



Order Picker with Fork Lift Capacity 1200 kg – 2000 kg N 20 L, N 20 Li

SERIES 132

Safety

Compact design of the Linde control handlebars ensures that the operator remains well within the truck contours while driving. Ergonomic design of the twin grips enclosed by a hand guard and 4 mm thick steel body panels assure excellent safety for the operator.

Performance

Efficiency on the job is the truck's true strength. Driven by a 3 kW AC motor, it quickly accelerates to top speed (12 km/h unloaded). Four-point support ensures high stability and the OptiLift® control is perfect to achieve high precision and productivity in order picking and pallet handling.

Comfort

Precision working at the highest level of performance calls for a high level of operator comfort. A scoop seat and full-suspension platform surfaced with a cushioning non-skid mat provide superior comfort on long transport runs and over uneven ground.



Linde Material Handling

Linde

Reliability

The sturdy lift mast, robust Linde twin-grip handlebars and high-grade pressed steel chassis construction contribute to appreciably longer truck life as well as improving order picking performance.

Service

Speed and economy continue over into truck diagnosis and preventive maintenance. CAN bus connectivity enables all truck data to be read out on a laptop computer by the service technician. Swift access to all components and maintenance-free AC technology play an additional part in keeping truck uptime up.

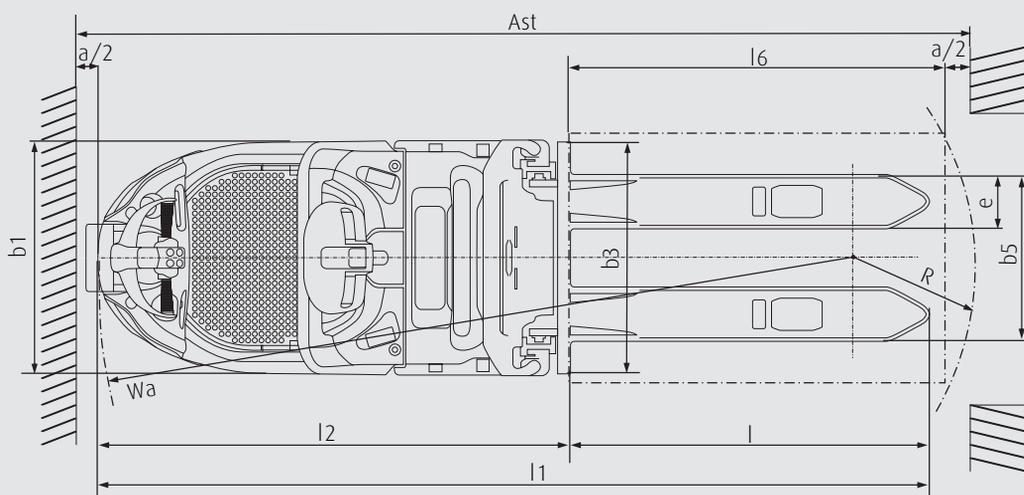
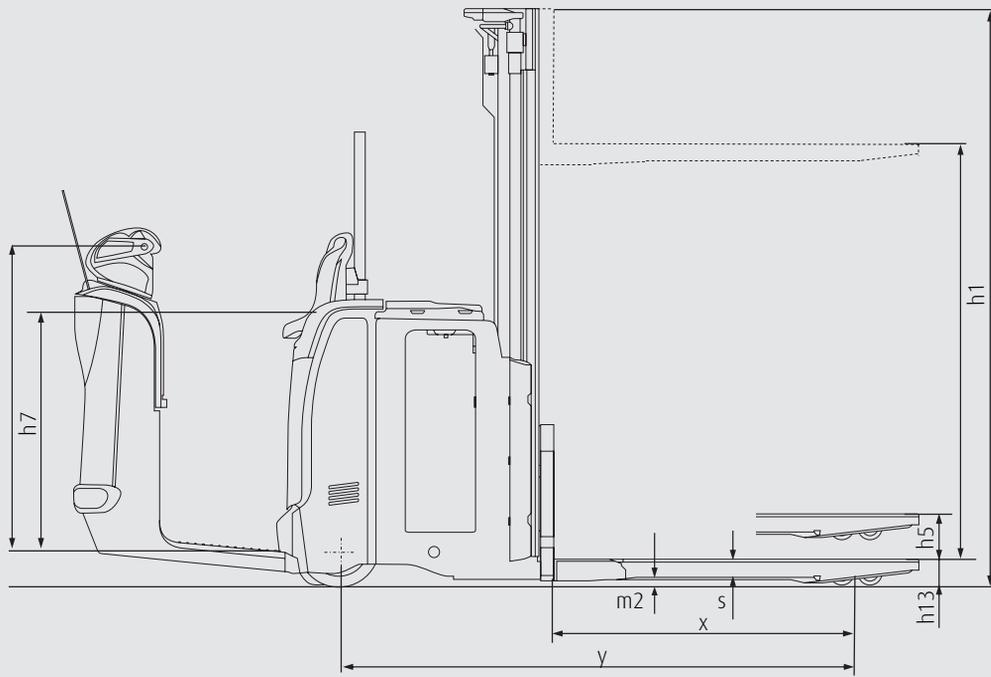
Technical data (According to VDI 2198)

Characteristics	1.1	Manufacturer		LINDE
	1.2	Model designation		N20L
	1.3	Power unit		Battery
	1.4	Operation		Stand-on
	1.5	Load capacity	Q (kg)	1200
	1.6	Load centre	c (mm)	600
	1.8	Axle centre to fork face (± 5 mm)	x (mm)	760
	1.9	Wheelbase (± 5 mm)	y (mm)	1401 ¹⁾
Weights	2.1	Service weight (with battery item 6.5) (± 10 %)	kg	1195
	2.2	Axle load with load (1200 kg), drive side/load side (± 10 %)	kg	982/1413
	2.3	Axle load without load, drive side/load side (± 10 %)	kg	895/300
Wheels	3.1	Tyre treads: Polyurethane, Rubber		R+P/P
	3.2	Tyre size, drive side	ø X l (mm)	ø 254 x 102
	3.3	Tyre size, load side	ø X l (mm)	ø 2 x 85 x 60
	3.4	Auxiliary wheels (dimensions)	ø X l (mm)	ø 100 x 40
	3.5	Wheels number, drive side/load side (x = driven)		1x + 1/2
	3.6	Track width, drive side (± 5 mm)	mm	470
	3.7	Track width, load side (± 5 mm)	mm	380
Dimensions	4.2	Mast height, lowered	h1 (mm)	1315
	4.3	Free lift	h2 (mm)	750
	4.4	Lift	h3 (mm)	750
	4.5	Mast height, extended	h4 (mm)	1315
	4.6	Initialhub	h5 (mm)	-
	4.8	Height of the seat	h7 (mm)	900/1000
	4.9	Height of the handle bar in operating position, min/max	h14 (mm)	1140/1190
	4.15	Fork height, lowered	h13 (mm)	90
	4.19	Overall length (± 5 mm)	l1 (mm)	2618 ¹⁾
	4.20	Length to fork face (± 5 mm)	l2 (mm)	1468
	4.21	Overall width (± 5 mm)	b1 (mm)	790
	4.22	Fork dimensions	s/e/l (mm)	55 x 180 x 1150
	4.23	Load arm dimensions	s/e/l (mm)	50 x 125 x 882
	4.24	Fork carriage width	b3 (mm)	539
	4.25	Fork spread (± 5 mm)	b5 (mm)	560
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	3083 ¹⁾
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	3031 ¹⁾
4.35	Turning radius (fork raised)	Wa (mm)	2236 ¹⁾	
Performance	5.1	Travel speed (forward), with/without load (± 5 %)	km/h	12/10
		Travel speed (backwards), with/without load (± 5 %)	km/h	10/10
	5.2	Lifting speed, with/without load (± 10 mm)	m/s	0.11/0.2
		Lifting speed (initial lift), with/without load (± 10 mm)	m/s	-
	5.3	Lowering speed, with/without load (± 10 mm)	m/s	0.3/0.3
		Lowering speed (initial lift), with/without load (± 10 mm)	m/s	-
	5.7	Climbing ability, with/without load (30 minutes rating)	%	-
	5.8	Maximum climbing ability, with/without load (5 minutes rating)	%	12/18
	5.9	Acceleration time, with/without load	s	-
	5.10	Service brake		Electromagnetic
Drive	6.1	Drive motor (60 minutes rating)	kW	3
	6.2	Lift motor rating 15 %	kW	1.7
	6.3	Battery according to DIN 43531/35/36 A, B, C, no	kW	DIN 43535 B
	6.4	Battery voltage/rated capacity (5h)	V/Ah	24/240
	6.5	Battery weight (± 10 %)	kg	295
	6.6	Battery consumption according to VDI cycle	Ah	-
Others	8.1	Type of drive control		LAC
	8.4	Sound level at operator's ear	dB (A)	<70

Standard truck figures varying according to equipments

1) With a 3PzS Lateral battery change (+100mm for 3PzS vertical and 4PzS lateral; +150mm for the 4PzS vertical)

LINDE
N20 Li
Battery
Stand-on
1200/(2000)
600
948
1625 ¹⁾
1300
1250/1250
1000/300
R+P/P
ø 254x102
ø 2x85x60
ø 100x40
1x+1/2
470
380
1315
150
1574
2110
125
900/1000
1140/1190
90
2654 ¹⁾
1504
790
55x180x1150
60x125x1119
780
560
20
3247 ¹⁾
3118 ¹⁾
2445 ¹⁾
12/10
10/10
0.11/0.2
0.06/0.08
0.3/0.3
0.07/0.07
-
9 (12)/18
-
Electromagnetic
3
1.7
DIN 43535 B
24/240
295
-
LAC
<70



$$Ast = Wa + \sqrt{(l6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

$$Ast = Wa + R + a$$

Safety clearance a = 200 mm

Pallet 800 x 1200 (along forks)

R (Li) = 473 mm

R = 595 mm

Pallet 1000 x 1200 (across forks)

R (Li) = 602 mm

R = 647 mm



Masts N20L & Li (in mm)		750 E	1574 S	1724 S	1924 S
Lift	h3	750	1574	1724	1924
Lift + fork height	h3+h13	840	1664	1814	2014
Height mast lowered	h1	1315	1315	1390	1490
Height mast extended	h4	1398	2110	2260	2460
Free lift	h2	750	150	150	150

Equipment

Standard equipment

Backlit multifunction display	Linde OptiLift® control
Truck activated by entering unique PIN code or by ignition key	AC drive motor
Safe operator compartment with cushioned full-suspension platform	Electromagnetic emergency brake acting proportional to the load weight
Workstation incorporating storage compartments	Cushion drive wheel
Clipboard	Polyurethane stabilizer wheel
Adjustable backrest	Single (L) or Tandem (L/Li) polyurethane load wheels
Power-assisted steering, with a proportional steering resistance	Mast safety screen (polycarbonate or mesh)
Self-centering steering	Fork width 560 mm, fork length 1,150 mm
Positive steering (drive wheel) feedback	Electric horn
Automatic speed reduction when cornering	Protection -10°C

Options

Various mast types, from 750 mm to 1,924 mm	Drive wheel: polyurethane, cushion non-marking or wet grip
Load backrest	Tandem polyurethane load wheels greasable (L/Li)
Inching buttons	Soft landing of fork carriage
Adjustable Linde control handlebars	Reduced speed forks lowered
Overhead guard	Cold store protection -35°C
Feet protection	
Front bow (for computer terminal)	
Battery trolley for side battery change	
Support for data terminal on the bow (front)	Other options available on request.

Features

Drive system

- Four-point support configuration for maximum stability
- Automatic braking on releasing the travel switch
- Well controllable concurrent braking
- Electromagnetic braking initiated by the emergency stop button acts on the drive motor, proportional to the load carried



OptiLift® control

- Located behind scoop seat
- The 60° OptiLift® control brings smoothness and precision with a low sound level
- High performance compact lift unit with no waste of energy
- 1,200 kg capacity allows handling two pallet loads at once

Batteries for every need

- Side battery change (left or right)
- Wide range of batteries (low & high) from 270 Ah (3 PzS) to 620 Ah (4 PzS)
- Battery locking system secures battery in compartment and eases the battery change

Linde control handlebars

- Ergonomic design and position
- Optimum protection for both hands
- All main control functions integrated in the one handle for operation by either hand or both
- Handlebar height adjustment (optional)

CAN bus connectivity

- Electronic management of all components permitting quick and easy diagnosis
- All truck parameters can be configured by the service technician to achieve best performance in every application



Workstation

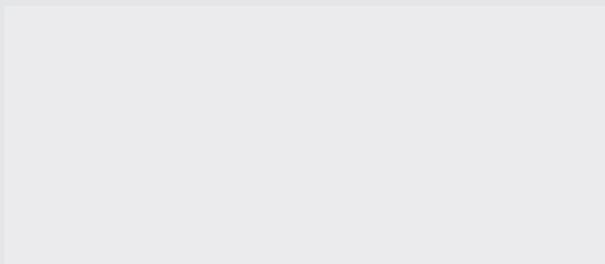
- Digital multifunction display
- Truck activated by entering unique PIN code or by ignition key
- Wide and deep storage compartments at front and center of truck for wrapping paper, work gloves, writing utensils, etc.
- Adjustable scoop seat height to provide comfortable and secure stand

AC motor

- Powerful high-torque 3 kW AC motor (at 100% performance)
- Gradeability 12% fully loaded
- No rollback on uphill starting
- Top speed 10 km/h loaded, 12 km/h unloaded
- Moisture- and dust-proof motor, zero maintenance requirement

Power steering for comfort and safety

- Proportional power-assisted steering, self-centering and effortless to operate
- Positive steering feedback results in an efficient stability
- Automatic speed reduction when cornering
- Manoeuvring effort varies depending on the turning angle



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Linde Material Handling

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Printed in Germany · 059 · e · 4 · 0206 · Ind. B · Co