



Linde Material Handling

Linde



Order picker

N20 C L

Capacity 1.2 t | Series 4590

Comfortable single pallet picking aid

- Liftable driver's platform for first and second level order picking
- Maximum speed of 12 km/h for fast load transport
- Automatic curve assistant for safe driving in curves
- Access from both sides for easy entry and exit
- Damped platform for reduced physical exertion

TECHNICAL DATA (According to VDI 2198)

Characteristics	1.1	Manufacturer		LINDE
	1.2	Model		N20 C L
	1.2a	Series		4590
	1.3	Drive		Electric
	1.4	Operator type		Stand-on
	1.5	Rated capacity / rated load	Q (t)	1.2
	1.6	Load centre distance	c (mm)	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	670
	1.9	Wheelbase	y (mm)	1823 ^{4) 5)}
Weight	2.1	Service weight (including battery)	(kg)	1308
	2.2	Axle loading, laden front / rear	(kg)	920 / 1588
	2.3	Axle loading, unladen front / rear	(kg)	875 / 433
Wheels and tyres	3.1	Tyres		Polyurethane
	3.2	Tyre size, front		254 × 102
	3.3	Tyre size, rear		85 × 60
	3.4	Additional wheels (dimensions)		150 × 50
	3.5	Wheels, number front / rear (x=driven wheels)		1x - 1/4
	3.6	Tread, front	b10 (mm)	474
	3.7	Tread, rear	b11 (mm)	(348) 388
Dimensions	4.2	Height, mast lowered	h1 (mm)	1375 ⁴⁾
	4.3	Free lift	h2 (mm)	-
	4.4	Lift	h3 (mm)	700
	4.5	Height, mast extended	h4 (mm)	2075 ⁴⁾
	4.6	Initial lift	h5 (mm)	-
	4.8	Stand height / Seat height (min / max)	h7 (mm)	130 ⁷⁾
	4.9	Height drawbar in driving position min. / max.	h14 (mm)	1258 ⁸⁾
	4.10	Height of wheel arms	h8 (mm)	-
	4.14	Stand height, elevated (with lifting platform)	h12 (mm)	1182 / 1197 ⁹⁾
	4.15	Forks height, lowered	h13 (mm)	86
	4.19	Overall length	l1 (mm)	2532 ^{4) 5)}
	4.20	Length to face of forks	l2 (mm)	1342 ^{4) 5)}
	4.21	Overall width	b1 (mm)	800
	4.22	Fork dimensions	s / e / l	55 / 172 / 1190
	4.24	Fork-carriage width	b3 (mm)	796 ⁴⁾
	4.25	Distance between fork-arms	b5 (mm)	(520) 560
	4.31	Ground clearance, laden, below mast	m1 (mm)	-
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	30
	4.34	Aisle width for for pallets 800 × 16 lengthways (fork raised)	Ast (mm)	2871 ^{4) 5)}
	4.34.1	Aisle width for pallets 1000 × 1200 crossways (fork raised)	Ast (mm)	-
4.34.2	Aisle width for pallets 800 × 1200 crossways (fork raised)	Ast (mm)	-	
4.35	Turning radius	Wa (mm)	2007 ^{4) 5)}	
Performance	5.1	Travel speed laden / unladen	(km/h)	9 / 12
	5.1.1	Travel speed laden / unladen, backwards	(km/h)	8 / 10
	5.2	Lift speed laden / unladen	(m/s)	0.135 / 0.218
	5.3	Lowering speed laden / unladen	(m/s)	0.130 / 0.122
	5.8	Max. gradeability laden / unladen	(%)	7.8 % / 15 % (6.2 %) ¹⁴⁾
	5.9	Acceleration time, laden / unladen	(s)	5.8 / 4.9
5.10	Service brake		Electromagnetic	
Drive	6.1	Drive motor, rating S2 = 60 min	(kW)	3
	6.2	Lift motor, rating at S3	(kW)	2.2 / 5 %
	6.3	Battery according to DIN 43531 / 35 / 36; A, B, C, no		no
	6.4	Battery voltage / nominal capacity K5	(V) / (Ah)	24 / 345 - 465
	6.5	Battery weight ± 5 %	(kg)	402
	6.6	Energy consumption according to DIN EN 16796	(kWh/h)	0.30
	6.6.2	CO2 equivalent emissions	(kg/h)	0.2
	6.7	Turnover output	(t/h)	81
6.8	Energy consumption at turnover output	(t/kWh)	45.0	
Others	8.1	Drive control		AC control
	10.7	Sound level at driver's ear	(dB(A))	< 70

2) With forks length 2390 mm / x = 1615 mm / pull bar version; for other forks dimension see table in Linde World

3) With load arms or forks raised

4) With lifting platform + 50 mm

5) With tray 4 PzS or Li-ION + 114 mm

7) With lifting platform option standard version + 15 mm; with lifting platform option damped version + 30 mm

8) With lifting platform option standard version + 72 mm; with lifting platform option damped version + 87 mm; with tiller adjustment option, h14 setting range = + 89 mm / - 19 mm

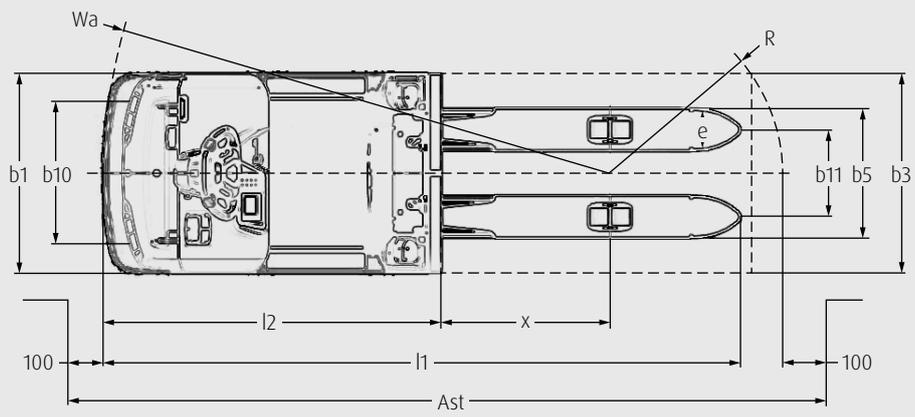
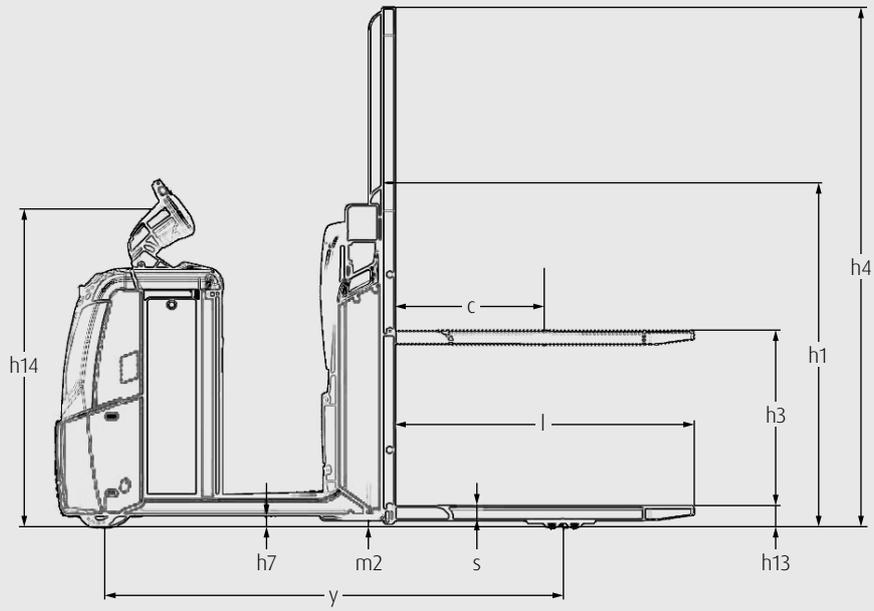
9) With lifting platform option standard / damped version

11) Faster truck version available as optional: 10 km/h laden (except for trucks with Li-ION battery) / 14 km/h unladen

12) Faster truck version available as optional: 14 km/h unladen

13) On rounded edge slope with forks / arms raised, if possible

14) For the geometric limit on unrounded edge slope, see table in Linde World





STANDARD AND OPTIONAL EQUIPMENT

	Model/Equipment	N20C LX
Safety	Front chassis protections	○
	Linde BlueSpot™	○
	Front LED stripes	○
	Flashing beacon	○
	Front panoramic mirror	○
	Automatic speed reduction in curves	●
	Rear feet protection	○
	Key switch	●
	Log PIN code	○
Service	CAN bus technology	●
Digitalisation	Linde connect	○
	ac: access control PIN	○
	ac: access control RFID	○
	Data transfer Wifi	○
	Data transfer Online	○
	dt: crash detection	○
	an: usage analysis	○
	Bluetooth USB Stick	○
dt: trouble codes	○	
Operation/ Load Handling	Inching control (forward only or forward/backward)	○
	Rear initial lift control	○
	Low Speed if initial lift low	○
	Initial lift electrical stop sensor	●
	Load backrest 1290 mm	●
Front picking shelf (capacity 25 kg) with the lifting platform	○	
Environment	Cold store -35 °C (in/out)	○
Workplace	Raising platform	○
	Platform with damping mat	●
	Air-damped platform	○
	Height adjustable Linde Steering Wheel	○
	Basic rounded display	●
	Multifunction colored display hourmeter, maintenance indication, battery discharge indicator and internal fault code indication	○
	Fixed roundly-shaped backrest equipped with handle	●
	Height adjustable backrest incl. foldable seating support	○
	Cushioned knee protection and foldable leg rest step	○
	Front accessory bar - Low/high	○
	Rear accessory bar - Low/high	○
	Support data terminal and power supply cable 24 V	○
	Support clipboard DIN A4	○
	Support for scanner and shrink wrap holder	○
Workstation with A4 clip integrated	●	
Dashboard with incorporated storage compartment	○	
Attachment/ Forks	Fork length of 2390 mm with 540 mm width	●
Axles and Tyres	Drive wheel polyurethane	●
	Drive wheel cushion rubber, non marking and wet grip	○
	Tandem load wheels polyurethane (greaseable)	●
	Single polyurethane castor wheels	●
	Tandem polyurethane castor wheels	○
Tandem polyurethane greaseable castor wheels	○	
Drive and Brake-System	Power assisted steering	●
	3 kW AC motor (maintenance free)	●
	Electromagnetic braking system	●
	Battery compartment, vertical change 3 PzS (345 Ah/465 Ah)	●
	Battery compartment, vertical change 4 PzS (560 Ah/620 Ah)	○
	Battery compartment, lateral change 3 PzS (345 Ah/375) and 4 PzS (500 Ah), incl. ergonomic lever and metal rollers	○
	Battery compartment, lateral change 3 and 4 PzS high incl. a simple battery un/locking system	○
	Battery compartment, Li-ION battery 4.5 kWh (205 Ah)/9.0 kWh (410 Ah) incl. side plug for opportunity charging	○
	Battery compartment, lateral change 3 PzS and 4 PzS for competitor batteries	○
Li-ION 24 V-Charger	○	

● Standard equipment

○ Optional equipment

CHARACTERISTICS



Robus chassis with rounded edges

Safety

- Robust chassis with rounded edges ensures maximum safety in the event of collisions
- Construction of mast and lifting cylinder minimizes the risk of injury
- Generous panoramic view ensures optimum view of forks and surroundings
- Automatic cornering assistant ensures safety in bends
- Driver platform functions completely as dead man's switch
- Emergency button provides additional safety



Inching control

Ergonomics

- Free lift enables ergonomic order picking at operator height
- Low access from both sides facilitates entering and leaving the vehicle
- Pedestrian function allows the vehicle to be controlled from the outside
- Height-adjustable Linde Steering Wheel and adjustable backrest ensure gentle and comfortable working
- Damped platform reduces physical strain



Intuitive Linde steering wheel with mast control

Handling

- Powerful 3 kW three-phase AC motor ensures top speeds of up to 12 km/h
- Automatic cornering assistant ensures safety in bends
- On-board charger ensures optimum charging of the battery
- Lithium-ion battery enables convenient intermediate charging of the vehicle
- Controls directly on the Linde Steering Wheel for intuitive operation
- Mast command integrated on both sides of the steering and the rear part



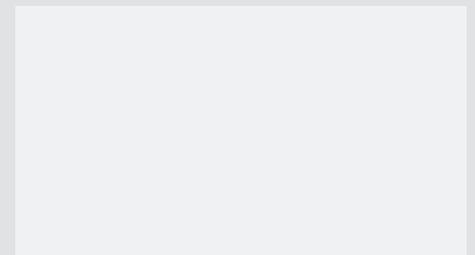
Free access to all components

Service

- Low-maintenance design ensures high truck availability
- Adjustment of the brakes is not necessary
- Service check only after 1000 operating hours
- Free access to all important truck components
- Clearly arranged cable harnesses for fast service
- CAN bus connection ensures simple service processes

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.

Presented by:



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