

# STANDARD AND OPTIONAL EQUIPMENT

	Model/Equipment	N20 XL
Safety	Front casted steel bumper	●
	Automatic speed reduction when cornering	●
	Linde BlueSpot™	○
	Front rubber protection (mounted on the casted steel bumper)	○
	Front feet protection	○
	Mast stop landing (300 mm)	●
	Key switch	●
	Log in PIN code	○
Service	CAN bus architecture	●
Digitalisation	Linde connect: desk	○
	ac: access control (PIN or RFID)	○
	dt: crash detection	○
	an: usage analysis	○
	Linde connect: cloud	○
	Basic Package (trouble codes, operating hours, truck mapping)	○
	Data Transmission (WiFi or Online)	○
Operation / Load Handling	Initial lifting control	●
	Initial lift electrical stop sensor	●
	Soft landing on forks	○
	Load backrest 1000 mm	○
	Inching control (forward only or forward/backward)	○
Environment	Cold store protection to -35°C	○
Workplace	Fully suspended operator compartment	●
	Height adjustable Linde Steering Wheel	○
	Knee protection	●
	Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication	●
	Fixed roundly shaped backrest	●
	Height adjustable backrest including foldable seating support	○
	Front bow	○
	Support data terminal and power supply cable 24 V	○
	Support clipboard DIN A4 and support for scanner	○
	Shrink wrap pole	○
Mast	Rear lower storage	○
	Mast protection in polycarbonate	●
Attachment / Forks	Mast protection in mesh	○
	Fork carriage: 580 mm	●
	Fork carriage length: 2400 mm	●
	Load arms length: 1200 mm	●
	Overhang: 188 mm	●
Axes and Tyres	Drive wheel polyurethane	○
	Tandem load wheels polyurethane	○
	Tandem load wheels polyurethane greasable	●
	Standard castor wheel	●
Drive and Brake-system	Power assisted steering	●
	3 kW AC motor (maintenance free)	●
	Electromagnetic braking system	●
	Battery compartment, lateral battery change 3 PzS (345 Ah/375 Ah) and 4 PzS (460 Ah/500 Ah), including ergonomic lever and metal rollers	○
	Battery compartment, Li-ION battery available	○
Li-ION 24 V-Charger	○	

● Standard equipment    ○ Optional equipment



## Order Picker

# N20 XL

Capacity 0.6 t | Series 1115

### Powerful picking solution

- Long forks enable the simultaneous transport of two pallets with a total weight of up to 1.6 t on initial lift
- Picking of both pallets (2 × 300 kg) takes place at a height of 750 mm which protects the back
- Operator's platform in front of the battery provides a clear view of the warehouse environment and facilitates rapid detection of hazardous situations
- The operating platform is fully suspended and reduces vibrations or shocks caused by unevenness in the ground

## CHARACTERISTICS



Linde BlueSpot™ and front LED light

### Safety

- Three braking systems protect the driver and load
- Flattened contours of the chassis and rounded driver's platform as well as the automatic track centering of the Linde steering wheel offer additional safety
- Automatic stop if the vehicle registers an unoccupied driver's platform or the emergency button is activated
- Additional options such as front LED and Linde BlueSpot™ maximize safety in the warehouse



Intuitive Linde Steering Wheel

### Ergonomics

- Wide operator's platform, easily accessible from both sides, with low access for easy boarding and alighting
- Order picking of two pallets at a height that is easy on the back saves unnecessary movements
- Individual design of the driver's cab with many storage areas
- Intuitively operable Linde Steering Wheel with meaningful symbols indicating key functions
- Fully suspended operator's compartment reduces vibrations and shocks



Pedestrian control

### Handling

- 3 kW three-phase AC motor for effective acceleration to a top speed of 12 km/h
- Optimum power supply to suit the requirements of the fleet through lead-acid or optional lithium-ion batteries
- Double-sided pedestrian operation saves unnecessary boarding and alighting
- Initial lift facilitates transport over ramps and uneven surfaces



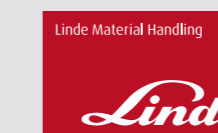
Computerized diagnostic

### Service

- Up to 1000 operating hours without service check
- Maintenance-free three-phase AC technology and adjustment-free brakes reduce service costs
- Easily removable cover to engine compartment for easy access to central components
- Cable harnesses and cables clearly arranged for quick maintenance
- Vehicle data quickly readable via CAN bus connection
- Robust cast-steel front bumper protects truck chassis and driver's platform from damage

Presented by:

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 GmbH**  
 Carl-von-Linde-Platz | 63743 Aschaffenburg | Germany  
 Phone + 49 6021 99 0 | Fax + 49 6021 99 1570  
 www.linde-mh.com | info@linde-mh.com

Printed in Germany | DS\_N20 XL\_1115\_en\_A\_0322

# TECHNICAL DATA (According to VDI 2198)

Characteristics		Linde	
1.1	Manufacturer	Linde	
1.2	Model	N20 XL	
1.2.a	Series	1115-00	
1.3	Power unit	Battery	
1.4	Operation	Preparation	
1.5	Load capacity/Load	Q (t)	1.6 / 0.6 <sup>5)</sup>
1.6	Load centre distance	c (mm)	600/1800
1.8	Axle centre to fork face	x (mm)	932/1002 <sup>5)</sup>
1.9	Wheelbase	y (mm)	1635/1705 <sup>5)</sup>
Weights			
2.1	Service weight	(kg)	1477
2.2	Axle load with load, front/rear	(kg)	817/2260
2.3	Axle load without load, front/rear	(kg)	1081/396 <sup>3)</sup>
Wheels/Tyres			
3.1	Tyres rubber, SE, pneumatic, polyurethane	C + P/P, P + PP	
3.2	Tyre size, front	Ø × l (mm)	Ø 254 × 102
3.3	Tyre size, rear	Ø × l (mm)	2 × Ø 85 × 60 (Ø 85 × 85) <sup>3)</sup>
3.4	Auxiliary wheels (dimensions)	Ø × l (mm)	2 × Ø 140 × 50
3.5	Wheels, number front/rear (x = driven)		1x + 1/2 (1x + 1/4) <sup>3)</sup>
3.6	Track width, front	b10 (mm)	572
3.7	Track width, rear	b11 (mm)	380
Dimensions			
4.2	Height of mast, lowered	h1 (mm)	1465 <sup>6)</sup>
4.3	Free lift	h2 (mm)	750 <sup>6)</sup>
4.4	Lift	h3 (mm)	865 <sup>6)</sup>
4.5	Height of mast, extended	h4 (mm)	1465 <sup>6)</sup>
4.6	Initial lift	h5 (mm)	115
4.8	Seat height relating to SIP/stand height, minimum/maximum	h7 (mm)	867/1000
4.9	Height of tiller arm in operating position, minimum/maximum	h14 (mm)	1216/1316
4.10	Height of reach legs	h8 (mm)	80
4.15	Height, lowered	h13 (mm)	90
4.19	Overall length	l1 (mm)	4007 <sup>6)</sup>
4.20	Length to fork face	l2 (mm)	1607 <sup>6)</sup>
4.21	Overall width	b1/b2 (mm)	800
4.22	Dimension of the fork arm	s/e/l (mm)	70 × 210 × 2400
4.23	Dimension of the load arm	s/e/l (mm)	60 × 140 × 1100
4.24	Width of fork carriage	b3 (mm)	780
4.25	Fork spread	b5 (mm)	580
4.26	Internal width of load arm	b4 (mm)	160
4.31	Ground clearance, below mast	m1 (mm)	20/135 <sup>2)</sup>
4.32	Ground clearance, centre of wheelbase	m2 (mm)	20/135 <sup>2)</sup>
4.33	Load dimension b12 × l6	b12 × l6 (mm)	800 × 1200
4.34	Aisle width for load dimensions 2 × 800 × 1200	Ast (mm)	4220 <sup>6)7)</sup>
4.35	Turning radius	Wa (mm)	2487 <sup>6)</sup>
Performance			
5.1	Travel speed, with/without load	(km/h)	10/12
5.1.1	Travel speed, with/without load, backwards	(km/h)	8/10
5.2	Initial lifting speed (li), with/without load	(m/s)	0.06/0.08 <sup>6)</sup>
5.2	Main lifting speed (lp), with/without load	(m/s)	0.13/0.17 <sup>6)</sup>
5.3	Lowering speed, with/without load	(m/s)	0.08/0.08 <sup>6)</sup>
5.3	Lowering speed, with/without load	(m/s)	0.32/0.26 <sup>6)</sup>
5.8	Ramp maximum (0 kg, 1200 kg, 2000 kg), with/without load	(%)	12/20
5.9	Acceleration time, with/without load	(s)	6.2/5
5.10	Service brake	Electric / hydraulic	
Drive			
6.1	Drive motor rating S2 60 min	(kW)	3
6.2	Lift motor rating at 53 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)	306
6.6	Power consumption according to VDI cycle	(kWh/1 h)	0.412
6.6.1	CO2 equivalent emissions	(kg/h)	0.22
6.7	Turnover output according to VDI 2198	(t/h)	120
6.8	Turnover efficiency according to VDI 2198	(kWh/1 h)	1.44
Others			
8.1	Type of drive unit	LAC	
10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	< 85
	Level of vibration felt by the operator (EN 13059)	(m/s <sup>2</sup> )	0.7

1) Pallet truck capacity on the form arms, with initial lift option  
 2) Low/high position fork arm  
 3) Value with Simplex mast  
 4) With battery line 6.3 (+ 75 mm for 4 PzS)  
 5) Figures in ( ): Truck equipped with bogies option  
 6) Value for a mast 750E  
 7) Ast = Wa + R + a, Safety distance a = 200 mm

# MAST TABLE

## SIMPLEX MAST (in mm)

Lift	h3: 750	
Height measurements	h1: 1465 h3: 750 h5: 115	h2: 750 h4: 1465
Model		
N20 XL	○	

○ Optional equipment

h1: Height of mast, lowered  
 h4: Height of mast, extended

h2: Free lift  
 h5: Initial lift

h3: Lift

