Safety
The design of the order picker ensures that the operator remains within the truck contours at all time and the rounded shape of the cushioned backrest ensures his comfort. To ensure safety in operation, mast controls are located on both sides of the backrest to ensure that the operator has eyes on the forks at all time when using the lift commands. A pallet locking device ensures that the second pallet is safely stored vertically and can be used as a load support.

Performance
The Linde drive system employs a powerful 3 kW AC motor and a 2.2 kW lift motor enabling the N20 C LoL to carry 2000 kg at a top speed of 9 km/h, and ensures safe starting on gradients without rollback. Finally, the N20 C LoL ensures that two pallets can be consecutively prepared in one picking cycle only, one after the other.

Comfort
The height adjustable foldable seating support brings relief to the operator during long transfers. Moreover, the height adjustment of the Linde Steering Wheel guarantees that the operator can adjust the steering wheel to the most comfortable height position. The clever design of the N20 C LoL ensures that the operator does not have to bend down to place load on the pallet lifted on the forks. The easy-to-use pallet locking device facilitates releasing of the second empty pallet to continue the picking.

Reliability
The trucks are designed, built and tested for consistent reliability in demanding applications. The motor, sub-components and electronics are all protected within the robust chassis structure, which can be further reinforced by different front chassis protection options. These features guarantee a longer operating life, whilst delivering safe, efficient, and productive load handling.

Service
Efficiency at work and when servicing with cost effective maintenance routines are important. With service intervals of up to 1000 hours and a computerized diagnostic system via CAN-bus, maintenance interventions are minimal and operating costs are reduced. Easy accessibility to all components thanks to the front panel and the maintenance free AC technology play an additional part in maximizing uptime.
# TECHNICAL DATA

## ACCORDING TO VDI 2198

### Characteristics

<table>
<thead>
<tr>
<th>1.1</th>
<th>Manufacturer</th>
<th>LINDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td>Manufacturer's type designation</td>
<td>N20 C LoL</td>
</tr>
<tr>
<td>1.3</td>
<td>Drive</td>
<td>Electric</td>
</tr>
<tr>
<td>1.4</td>
<td>Operator type</td>
<td>Stand-on</td>
</tr>
<tr>
<td>1.5</td>
<td>Rated capacity/rated load</td>
<td>2.0 / 1.0 on main lift</td>
</tr>
<tr>
<td>1.6</td>
<td>Load centre distance</td>
<td>c (mm) 1248 / 600 on main lift 1)</td>
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<tr>
<td>1.8</td>
<td>Load distance, centre of drive axle to fork</td>
<td>x (mm) 1190 / 1782 2)</td>
</tr>
<tr>
<td>1.9</td>
<td>Wheelbase</td>
<td>y (mm) 1225 / 3097 3) 4)</td>
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<tr>
<td>2.1</td>
<td>Service weight (including battery) (kg)</td>
<td>1671</td>
</tr>
<tr>
<td>2.2</td>
<td>Axle loading, laden front / rear (kg)</td>
<td>1539 / 2028</td>
</tr>
<tr>
<td>2.3</td>
<td>Axle loading, unladen front / rear (kg)</td>
<td>1170 / 397</td>
</tr>
</tbody>
</table>

### Weight

| 3.1 | Tyre size, front | 254 x 102 |
| 3.2 | Tyre size, rear | 85 x 80 |
| 3.3 | Additional wheels (dimensions) | 150 x 50 |

### Wheels and Tyres

| 4.2 | Height, mast lowered (mm) | h1 (mm) |
| 4.3 | Lift (mm) | h2 (mm) |
| 4.4 | Initial lift (mm) | h3 (mm) |

### Dimensions

| 4.5 | Stand height / seat height (min / max) (mm) | h4 (mm) |
| 4.6 | Weight of wheel arms (kg) | 400 4) 5) |

### Performance

| 5.1 | Drive motor, rating S1 = 60 min (kW) | 3 |
| 5.2 | Lift motor, rating at S3 (kW) | 2.2 / 5 % |
| 5.3 | Battery voltage / nominal capacity K5 | 24 / 445 - 465 |
| 5.4 | Battery weight x 5 % | 402 |

### Drive

| 8.1 | Drive control | AC control |

### Others

| 10.7 | Sound level at driver's ear (dB(A)) | < 70 |

**Notes:**

1) with holder for vertical pallet 1365 / 765 mm
2) with load arms or forks raised
3) with lifting platform + 50 mm
4) with tray 4 PzS or Li-ION + 114 mm
5) with lifting platform option standard version + 15 mm; with lifting platform option damped version + 11 mm
6) with lifting platform option standard version + 72 mm; with lifting platform option damped version + 89 mm / - 19 mm
7) 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
8) in bracket: minimum geometric limit on rounded edge slope without or with foot guard (if different); due to manufacturing and assembly tolerances, it is recommended to foresee a decrease in the nominal values of not less than 1 %
9) with 1000 kg on mast and 1000 kg on initial lift at max initial lift height

10) with lifting platform option standard version + 72 mm, with lifting platform option damped version + 87 mm, with tiller adjustment option, H4 setting range = + 89 mm / - 19 mm
11) with lifting platform option standard / damped version
MAST TABLES

<table>
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<tr>
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<th>800S</th>
<th>1580S</th>
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<td>$h_1$</td>
<td>800</td>
<td>1580</td>
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<tr>
<td>$h_1' + h_{1c}$</td>
<td>891</td>
<td>1671</td>
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<tr>
<td>$H_1$</td>
<td>1276</td>
<td>1276</td>
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<tr>
<td>$h_4$</td>
<td>1676</td>
<td>2066</td>
</tr>
<tr>
<td>$h_2$</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>
| $h_3$          | 2220 | 2250  | (with lifting platform)
STANDARD EQUIPMENT / OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

- Chassis width 800 mm
- Rubber platform mat
- Anti-slip stripes
- Fixed cushioned and roundly shaped backrest equipped with handle
- Power assisted steering, adjustable steering resistance
- Polyurethane drive wheel
- Single polyurethane load wheel greaseable
- Tandem polyurethane caster wheels
- Workstation with A4 clip integrated
- Key switch or PIN code access
- Multifunction colored display incl. hour meter, maintenance indication, battery discharge indicator and internal fault code indication
- Mast controls integrated on backrest
- 3 kW AC drive motor (maintenance free)
- 2.2 kW (5 % rating output) lift motor
- CAN-bus technology
- Automatic speed reduction in curves
- Initial lift electrical stop sensor
- Mast lift pressure stop sensor
- Speed reduction depending on mast lift height and load
- Automatic breaking on releasing butterfly switch
- Electromagnetic emergency brake acting proportionally to the load weight
- Electric horn
- Initial lift of 130 mm
- Vertical battery change in 3 and 4 PzS
- Protection -10° C

OPTIONAL EQUIPMENT

- Drive wheels: cushion rubber, synthetic cushion rubber non marking, wet grip
- Load wheels: tandem polyurethane greaseable
- Castor wheels: tandem polyurethane and tandem polyurethane greaseable
- Raising platform
- Pneumatic damping of foot platform
- Cushioned knee protection and foldable leg rest step
- Height adjustable Linde Steering Wheel
- Height adjustable cushioned backrest with foldable seating support
- Dashboard with incorporated storage compartments
- Inching control (forward only or forward/backward) and initial lift
- Accessory supports
  - Support Clipboard DIN A4 and panoramic mirror
  - Support data terminal and power supply cable 24 V
  - Support for scanner and shrink wrap holder
- Electric socket 12 V or USB plug
- Other options available on request

Masts / Forks:
- Width over fork carriage 570 mm with fork length 1295 mm
- Load arms 2500 mm
- Standard masts with lift height of 800 mm or 1580 mm
- Speed reduction if forks lowered and soft landing on forks

Safety:
- Front chassis protections
- Load Backrest 1450 mm
- Pallet Locking device
- Linde BlueSpot™, Front LED-stripes, Flashing Beacon

Environment:
- Cold store protection - 35° C

Linde Connected Solutions:
- ac: access control (PIN or RFID Dual), an: usage analysis, di: crash detection, tr: trouble code and hr: operating hours
- Data transfer online and data transfer WiFi
- Bluetooth USB Stick

Battery:
- Lateral battery change 3 PzS / 4 PzS low available with an ergonomic battery un/locking with lever and rollers
- Lateral battery change 3 PzS / 4 PzS high available with a simple battery un/locking system
- Lateral battery change 3 PzS / 4 PzS for competitor batteries
- Built-in charger for lead acid batteries

Li-ION Technology:
- 4 PzS compartment with 4.5 kWh - 9 kWh (205 Ah - 410 Ah)

Li-ION Charger:
- 24 V-Charger v255: 4.5 kWh (full charging time 1 h 30 min) - 9.0 kWh (2 h 40 min)
FEATURES

Optimal load handling
→ 2000 kg total load capacity, to handle two EUR pallets of 1000 kg each
→ Up to 1000 kg on main lift
→ High performance 2.2 kW lift motor
→ Mast controls located on both sides of backrest
→ Four points contact configuration for maximum stability on ground
→ Traction speed of 9 km/h loaded and 12 km/h unloaded
→ Electromagnetic braking initiated by the emergency stop button acts on the drive motor, proportional

Easy manoeuvering
→ Intuitive Linde Steering Wheel, with all functions (horn, initial lift, traction butterflies) easily accessible without losing grip ensures one-hand operation
→ Ergonomic and safe driving position
→ Self centering steering for faster picking cycles

Workstation
→ Wide, easy access, from either side
→ Numerous storage compartments, maximized with optional dashboard for increased storage
→ Various optional accessories designed to streamline picking
→ Pedestrian command for traction and initial lift

Service Efficiency
→ Integrated CAN-bus diagnostic system for faster analysis and shorter service intervals
→ All truck parameters are configurable by service technician to suit each individual application
→ Rapid and convenient access to main components via front service panel
→ Electronic management of all components permitting quick and easy diagnosis

Efficient drive system
→ Powerful, high-torque and 3 kW AC drive motor
→ Moisture and dust-proof maintenance-free motor with up to 7 % gradeability performance fully loaded
→ Safe starting on gradients without rollback
→ Effortless proportional electric power steering with positive feedback
→ Automatic speed reduction when cornering

Productivity at the second level
→ Raising platform option to optimize occasional first and second level picking
→ Optional pneumatic damper for optimum comfort on platform
→ Wide access of 428 mm
→ OptiLift® systems ensures proportional lift and lowering of platform and quiet operation
→ Platform lifting command intuitively placed on Linde Steering Wheel for single-hand operation
→ Platform lowering with foot switch

Work in comfort
→ Wide platform access of 418 mm and low step in height of 130 mm
→ Damped mat or pneumatic damper for reduced vibration levels
→ Height adjustable Linde Steering Wheel
→ Cushioned, rounded-shape backrest, also available with height adjustment with foldable seating support

Energy for your activity
→ Vertical change as standard, optional side change
→ Wide range of batteries (low and high) from 345 Ah (3 PzS) to 620 Ah (4 PzS)
→ Battery compartments dedicated for competitor batteries
→ Ergonomic lever on low batteries

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.