [5]	1914 [5]
	4.20	Length to fork face	l2 (mm)	709 [5]	764 [5]
	4.21	Overall width	b1/b2 (mm)	720 [5]	720 [5]
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	60 x 180 x 1150 [11]	60 x 180 x 1150 [11]
	4.24	Width of fork carriage	b3 (mm)	711 [5]	711 [5]
	4.25	Fork spread	b5 (mm)	540 / 560 [5]	540 / 560 [5]
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	210 / 230	210 / 230
	4.31	Ground clearance, below mast	m1 (mm)	20 / 145 [12]	20 / 145 [12]
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	20 / 145 [12]	20 / 145 [12]
	4.34.1	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	2104 [13]	2158 [13]
	4.34.2	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	2154 [13]	2208 [13]
	4.35	Turning radius	Wa (mm)	1616 / 1682 [9]	1666 / 1732 [9] [14]
Performance	5.1	Travel speed, with/without load	(km/h)	6 / 6 [15]	6 / 6 [15]
	5.2	Lifting speed, with/without load	(m/s)	0.114 / 0.152 [7]	0.1 / 0.152 [7]
	5.3	Lowering speed, with/without load	(m/s)	0.245 / 0.171 [7]	0.251 / 0.171
	5.8	Maximum climbing ability, with/without load	(%)	14.0 / 25.0	-
	5.9	Acceleration time, with/without load	(s)	7.6 / 6.6	-
	5.10	Service brake		Electro-magnetic	Electro-magnetic
Drive	6.1	Drive motor rating S2 60 min	(kW)	1.2	1.2
	6.2	Lift motor rating at S3 15%	(kW)	1.2	1.2
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		2PzB	43 535/B [Li-ION] [1]
	6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 / 150 [16]	24 / 250 [23 / 82] [1]
	6.5	Battery weight (± 5%)	(kg)	157	212 [150] [1]
	6.6	Power consumption according to VDI cycle	(kWh/h)	0.61	-
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	65	65

1) Figures in [ ] with Li-ION battery see line 6.4
2) Load distribution e.g. 600 kg on the forks, 1000 kg on the fork arms. Total load max. 1600 kg.
3) 1600 kg on the load arms (initial lift) - reduced to 800 kg on the lifted forks (auxiliary lift)
4) Load distribution e.g. 800 kg on the forks, 1000 kg on the fork arms. Total load max. 1800 kg.
5) (± 5 mm)
6) Forks upraised / lowered
7) (± 10%)
8) Solid rubber + polyurethane / polyurethane
9) Figures in parenthesis with tandem load wheels.
10) Depending on the forks spread; see 4.25
11) With auxiliary hydraulics h4 new min. = h4 + 100 mm and h2 new max = h2 - 100 mm
12) min./max.
13) Including a 200 mm (min.) operating aisle clearance.
14) With creep speed = tiller in vertical position
15) (± 5%)
16) British Standard Circuit A



Masts (D06/D08) (in mm)		Standard mast	Standard mast	Standard mast
Lift	**h3**	1574	1724	2024
Lift + fork height	**h3+h13**	1660	1810	2110
Height lowered	**h1**	1365	1440	1590
Height raised	**h4**	2202	2352	2652
Free lift	**h2**	150	150	150

Features

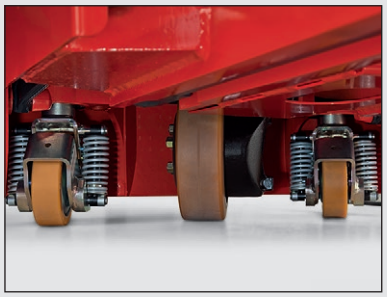
Safety
- → Safety lift ensures hazard-free lifting with tiller in vertical position
- → Proportional speed control varies truck speed automatically in relation to tiller angle for safe, comfortable and productive operation
- → End-of-stroke resistance on tiller avoids accidental, abrupt braking
- → Soft tiller fold-back slows down tiller when returning into upright position - avoiding tiller snapping on the motor cover
- → Long tiller arm with low mounting point

Lifting system
- → OptiLift mast control provides accurate, fully proportional lifting as well as smooth, quiet operation
- → Soft landing of forks protects load when lowering
- → Initial lift independent of main lift
- → Max. lift height up to 2024 mm
- → Max. load capacity in Double-Stacking use: 600 kg (D06) and 800 kg (D08) on forks/1000 kg on load arms

Handling
- → Compact and robust chassis for easy handling in narrow spaces
- → A Creep speed button ensures high manoeuvrability in confined areas when operating with tiller in upright position
- → Long tiller arm reduces steering effort
- → Pallet stop for fast stacking of two pallets

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

Traction
- → Compact, efficient and maintenance-free 1.2 kW AC motor
- → Max. travel speed: 6 km/h (adjustable)
- → Innovative castor wheel design offers maximum traction and stability for demanding applications such as loading/unloading



Batteries and chargers
- → Lead acid BS or 2PzS battery up to 250Ah
- → Lateral change for 2PzS compartment
- → Optional build-in charger available
- → Lithium-ion batteries available
- → Opportunity charging 60% in 40 min

Controls
- → Separate controls for initial lift and main lift
- → OptiLift proportional lifting controls
- → Creep speed ensures high manoeuvrability in confined areas
- → All controls are ergonomicly integrated in tiller head
- → Additional lifting/lowering buttons on chassis side (option)
- → Automatic lifting or lifting/lowering function (option)

Maintenance
- → Adjustment-free castor wheels
- → Maintenance-free, moisture and dust-proof AC motor
- → CAN-bus architecture enables fast, easy access to all truck data and adjustment of truck parameters
- → Fast and convenient access to main components via front service panel

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