Standard Equipment

General
- Four wheel configuration
- Platform length 2,600 mm
- Tractor without cab
- Soft grip hand and hard steering position
- Low effort and light steering position
- Programmable steering parameters
- Adjustable steering column
- Comprehensive integrated lighting
- Single pedal accelerator and direction lever
- Full suspension PVC driven seat
- Non-suspension PVC passenger seat
- Hydraulic power steering

Optional Equipment
- Electronics
  - 88% C-rate/highly efficient energy saving system
  - 2 x 2.5 kW maintenance free AC Drive motor
  - Advanced Linde AC digital controller
- Batteries and chargers
  - BPV 210 to 320 Ah DC to AC
  - Easy battery change
- Cab features
  - Windshield wiper and washer
  - A range of covers are available to suit applications

Safety
- Emergency switch
- Automatic single position, rear cornering
- Traction instability, lockout and air parking brake
- Electrical overload protection
- Comprehensive warning lights
- Electric horn

Performance
- The high duty chassis and cab module provide assured protection for the operator while three independent braking systems deliver responsive stopping power for all situations including automatic speed control descending gradients.
- A focus on operator comfort and safety.

Reliability
- Designed for intensive heavy duty applications in rugged conditions where the operator and cab module provide assured protection for the operator while three independent braking systems deliver responsive stopping power for all situations including automatic speed control descending gradients.
- A focus on operator comfort and safety.

Service
- Two powerful, high torque 2.5 kW AC drive motors provide impressive pulling and carrying power for a variety of applications.
- The energy saving Linde AC digital controller combined with a fully adjustable suspension seat provides a comfortable and fatigue-free working environment.
- Cab suspension dampers and a spring suspension system front and rear ensures superior levels of driving comfort.

Customer Support
- Linear Material Handling GmbH
- Phone: +49 6021 99-0, Fax: +49 6021 99-1570, www.linde-mh.com, info@linde-mh.com

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Ziegeleistraße 40
D-63701 Aschaffenburg
Germany

Phone: +49 6021 99-0, Fax: +49 6021 99-1570, www.linde-mh.com, info@linde-mh.com

Overall dimensions: 1683.8x841.9

Features
- 88% C-rate/highly efficient energy saving system
- 2 x 2.5 kW maintenance free AC Drive motor
- Advanced Linde AC digital controller
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Standard Equipment/Optional Equipment

Optional Equipment
- Platform length 2,600 mm
- Cab with front and rear screens, mirrors and windows and, two exterior mirrors
  - - with side mirrors
  - - with foldable side mirrors
  - - Hinged doors
- Optional side panels and rigid covers
- Electrical or direct heater
- Full suspension I.T.V (180) drive motor
- Only with 320 Ah batteries
- Reversing warning beacons
- Contoured rubber (suspension) tyers

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Performance
- The dual capability carrying 2 tonne on the platform and leaning normal loads of 4 tonne, the W 20 offers flexible high performance which is optimised by the Linde AC digital control system that provides precise, energy saving control of acceleration and speed for high productivity.

Comfort
- A low centre of gravity ensures outstanding stability.
- The heavy duty chassis and cab module provide assured protection for the operator while three independent braking systems deliver responsive stopping power for all situations including automatic speed control descending gradients.
- A focus on operator comfort and safety.

Robust structure.
- Robot-welded chassis is constructed from heavy section steel plate for optimum torsional stiffness and rounded corners for maximum torsional resistance and rigidity.

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### Technical Data according to VDI 2198

**Characteristics**

1. **Manufacturer**
   - LINDE

2. **Model designation**
   - W20 (2200)
   - W20 (2600)

3. **Power unit**
   - Battery

4. **Operation**
   - Seat

5. **Load capacity (Q (t))**
   - 2.0
   - 1)

6. **Rated tractive force (F (N))**
   - 500 / 900 - 800 / 1200
   - 2)

7. **Wheelbase (y (mm))**
   - 1900

8. **Service weight (kg)**
   - 3100

9. **Axle load with load, front/rear (kg)**
   - 2300 / 2800

10. **Axle load without load, front/rear (kg)**
    - 1800 / 1300

11. **Tyre size, front**
    - 6.00 R9

12. **Tyre size, rear**
    - 7.00 R12

13. **Wheels, number front/rear (x = driven)**
    - 2 / 2x

14. **Height of overhead guard (cabin) (h6 (mm))**
    - 1820

15. **Height of seat/stand-on platform (h7 (mm))**
    - 745

16. **Towing coupling height (h10 (mm))**
    - 240, 295, 350, 405

17. **Platform height, unladen (h11 (mm))**
    - 840

18. **Loading platform, length (l3 (mm))**
    - 2200

19. **Rear overhang (l5 (mm))**
    - 730

20. **Loading platform, width (b9 (mm))**
    - 1300

21. **Overall length (l1 (mm))**
    - 3530

22. **Overall width (b1/b2 (mm))**
    - 1300

23. **Ground clearance, centre of wheelbase (m2 (mm))**
    - 150

24. **Turning radius (Wa (mm))**
    - 3280

25. **Minimum pivoting point distance (b13 (mm))**
    - 1095

26. **Travel speed, with/without load (km/h)**
    - 15 / 20 - 20 / 25

27. **Tractive force, with/without load (N)**
    - 500 / 900 - 800 / 1200

28. **Maximum tractive force, with/without load (N)**
    - 5600 / 6000 - 9600 / 10000

29. **Climbing ability, with/without load (%)**
    - see performance graph

30. **Service brake**
    - Electric/hydraulic

31. **Drive motor, 60 minute rating (kW)**
    - 2x 2.5 - 2x 10

32. **Battery according to DIN 43531/35/36 A,B,C, no 43536 / A**

33. **Battery voltage/rated capacity (5h) (V/Ah)**
    - 80 / 320

34. **Battery weight (± 5%) (kg)**
    - 858

35. **Power consumption according to VDI cycle (kWh/h)**
    - upon request

**Others**

36. **Type of drive control**
    - AC - microprocessor

37. **Noise level at operator’s ear (dB(A))**
    - upon request

38. **Towing coupling, design/type, DIN 15170**
    - upon request

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**Comment on diagram**

- Load/gradient combinations by full line can be raised from stationary via the gradient. The permissible load per hour is the total distance travelled, including the uphill portion and any downhill gradient. It is recommended.
- Braked trailers are used for trailer loads exceeding 9 tons and for all trailer loads where a gradient is involved.

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**Dimensions**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Value 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height of overhead guard (cabin)</td>
<td>1820</td>
<td></td>
<td></td>
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<td>C</td>
<td>a = speed (km/h)</td>
<td>b = gradient</td>
<td>c = combined weight (trailed plus carried)</td>
</tr>
<tr>
<td>D</td>
<td>P (N) drawbar pull</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>l = P (N) drawbar pull</td>
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Notes:
- Based on level, dry surface with rolling resistance of 200 N/t.
- Refer to towing.
- High torque 2x10kW motor is available in conjunction with 320Ah battery only!