



## 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.

# Equipment

## Standard equipment

Backlit multifunction display

Truck activated by entering unique PIN code or by ignition key

Safe operator compartment with cushioned full-suspension platform

Workstation incorporating storage compartments

Clipboard

Adjustable backrest

Power-assisted steering, with a proportional steering resistance

Self-centering steering

Positive steering (drive wheel) feedback

Automatic speed reduction when cornering

Linde OptiLift® control

AC drive motor

Electromagnetic emergency brake acting proportional to the load weight

Cushion drive wheel

Polyurethane stabilizer wheel

Single (L) or Tandem (L/Li) polyurethane load wheels

Mast safety screen (polycarbonate or mesh)

Fork width 560 mm, fork length 1,150 mm

Electric horn

Protection -10°C

## Options

Various mast types, from 750 mm to 1,924 mm

Load backrest

Inching buttons

Adjustable Linde control handlebars

Overhead guard

Feet protection

Front bow (for computer terminal)

Battery trolley for side battery change

Support for data terminal on the bow (front)

Drive wheel: polyurethane, cushion non-marking or wet grip

Tandem polyurethane load wheels greasable (L/Li)

Soft landing of fork carriage

Reduced speed forks lowered

Cold store protection -35°C

Other options available on request.

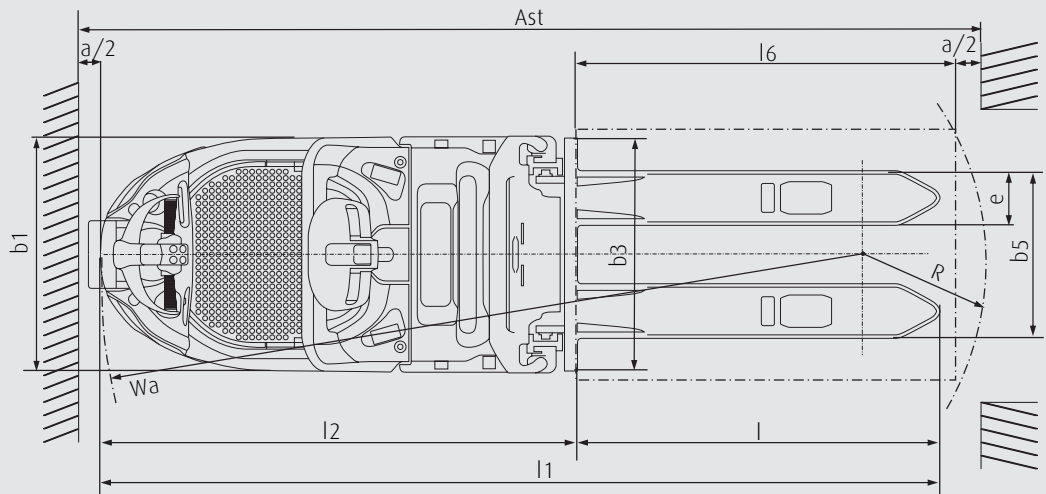
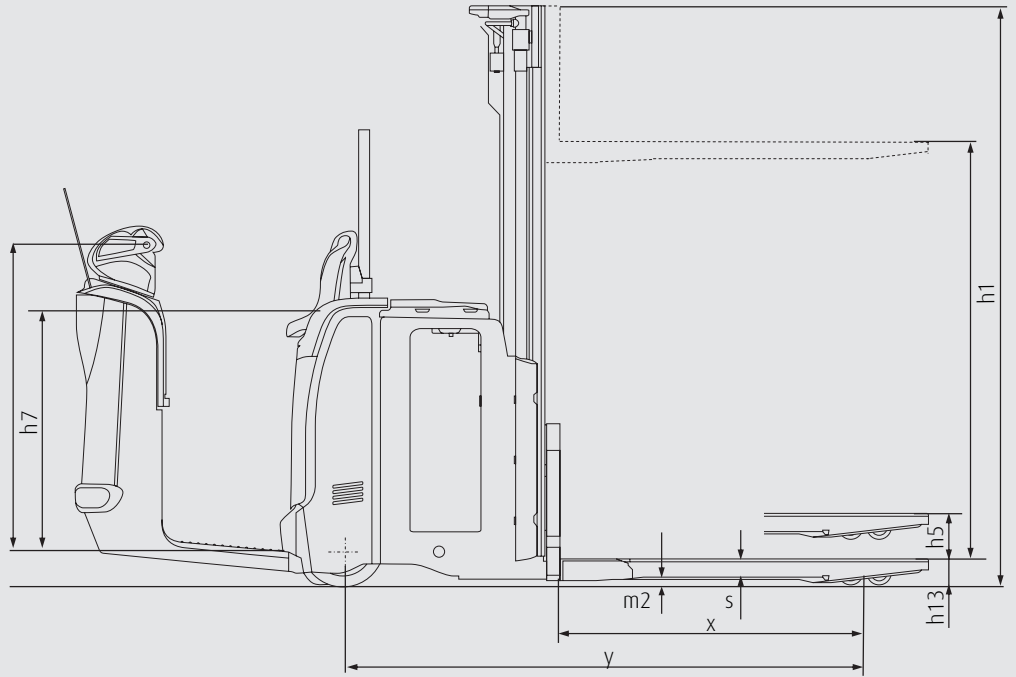
# Technical data (According to VDI 2198)

Characteristics	1.1	Manufacturer		LINDE
	1.2	Model designation		<b>N20L</b>
	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 <sup>1)</sup>
	Weights	2.1	Service weight (with battery item 6.5) (± 10%)	kg
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 <sup>1)</sup>
	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 <sup>1)</sup>
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	3031 <sup>1)</sup>
	4.35	Turning radius (fork raised)	Wa (mm)	2236 <sup>1)</sup>
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 (5 h)	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

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

LINDE
<b>N20Li</b>
Battery
Stand-on
1200/(2000)
600
948
1625 <sup>1)</sup>
1300
1250/1250
1000/300
R+P/P
∅ 254x102
∅ 2 x 85x60
∅ 100x40
1x+1/2
470
380
1315
150
1574
2110
125
900/1000
1140/1190
90
2654 <sup>1)</sup>
1504
790
55x180x1150
60x125x1119
780
560
20
3247 <sup>1)</sup>
3118 <sup>1)</sup>
2445 <sup>1)</sup>
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	<b>h3</b>	750	1574	1724	1924
Lift + fork height	<b>h3+h13</b>	840	1664	1814	2014
Height mast lowered	<b>h1</b>	1315	1315	1390	1490
Height mast extended	<b>h4</b>	1398	2110	2260	2460
Free lift	<b>h2</b>	750	150	150	150

# Features

## Drive system

- Four-point support configuration for maximum stability
- Automatic braking on releasing the travel switch
- Well controllable contercurrent 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

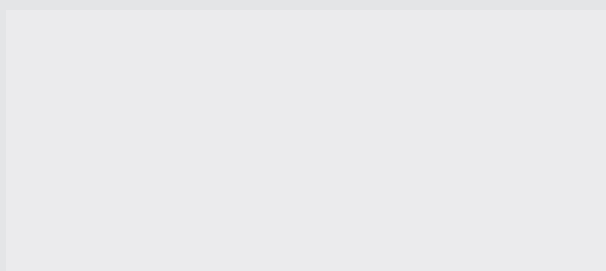
- Digital multifunction display
- Truck activated by entering unique PIN code or by ignition key
- Wide and deep storage compartments at front and center of truck for wrapping paper, work gloves, writing utensils, etc.
- Adjustable scoop seat height to provide comfortable and secure stand

## 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



## Linde AG

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