ORDER PICKER
N20 LoL

CAPACITY 800 - 2000 KG | SERIES 132

Safety
Customized cutted forks for a safer pallet handling. Steel front shield and twin-grip hand guard provide additional protection. The front driving position affords optimum visibility for enhanced safety and efficiency.

Performance
Efficiency on the job is the truck’s true strength powered by a 3 kW AC motor, it rapidly accelerates to maximum speed (12 km/h unladen). Four-point surface contact ensures high stability and the OptiLift® control ensures high precision and productivity in order picking and pallet handling applications.

Comfort
Free lift enabling a picking at optimal height. A perfect interface between operator and truck is assured with the N20 LoL design concept. The unique Linde twin-grip steering control system with all operating controls grouped on the twin-grip head, combines with a cushioned platform and profiled scoop seat to provide the operator with a superbly comfortable working environment.

Reliability
Consistent reliability in demanding applications is assured with the Linde N series. Its sturdy mast and compact, robot welded chassis ensures maximum structural integrity and durability. The rugged structure and components provide a low centre of gravity for excellent stability.

Productivity
Efficiency at work, efficiency in servicing. With uptime ratios of up to 1000 hours between services and a computerised diagnostic system, maintenance intervals are minimal and operating costs are reduced. Easy accessibility of all components and the maintenance free AC technology employed play an additional part in maximising uptime.
## TECHNICAL DATA

**ACCORDING TO VDI 2198**

### Characteristics

1. **Manufacturer**
   - Linde

2. **Model designation**
   - N20 LoL
   - N20 LoL + pallet clip

3. **Power unit**
   - Battery

4. **Operation Preparation**
   - Preparation

5. **Load capacity (on load arms)**
   - Q (kg) 800 / 2000

6. **Axle centre to fork face**
   - (x mm) 525 / 775

### Weights

7. **Service weight (incl. battery item 6.5)**
   - (± 10 %) kg 1600

8. **Axle load with load, front / rear**
   - (± 10 %) kg 1529 / 1671

9. **Axle load without load, front / rear**
   - (± 10 %) kg 1120 / 480

### Wheels and tyres

10. **Tyres**
    - Rubber / Polyurethan

11. **Tyre size, front**
    - Ø x 1 mm 254 x 102

12. **Tyre size, rear**
    - Ø x 1 mm 2 x 85 x 60

13. **Auxiliary wheels (dimensions)**
    - Ø x 1 mm 100 x 40

14. **Wheels, number front / rear**
    - 1x + 1 / 2

### Dimensions

15. **Height of mast, lowered**
    - (± 5 mm) h1 (mm) 1315 / 1407

16. **Free lift**
    - (± 5 mm) h2 (mm) 750 / 750

17. **Lift**
    - (± 5 mm) h3 (mm) 750 / 750

18. **Height of mast, extended**
    - (± 5 mm) h4 (mm) 1398 / 1490

19. **Initial lift (± 5 mm)**
    - (± 5 mm) h5 (mm) 125 / 125

20. **Height of seat (mini / maxi)**
    - (± 5 mm) h7 (mm) 900 / 1000

21. **Height of tiller arm in operating position, min / max**
    - (± 5 mm) h14 (mm) 1140 / 1190

22. **Fork height, lowered (maxi)**
    - (± 5 mm) h13 (mm) 95 / 95

23. **Overall length (platform folded)**
    - (± 5 mm) l1 (mm) 3865 / 3965

24. **Length to fork face (platform low / high position)**
    - (± 5 mm) l2 (mm) 1504 / 1504

25. **Overall width (± 5 mm)**
    - (± 5 mm) b1 / b2 (mm) 790 / 790

26. **Fork dimensions**
    - (± 5 mm) b3 (mm) 780 / 780

27. **Fork spread, min / max**
    - (± 5 mm) b5 (mm) 575 / 575

28. **Load arms spread, min / max**
    - (± 5 mm) b4 (mm) 535 / 535

29. **Ground clearance, centre of wheelbase**
    - (± 5 mm) m2 (mm) 5 / 5

30. **Aisle width for pallets 1000 x 1200 along forks**
    - (± 20 mm) A (mm) 4278 / 4378

31. **Aisle width for pallets 800 x 1200 along forks**
    - (± 20 mm) A (mm) 4220 / 4320

32. **Turning radius**
    - (± 5 %) W (m) 3277 / 3377

### Performance

33. **Travel speed (forward), with / without load**
    - (± 5 %) v (m/h) 10 / 10

34. **Lifting speed, with / without load**
    - (± 10 %) v (m/h) 0.11 / 0.2

35. **Lowering speed, with / without load**
    - (± 10 %) v (m/h) 0.06 / 0.08

36. **Climbing ability, with / without load (10 minutes rating)**
    - (± 5 %) %

37. **Maximum climbing ability, with / without load (5 minutes rating)**
    - (± 5 %) %

### Drive Unit

38. **Drive motor, rating S 2 60 min**
    - kW 3

39. **Lift motor, rating at S 3: 15 %**
    - kW 1.7

40. **Battery voltage / nominal capacity**
    - V / Ah 24 / 375

41. **Battery weight**
    - (± 10 %) kg 295 / 312

42. **Battery consumption according to VDI cycle**
    - (± 5 %) kWh / h 0.97 / 0.97

43. **Drive control (AC Controller)**
    - Type of drive control 3 PZS SL

### Others

44. **Type of drive control (AC Controller)**
    - Drive control 3 PZS SL
<table>
<thead>
<tr>
<th>STANDARD EQUIPMENT</th>
<th>OPTIONAL EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlit multifunction display</td>
<td>Various fork lengths, from 2350 mm to 2500 mm (width 535 mm; overhang 588 mm)</td>
</tr>
<tr>
<td>Truck activated by unique pin or by ignition key</td>
<td>Various Simplex mast from 750 mm to 1612 mm lift height</td>
</tr>
<tr>
<td>Safe operator compartment with cushioned full-suspension platform</td>
<td>Load backrest</td>
</tr>
<tr>
<td>Workstation incorporating storage compartments</td>
<td>Pallet locking system</td>
</tr>
<tr>
<td>Clipboard</td>
<td>Adjustable Linde control handlebars</td>
</tr>
<tr>
<td>Adjustable backrest</td>
<td>Inching buttons forward/backward</td>
</tr>
<tr>
<td>Power-assisted steering, with a proportional steering resistance</td>
<td>Feet protection</td>
</tr>
<tr>
<td>Self-centering</td>
<td>Front bow (for computer terminal)</td>
</tr>
<tr>
<td>Positive steering (drive wheel) feedback</td>
<td>Support for data terminal on the bow (front)</td>
</tr>
<tr>
<td>Automatic speed reduction when cornering</td>
<td>Drive wheel: polyurethane, cushion non-marking or wet grip</td>
</tr>
<tr>
<td>Linde OptiLift® Control</td>
<td>Soft landing of forks carriage</td>
</tr>
<tr>
<td>Handlebars</td>
<td>Stop landing at 300 mm</td>
</tr>
<tr>
<td>Tandem polyurethane load wheels</td>
<td>Cold store protection -35°C (in/out)</td>
</tr>
<tr>
<td>Mast safety screen (polycarbonate or mesh)</td>
<td>Speed reduction when the forks are lowered</td>
</tr>
<tr>
<td>Electric horn</td>
<td>Initial lift 125 mm with load leg capacity 2000 kg</td>
</tr>
<tr>
<td>Protection -10°C</td>
<td>Other options available on request</td>
</tr>
</tbody>
</table>
| 4 wheels contact points | **Linde Connected Solutions:**  
<p>| Roller track chassis for side battery change | ac: access control (PIN or RFID Dual) |
| | an: usage analysis and dt: crash detection |
| | Data transfer Online |
| | Data transfer WIFI |
| | Bluetooth USB Stick |
| <strong>Li-ION technology:</strong> |<br />
| 4PzSL compartment: 4.5 kWh - 9 kWh (205 Ah - 410 Ah) |<br />
| <strong>Li-ION charger:</strong> |<br />
| 24V-Charger v255: 4.5 kWh (full charging time 1h 30min) - 9.0 kWh (2h 40min) |</p>
<table>
<thead>
<tr>
<th>Mast type</th>
<th>750E</th>
<th>912E</th>
<th>1062E</th>
<th>1612E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift</td>
<td>750</td>
<td>912</td>
<td>1062</td>
<td>1612</td>
</tr>
<tr>
<td>Lift + fork height</td>
<td>840</td>
<td>1000</td>
<td>1158</td>
<td>1308</td>
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<tr>
<td>Height mast lowered</td>
<td>1320</td>
<td>1465</td>
<td>1582</td>
<td>2065</td>
</tr>
<tr>
<td>Height mast extended</td>
<td>1398</td>
<td>1465</td>
<td>1582</td>
<td>2132</td>
</tr>
<tr>
<td>Free lift</td>
<td>750</td>
<td>912</td>
<td>979</td>
<td>1145</td>
</tr>
</tbody>
</table>
FEATURES

Driving system
→ Four-point contact configuration for maximum stability
→ Maximum speed 10 km/h laden, 12 km/h unladen
→ Automatic regenerative braking as traction butterfly is released
→ Responsive counter-current braking when opposite travel direction selected
→ Electromagnetic braking on drive motor, actuated by deadman switch or emergency isolator is proportional to the load carried

Twin-grip handlebar
→ Superbly functional twin-grip steering controller
→ All controls ergonomically grouped on twin grip controller for convenient use by either hand
→ Optimum protection for both hands
→ Twin-grip design minimizes operator’s arm movements when turning

Load arms
→ Forklenght dimension of 2350 mm enables to carry two Euro pallets lengthwise
→ Initial lift of 125 mm for a better traction and enabling pallets carriage
→ Special chassis design for maximum gradeability

Recovered forks
→ Cutted forks tips for an easier pallet handling
→ Forklenght dimension of 1200 mm enables to carry one Euro pallet lengthwise
→ Freelift enables to pick at operator’s height

OptiLift®
→ Located behind scoop seat
→ The 60° OptiLift® control brings smoothness and precision and quiet in operation
→ High performance, energy efficient, compact lift unit
→ Capacity of 800 kg on free lift and 2 x 1000 kg on initial lift

AC motor
→ Powerful, high-torque 3 kW AC Drive motor
→ Moisture and dust-proof maintenance-free motor 12% gradeability performance fully laden
→ Safe starting on gradients without rollback
→ Responsive acceleration to maximum speed within 5 meters
→ Acceleration is adjustable to suit application

Pallet locking system
→ Ergonomic system to lock / unlock the empty pallet for the next picking
→ Two side handle and one central to lock the pallet according operator’s position
→ Side unlocking system for more efficiency

Load arms
→ Forklenght dimension of 2350 mm enables to carry two Euro pallets lengthwise
→ Initial lift of 125 mm for a better traction and enabling pallets carriage
→ Special chassis design for maximum gradeability

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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