



## Order picker

# N20 C LX

Capacity 2.0 t | Series 4590

### Robust and ergonomic picking solution

- Scissor lift for back-friendly picking
- Load capacity up to 2000 kg for two pallets
- Liftable driver's platform for first and second level order picking
- Optimized design for free panoramic view
- Damped platform as protection against vibrations

# TECHNICAL DATA (According to VDI 2198)

|                  |        |                                                       |            |                                   |
|------------------|--------|-------------------------------------------------------|------------|-----------------------------------|
| Characteristics  | 1.1    | Manufacturer                                          |            | LINDE                             |
|                  | 1.2    | Model                                                 |            | N20 C LX                          |
|                  | 1.2a   | Series                                                |            | 4590                              |
|                  | 1.3    | Drive                                                 |            | Electric                          |
|                  | 1.4    | Operator type                                         |            | Stand-on                          |
|                  | 1.5    | Rated capacity / rated load                           | Q (t)      | 2.0                               |
|                  | 1.6    | Load centre distance                                  | c (mm)     | 1200                              |
|                  | 1.8    | Load distance                                         | x (mm)     | 1474 / 1310 <sup>3)</sup>         |
|                  | 1.9    | Wheelbase                                             | y (mm)     | 2661 / 2497 <sup>3) 4)</sup>      |
| Weight           | 2.1    | Service weight (including battery)                    | (kg)       | 1546                              |
|                  | 2.2    | Axle loading, laden front / rear                      | (kg)       | 1230 / 2316                       |
|                  | 2.3    | Axle loading, unladen front / rear                    | (kg)       | 1110 / 436                        |
| Wheels and tyres | 3.1    | Tyres                                                 |            | Polyurethane                      |
|                  | 3.2    | Tyre size, front                                      | (mm)       | 254 × 102                         |
|                  | 3.3    | Tyre size, rear                                       | (mm)       | 85 × 80                           |
|                  | 3.4    | Additional wheels (dimensions)                        | (mm)       | 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)   | 368                               |
| Dimensions       | 4.2    | Height, mast lowered                                  | h1 (mm)    | 1375 <sup>5)</sup>                |
|                  | 4.3    | Free lift                                             | h2 (mm)    | -                                 |
|                  | 4.4    | Lift                                                  | h3 (mm)    | 700                               |
|                  | 4.5    | Height, mast extended                                 | h4 (mm)    | 2075 <sup>5)</sup>                |
|                  | 4.6    | Initial lift                                          | h5 (mm)    | -                                 |
|                  | 4.8    | Stand height / Seat height (min / max)                | h7 (mm)    | 130                               |
|                  | 4.9    | Height drawbar in driving position min. / max.        | h14 (mm)   | 1258 <sup>6)</sup>                |
|                  | 4.10   | Height of wheel arms                                  | h8 (mm)    | -                                 |
|                  | 4.14   | Stand height, elevated (with lifting platform)        | h12 (mm)   | 1182 / 1197 <sup>9)</sup>         |
|                  | 4.15   | Forks height, lowered                                 | h13 (mm)   | 85                                |
|                  | 4.19   | Overall length                                        | l1 (mm)    | 3944 <sup>4)</sup>                |
|                  | 4.20   | Length to face of forks                               | l2 (mm)    | 1554 <sup>4)</sup>                |
|                  | 4.21   | Overall width                                         | b1 (mm)    | 822                               |
|                  | 4.22   | Fork dimensions                                       | s / e / l  | 75 / 172 / 2390                   |
|                  | 4.24   | Fork-carriage width                                   | b3 (mm)    | 792 <sup>7)</sup>                 |
|                  | 4.25   | Distance between fork-arms                            | b5 (mm)    | 540                               |
|                  | 4.31   | Ground clearance, laden, below mast                   | m1 (mm)    | 18 <sup>8)</sup>                  |
|                  | 4.32   | Ground clearance, centre of wheelbase                 | m2 (mm)    | 10 / 710 <sup>3)</sup>            |
|                  | 4.34   | Aisle width for pallets 800 x 16 lengthways           | Ast (mm)   | 4224 <sup>4) 5)</sup>             |
|                  | 4.34.1 | Aisle width for pallets 1000 x 1200 crossways         | Ast (mm)   | -                                 |
|                  | 4.34.2 | Aisle width for pallets 800 x 1200 lengthways         | Ast (mm)   | -                                 |
|                  | 4.35   | Turning radius                                        | Wa (mm)    | 3027 / 2863 <sup>3) 4)</sup>      |
| Performance      | 5.1    | Travel speed laden / unladen                          | (km / h)   | 9 / 12                            |
|                  | 5.1.1  | Travel speed laden / unladen, backwards               | (km / h)   | 8 / 11                            |
|                  | 5.1.2  | Travel speed, autonomous laden / unladen              | (km / h)   | 6                                 |
|                  | 5.2    | Lift speed laden / unladen                            | (m / s)    | 0.095 / 0.176                     |
|                  | 5.3    | Lowering speed laden / unladen                        | (m / s)    | 0.13 / 0.13                       |
|                  | 5.8    | Max. gradeability laden / unladen                     | (%)        | 7 % / 12 % (2.7 %) <sup>12)</sup> |
|                  | 5.9    | Acceleration time, laden / unladen                    | (s)        | 6.8 / 5.4                         |
|                  | 5.10   | Service brake                                         |            | Electromagnetic                   |
|                  | 6.1    | Drive motor, rating S2 = 60 min                       | (kW)       | 3                                 |
|                  | 6.2    | Lift motor, rating at S3                              | (kW)       | 2.2 / 5 %                         |
| Drive            | 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)  | 0.39                              |
|                  | 6.6.1  | CO <sup>2</sup> equivalent emissions                  | (kg / h)   | 0.2                               |
|                  | 6.7    | Turnover output                                       | (t / h)    | 102                               |
|                  | 6.8    | Turnover efficiency according to VDI 2198             | (t / kWh)  | 51.5                              |
|                  | 8.1    | Drive control                                         |            | AC control                        |
| Others           | 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 4Pz + 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

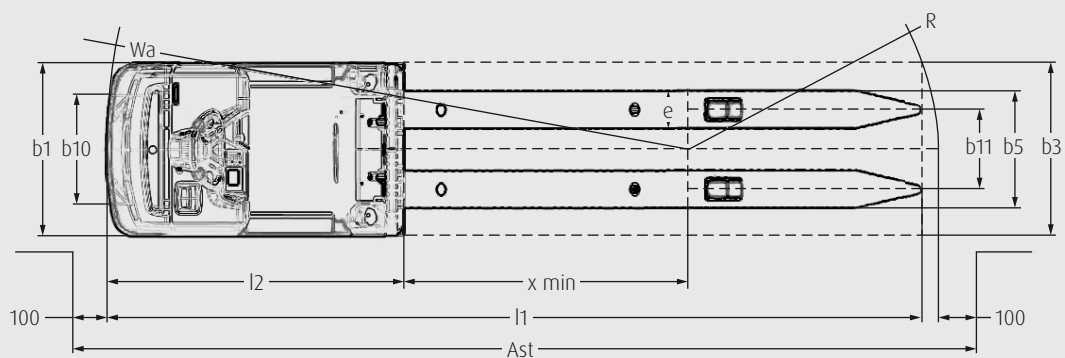
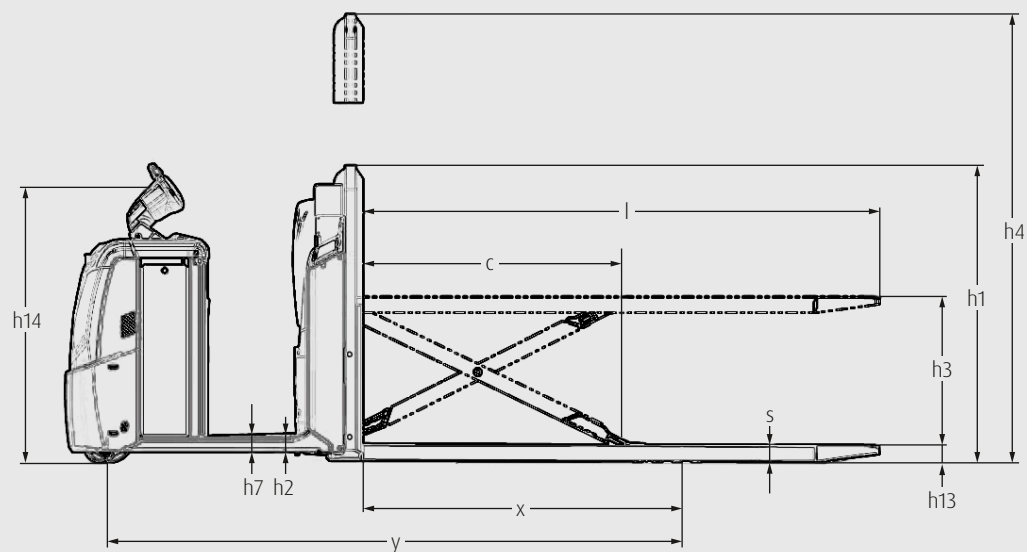
9) With lifting platform option standard / damped version

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) With fork length 2390 mm; for other fork dimensions, the geometric limit lies between 6.6% (fork length 3100 mm) and 10.7% (fork length 990 mm)

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



# MAST TABELLE

## STANDARD MAST (in mm)

|                     |          |         |          |
|---------------------|----------|---------|----------|
| Series              | 1500     |         |          |
| Lift                | h3: 700  |         |          |
| Height measurements | h1: 1375 | h3: 700 | h4: 2075 |
| Model               |          |         |          |
| N20 C LX            | ○        |         |          |

○ Optional equipment

**h1:** Height of mast, lowered

**h3:** Lift

**h4:** Height of mast, extended



# 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              | Data Transmission online                                                                                                                         | ○       |
|                             | Data Transmission Wifi                                                                                                                           | ○       |
|                             | Linde connect:desk - local fleet management with different functional modules                                                                    | ○       |
|                             | Linde connect:cloud - fleet management as a service (hosted version)                                                                             | ○       |
| Operation/<br>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                                                                                   | ○       |
| Enviro-<br>ment             | 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                                                                                                  | ○       |
| Attache-<br>ment/Forks      | Fork length of 2390 mm with 540 mm width                                                                                                         | ●       |
| Axles and Tyres             | Drive wheel Heavy duty                                                                                                                           | ●       |
|                             | Drive wheel High grip                                                                                                                            | ○       |
|                             | Tandem load wheels polyurethane (greaseable)                                                                                                     | ●       |
|                             | Single polyurethane castor wheels                                                                                                                | ●       |
|                             | Tandem polyurethane castor wheels                                                                                                                | ○       |
|                             | Tandem polyurethane greaseable castor wheels                                                                                                     | ○       |
| Drive and<br>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                                                    | ○       |
|                             | LI-ION technology available - different battery capacities depending of the model with laterally or vertically mounted opportunity charging plug | ○       |
|                             | Battery compartment, lateral change 3 PzS and 4 PzS for competitor batteries                                                                     | ○       |
|                             | Integrated charger for lead acid and LI-ION batteries                                                                                            | ○       |

● Standard equipment

○ Optional equipment

# CHARACTERISTICS



Rounded chassis with steel bumper

## Safety

- Automatic cornering assistant ensures safe driving in bends
- Low speed with lowered fork protects the environment
- Separate braking systems ensure safe braking to suit the operating conditions and load
- Innovative Linde Steering Wheel enables automatic track centering
- Rounded operator's platform provides additional safety



Scissor lift for back-friendly picking

## Ergonomics

- Spacious access from both sides facilitates access
- Low entry height minimizes physical strain
- Scissor lift enables back-friendly picking
- Spring-loaded platform dampens vibrations and shocks
- Non-slip rubber mat ensures safe standing of the driver
- Spacious storage compartments provide space for working materials



Intuitive Linde steering wheel

## Handling

- Powerful 3-kW three-phase AC motor ensures high top speeds of 12 km/h
- Impressive 2000 kg capacity on the scissors at 785 mm lift height
- Multifunction display provides information on the current vehicle status
- Controls directly on the Linde Steering Wheel for intuitive operation
- Mast command integrated on both sides of the steering and the rear part



CAN bus diagnosis

## 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 vehicle components
- CAN bus connection ensures simple service processes
- On-board charger ensures optimum charging of the battery
- Lithium-ion battery enables convenient intermediate charging of the vehicle

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.



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