Equipment

Standard equipment

General
Four wheel configuration
Premature types
Tractor without cab
Left or right hand drive steering position
Adjustable steering column
Comprehensive integrated display
Single pedal accelerator and direction lever
Full suspension PVE driver’s seat
Non-pneumatic (PVC) passenger seat
Hydroelectric power steering
Front and rear screen washers/weepers (with optional cab versions)

Two sided mirrors
Interior mirror

Interior light

Option to reverse decision

Reverse warning beeper
Flashing or rotating beacon on cab
Rear lights mounted high at rear of cab

Cab with flexible roll up sides

Optional equipment

Cab with flexible roll up sides
Cab without sides
Cab with sliding or hinged doors
Door lights mounted high at rear of cab
Flashing or rotating beacons on cab

Reverse warning beacons
Continued solid (unsuspended) types

Heated seat
Full suspension passengers seat
Alternation colour schemes

Electronics
80 V control
3 x 100 maintenance free AC drive motors
Advanced Linde AC digital controller

Battery and chargers
P 250 1500 – 80 V, 600 to 540 Ah to IEC
P 250 UNI – 80 V, 600 to 840 Ah to IEC

Charging
A range of chargers is available to suit application and main supply requirements

Safety
Three independent braking systems
Hydraulic disc brakes (front) external disc brakes (rear)

Regenerative electronic braking an accelerator pedal in releases

Superglue with anti-slip control

Remote control to power steering during cornering

High-torque flexibility and performance
Standard colour scheme – vermilion and charcoal grey

Performance

Reliability

Designs for intense heavy duty applications the rugged, robot-welded chassis is constructed from heavy section steel plate for optimum torsional stiffness and required correct for high resistance to impacts. All safety components are protected under the chassis while electrical components are housed in sealed aluminium enclosures for assured reliability and long life.

Productivity

Post-processed, high torque 10 kW AC drive motors provide impressive pulling power for a variety of interior applications. The energy saving Linde AC digital controller combined with excellent manoeuvrability and an internet interface between the operator and tractor, translates that power into versatile, seamless performance and high productivity.

Features

Linde Material Handling

Operator’s Component

Regenerative electronic braking as accelerator pedal in releases

Superglue with anti-slip control

Remote control to power steering during cornering

High-torque flexibility and performance

Advanced Linde AC digital controller

2 x 10 kW maintenance free AC drive motors

80 V circuit

CAN bus diagnostic facility for planning

Easy access for maintenance

Serviceability

Integrated rear view camera

Freedom from rear view mirrors

Electrical instrument display

Seamless performance and high productivity

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Features
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<tr>
<td>Operation</td>
<td>Seated</td>
<td>Seated</td>
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<tr>
<td>Towed load capacity Q (t)</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Rated drawbar pull F (N)</td>
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<td>5000</td>
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<td>Wheelbase y (mm)</td>
<td>1465</td>
<td>1900</td>
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<tr>
<td>Service weight kg</td>
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<td>4800</td>
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<tr>
<td>Axle load with load, front/rear kg</td>
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<td>2600/2500</td>
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<tr>
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<td>2400/2400</td>
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<td>Tyre size, front</td>
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<td>6.00 R9</td>
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<tr>
<td>Tyre size, rear</td>
<td>7.00 R12</td>
<td>7.00 R12</td>
</tr>
<tr>
<td>Track width, front/rear (mm)</td>
<td>1080</td>
<td>1080</td>
</tr>
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<td>Height of overhead guard (cabin) (mm)</td>
<td>1820</td>
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</tr>
<tr>
<td>Height of seat/stand-on platform (mm)</td>
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<td>1000</td>
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<td>1955</td>
</tr>
<tr>
<td>Rear overhang (mm)</td>
<td>615</td>
<td>615</td>
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<tr>
<td>Loading platform, width (mm)</td>
<td>1170 (1120 at rear)</td>
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<tr>
<td>Overall length (mm)</td>
<td>3045</td>
<td>3480</td>
</tr>
<tr>
<td>Overall width (mm)</td>
<td>1300</td>
<td>1300</td>
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<tr>
<td>Ground clearance, centre of wheelbase (mm)</td>
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<tr>
<td>Turning radius (mm)</td>
<td>2830</td>
<td>3280</td>
</tr>
<tr>
<td>Minimum pivoting point distance (mm)</td>
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<td>1095</td>
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<td>Travel speed, with/without rated drawbar pull (km/h)</td>
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<td>Drawbar pull at 60 minute rating (N)</td>
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<tr>
<td>Maximum drawbar pull (on level ground) (N)</td>
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<tr>
<td>Climbing ability with/without load %</td>
<td>See graph</td>
<td>See graph</td>
</tr>
<tr>
<td>Service brake</td>
<td>Hydraulic/electric</td>
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<td>Drive motor, 60 minute rating (kW)</td>
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<td>2x10</td>
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<td>Battery voltage rated capacity (V)</td>
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<td>Battery weight (± 0,5 %) kg</td>
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<td>Type of drive control</td>
<td>AC-microprocessor</td>
<td>AC-microprocessor</td>
</tr>
<tr>
<td>Noise level at operator's ear (dB)</td>
<td>3)</td>
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</tr>
</tbody>
</table>

1) Based on level, dry surface with rolling resistance of 200 N/t.
2) Contoured solid (superelastic) tyres are available.
3) Refer to manufacturer for figures.

---

*Load/gradient combinations shown by full line can be restarted from stationary on the gradient.*

The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients.

It is recommended that braked trailers are used for trailer loads exceeding 2.5 tonne and for all trailer loads where a gradient is involved.
Safety
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 fine control of gravity ensures outstanding stability.

Performance
With a nominal towing capacity of 25 t a low and wide traction speed of 25 km/h the P 250 offers flexible high performance which is optimised by the Linde digital AC control system that provides precise, energy saving control of acceleration and speed for high productivity. The curved front screen and profiled chassis ensures excellent levels of driving comfort.

Reliability
Designed for intensive heavy duty applications the rugged, robot-welded chassis is constructed from heavy section steel plate for optimum durability and ruggedness in high resistance to impacts. All key components are protected within the chassis while electronic components are located in sealed aluminium enclosures for assured reliability and long life.

Productivity
Powerful, high torque 10 kW AC drive motors provide impressive pulling power for a variety of industrial applications. The energy saving Linde AC digital controller combined with excellent manoeuvrability and an intuitive interface between the operator and tractor, translates that power into versatile, seamless performance and high productivity.
### Technical data (according to VDI 2198)

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<tr>
<th>Characteristic</th>
<th>Weight</th>
<th>Wheels and Tyres</th>
<th>Dimensions</th>
<th>Performance</th>
<th>Drive</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1 Manufacturer</td>
<td>LINDE</td>
<td></td>
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<td>1.2 Model designation</td>
<td>P 250 (SWB) P 250 (LWB)</td>
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<tr>
<td>1.3 Power unit: battery, diesel, petrol, LP gas, mains power</td>
<td>Battery, Battery</td>
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<td>1.4 Operation: manual, pedestrian, stand-on, seated, order picker</td>
<td>Seated, Seated</td>
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<td>1.5 Towed load capacity Q (t)</td>
<td>25 1) 25 1)</td>
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<td>1.6 Rated drawbar pull F (N)</td>
<td>5000 1) 5000 1)</td>
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<tr>
<td>1.7 Wheelbase y (mm)</td>
<td>1465 1900</td>
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<td>2.2 Axle load with load, front/rear kg</td>
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<td>2.3 Axle load without load, front/rear kg</td>
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<td>3.1 Tyres, front/rear (SE = CS superelastic, P = pneumatic)</td>
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<td>3.2 Tyre size, front</td>
<td>6.00 R9 6.00 R9</td>
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<tr>
<td>3.3 Tyre size, rear</td>
<td>7.00 R12 7.00 R12</td>
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<tr>
<td>3.5 Wheels, number front/rear (x = driven)</td>
<td>2/2x 2/2x</td>
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<tr>
<td>3.6 Track width, front b10 (mm)</td>
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<tr>
<td>3.7 Track width, rear b11 (mm)</td>
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<tr>
<td>4.7 Height of overhead guard (cabin) h6 (mm)</td>
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<td>4.8 Height of seat/stand-on platform h7 (mm)</td>
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<td>4.12 Towing coupling height h10 (mm)</td>
<td>240, 295, 350, 405 240, 295, 350, 405</td>
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<td>4.13 Platform height, without load h11 (mm)</td>
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<td>4.16 Loading platform, length l3 (mm)</td>
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<td>4.17 Rear overhang l5 (mm)</td>
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<td>4.18 Loading platform, width b9 (mm)</td>
<td>1170 (1120 at rear) 1170 (1120 at rear)</td>
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<td>4.19 Overall length l1 (mm)</td>
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<td>4.21 Overall width b1 (mm)</td>
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<td>4.32 Ground clearance, centre of wheelbase m2 (mm)</td>
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<td>4.35 Turning radius Wa (mm)</td>
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<td>4.36 Minimum pivoting point distance b13 (mm)</td>
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<td>Loading platform width b9 (mm)</td>
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<td></td>
</tr>
<tr>
<td>Overall width b1 (mm)</td>
<td>1300</td>
<td>1300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground clearance, centre of wheelbase m2 (mm)</td>
<td>150</td>
<td>150</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turning radius Wa (mm)</td>
<td>2830</td>
<td>3280</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum pivoting point distance b13 (mm)</td>
<td>935</td>
<td>1095</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel speed, with/without rated drawbar pull km/h</td>
<td>11/25</td>
<td>11/25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drawbar pull at 60 minute rating N</td>
<td>5000</td>
<td>5000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum drawbar pull (on level ground) N</td>
<td>16000</td>
<td>16000</td>
<td>1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climbing ability with/without load, 30 minute rating %</td>
<td>See graph</td>
<td>See graph</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum climbing ability, with/without load, 5 minute rating %</td>
<td>See graph</td>
<td>See graph</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service brake</td>
<td>Hydraulic/electric</td>
<td>Hydraulic/electric</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive motor, 60 minute rating kW</td>
<td>2x10</td>
<td>2x10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery according to DIN 43531/35/36 A, B, C, no DIN 43536A</td>
<td>DIN 43536A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery voltage/rated capacity (5h) V/Ah</td>
<td>80/560</td>
<td>80/840</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery weight (± 0.5 %) kg</td>
<td>1558</td>
<td>2178</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption according to VDI cycle kWh/h</td>
<td>3)</td>
<td>3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of drive control</td>
<td>AC-microprocessor</td>
<td>AC-microprocessor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise level at operator's ear dB (A)</td>
<td>3)</td>
<td>3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Based on level, dry surface with rolling resistance of 200 N/t.
2) Contoured solid (superelastic) tyres are available.
3) Refer to manufacturer for figures.

*Load/gradient combinations shown by full line can be restarted from stationary on the gradient.*

The permissible haul per hour is the total distance travelled, including the return journey and any downhill gradients.

It is recommended that braked trailers are used for trailer loads exceeding 2.5 tonnes and for all trailer loads where a gradient is involved.
Equipment

Standard equipment

General

Free wheel configuration

Proprietary types

Tractor without cab

Left or right hand drive steering position

Adjustable steering column

Comprehensive integrated display

Single pedal accelerator and direction lever

High-torque flexibility and performance

Reduced power to inner wheel during cornering

Superb traction with anti-slip control

Integrated in drive axle with no differential required

Dual circuit hydraulic disc brakes on all four wheels

Trailer lighting socket

Automatic single position, rear towing coupling

Interior light

Two exterior mirrors

Front and rear screen wipers/washers (with optional cab variants)

Non-suspension PVC passenger seat

Full suspension PVC driver’s seat

Single pedal accelerator and direction lever

High-torque flexibility and performance

Reduced power to inner wheel during cornering

Superb traction with anti-slip control

Integrated in drive axle with no differential required

Dual circuit hydraulic disc brakes on all four wheels

Trailer lighting socket

Automatic single position, remote, rear towing coupling

High-torque flexibility and performance

Standard equipment

Excellent all-round visibility

Full road lighting

Electric horn

Comprehensive warning lights

Electrical overload protection

Traction isolated by seatswitch and/or parking brake

Emergency circuit isolator

Keyswitch

Electric push-button parking brake

Regenerative electric braking as accelerator pedal is released

Hydraulic disc brakes (front) external disc brakes (rear)

Three independent braking systems

A range of chargers is available to suit application and

Easy vertical lift out battery change

P 250 LWB – 80 V, 600 to 840 Ah to IEC

P 250 SWB – 80 V, 400 to 560 Ah to IEC

80 V circuit

Alternative colour schemes

Full suspension passenger seat

Heated seats

Electric or diesel heater and demister

Operator’s compartment

– Automatic rear towing coupling

– Automatic single position, front and/or rear towing coupling

– Automatic rear towing coupling

– Automatic single position, remote, rear

– Automatic single position, front and/or rear

– Automatic rear towing coupling

– Automatic single position, remote, rear

Ergonomics

Easy vertical lift out battery change

P 250 SERIES 127-02

Capacity 25000 kg

Electric Tow Tractor

Linde Material Handling


3

Multi-function instrument display

3

Fully adjustable comfort-class operator’s seat

3

Low step access to spacious cabin

3

Operator’s compartment

3

Large lock-to-lock angle

3

Adjustable steering column

3

Shallower and easier access for maintenance

3

Easy access for maintenance

3

Hydrostatic power steering

3

Effortless manoeuvrability

3

Sealed aluminium enclosures for assured reliability and long life.

3

Enclosed power steering

3

Elegant acoustics

3

Easy access for maintenance and battery

3

Cell phone diagnostic link for reduced service intervals

3

Ergonomics

Integrated in drive axle with no differential required

3

Reduced power to inner wheel during cornering

3

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