



Pallet Stackers

D12 – D14 SP | D12 HP SP/AP

Capacity 1.2 t – 1.4 t | Series 1161

Agile double transporter

- Simultaneous pick-up of two pallets for speedy loading and unloading, efficient goods transport and order picking
- Solid steel skirt around the standing platform to protect the operator in the event of collision (SP version)
- Unique platform concept with standing position at 45° angle and Linde e-driver control for better all-round vision and an ergonomic body posture (SP version)
- Foldable vehicle platform for flexible use in pedestrian and driving mode (AP version)
- High-performance version (HP version) with greater travel and lifting speed for maximum handling performance

D12 HP AP
with side guards



D12 SP
with initial lift



D12 HP SP
with forks up



STANDARD AND OPTIONAL EQUIPMENT

| Manufacturer's type designation/equipment | | D12 HP SP | D12 HP AP | D12 SP | D14 SP |
|---|---|-----------|-----------|--------|--------|
| Safety | Automatic speed reduction when cornering | ● | ● | ● | ● |
| | Key switch | ● | ● | ● | ● |
| | Log in PIN code | ○ | ○ | ○ | ○ |
| | Folding sideguards and platform | – | ● | – | – |
| | Unique, safe and intuitive 45° operating position | ● | – | ● | ● |
| | Linde BlueSpot – visual warning of truck presence integrated in the chassis contours | ○ | – | ○ | ○ |
| | Linde BlueSpot – visual warning of truck presence mounted on accessory support | – | ○ | – | – |
| | Foot detection sensor – trucks slows down or stops if operator's foot is detected outside of the platform contours | ○ | – | ○ | ○ |
| 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) | ○ | ○ | ○ | ○ |
| | Linde Pre-Op Check App – personalised daily check protocol for operational readiness | ○ | ○ | ○ | ○ |
| Operation/load handling | Speed Management – intelligent management of speed in double deck mode in relation to load on forks | ○ | ○ | ○ | ○ |
| | Soft landing on forks | ○ | ○ | ○ | ○ |
| | Lift end stop sensor | ○ | ○ | ○ | ○ |
| | Low speed if initial lift lowered | ○ | ○ | ○ | ○ |
| | Maximum operating speed limitation (8, 10, 12, 14 km/h, depending on the model) | ○ | ○ | ○ | ○ |
| | Load backrest h=700 mm or 1000 mm | ○ | ○ | ○ | ○ |
| | Overhead guard | ○ | – | ○ | ○ |
| | Dedicated work station (with storage compartments) | ● | ● | ● | ● |
| Environment | Coldstore -35°C (in/out) – with metal grid or standard floor mat | ○ | ○ | ○ | ○ |
| Workplace | Fully suspended operator compartment – both feet platform and steering unit are suspended | ● | ● | ● | ● |
| | Padded leg rest and backrest | ● | – | ● | ● |
| | Twin-grip handlebar | ● | ● | ● | ● |
| | Innovative Linde e-driver control perfectly suited for the 45° operation | ○ | – | ○ | ○ |
| | Height-adjustable steering unit | ○ | – | ○ | ○ |
| | Multifunction coloured display hour meter, maintenance indication, battery discharge indicator and internal fault code indication | ○ | ○ | ○ | ○ |
| | Accessory support | ○ | ○ | ○ | ○ |
| | Support for data terminal and power supply cable 24V | ○ | ○ | ○ | ○ |
| | Scanner support and clipboard | ○ | ○ | ○ | ○ |
| | Electrical socket USB 5V | ○ | – | ○ | ○ |
| Mast | Standard | ○ | ○ | ○ | ○ |
| | Simplex | – | – | ○ | ○ |
| | Duplex | ○ | ○ | ○ | ○ |
| | Triplex | – | – | ○ | ○ |
| | Mast protection: mesh | ○ | ○ | ○ | ○ |
| Attachment /forks | Width over fork carriage 560 mm with fork length 1150 mm | ○ | ○ | ○ | ○ |
| | Width over fork carriage 680 mm with fork length 1150 mm | ○ | ○ | ○ | ○ |
| Axles and tyres | Drive wheel heavy duty, polyurethane non-marking | ● | ● | ● | ● |
| | Drive wheel high grip, polyurethane non-marking | ○ | ○ | ○ | ○ |
| | Drive wheel rubber | – | – | ○ | ○ |
| | Single load wheel, polyurethane | ● | ● | ● | ● |
| | Tandem load wheel, polyurethane (also available in greasable version) | ○ | ○ | ○ | ○ |
| | Castor wheels with spring cylinder | ● | ● | ● | ● |
| | Hydraulic castor wheels, electronically controlled | ○ | ○ | ○ | ○ |
| | Double castor wheel (also available in greasable version) | – | – | ● | ● |
| Drive and brake system | Power steering | ● | ● | ● | ● |
| | Maintenance-free AC motor | ● | ● | ● | ● |
| | Electromagnetic braking system (or electromechanic) | ● | ● | ● | ● |
| | Li-ION and lead-acid technology available with different battery capacities depending on the model | ○ | ○ | ○ | ○ |
| | Integrated charger for lead-acid and Li-ION batteries | ○ | ○ | ○ | ○ |
| | External chargers available | ○ | ○ | ○ | ○ |
| Lighting | Working lamp – with on/off switch for operation in dark environments | ○ | ○ | ○ | ○ |

● Standard equipment

○ Optional equipment

– Not available

MAST TABLES

STANDARD MAST (in mm)

| Lift | h3: 1574 | h3: 1924 | h3: 2424 | h3: 2924 | h3: 3324 | h3: 3824 |
|--|--|--|--|--|--|--|
| Height measurements | h1: 1240 h2: 150 h4: 2094 h1': 1315 | h1: 1415 h2: 150 h4: 2444 h1': 1490 | h1: 1665 h2: 150 h4: 2944 h1': 1740 | h1: 1915 h2: 150 h4: 3444 h1': 1990 | h1: 2115 h2: 150 h4: 3844 h1': 2190 | h1: 2365 h2: 150 h4: 4344 h1': 2440 |
| Manufacturer's type designation | | | | | | |
| D12 SP | ○ | ○ | ○ | ○ | ○ | ○ |
| D14 SP | ○ | ○ | ○ | ○ | ○ | ○ |
| D12 HP SP | ○ | ○ | ○ | — | — | — |
| D12 HP AP | ○ | ○ | ○ | — | — | — |

SIMPLEX MAST (in mm)

| Lift | h3: 1462 | h3: 1612 |
|--|--------------------------------------|--------------------------------------|
| Height measurements | h1: 1915 h2: 1395 h4: 1982 h1': - | h1: 2065 h2: 1545 h4: 2132 h1': - |
| Manufacturer's type designation | | |
| D12 SP | ○ | ○ |
| D14 SP | ○ | ○ |
| D12 HP SP | — | — |
| D12 HP AP | — | — |

DUPLEX MAST (in mm)

| Lift | h3: 1574 | h3: 1924 | h3: 2424 | h3: 2924 | h3: 3324 | h3: 3824 |
|--|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Height measurements | h1: 1240 h2: 720 h4: 2094 h1': - | h1: 1415 h2: 895 h4: 2444 h1': - | h1: 1665 h2: 1145 h4: 2944 h1': - | h1: 1915 h2: 1395 h4: 3444 h1': - | h1: 2115 h2: 1595 h4: 3844 h1': - | h1: 2365 h2: 1845 h4: 4344 h1': - |
| Manufacturer's type designation | | | | | | |
| D12 SP | ○ | ○ | ○ | ○ | ○ | ○ |
| D14 SP | ○ | ○ | ○ | ○ | ○ | ○ |
| D12 HP SP | ○ | ○ | ○ | — | — | — |
| D12 HP AP | ○ | ○ | ○ | — | — | — |

TRIPLEX MAST (in mm)

| Lift | h3: 3516 | h3: 4266 |
|--|--------------------------------------|--------------------------------------|
| Height measurements | h1: 1665 h2: 1145 h4: 4036 h1': - | h1: 1915 h2: 1395 h4: 4786 h1': - |
| Manufacturer's type designation | | |
| D12 SP | ○ | ○ |
| D14 SP | ○ | ○ |
| D12 HP SP | — | — |
| D12 HP AP | — | — |

○ Optional equipment

— Not available

h1: Height of mast, lowered
h1': Height of mast, with initial lift (+75

mm)
h2: Free lift

h3: Lift
h4: Height of mast, extended

1) LP only/LP/LI/LI only

2) (±5 mm)

3) Load arms upraised/lowered

4) -75 mm = 2 PzS vertical; ±0 mm = 3 PzS vertical or side change;

+75 mm 4PzS side change

5) Figures with battery, see line 6.4/6.5.

6) (±10%)

7) Figures in parenthesis with initial lift

8) Figures in parenthesis with tandem load wheels

9) (0/-5 mm)

10) (0/+5 mm)

11) Reach legs 75 × 150 × 1115

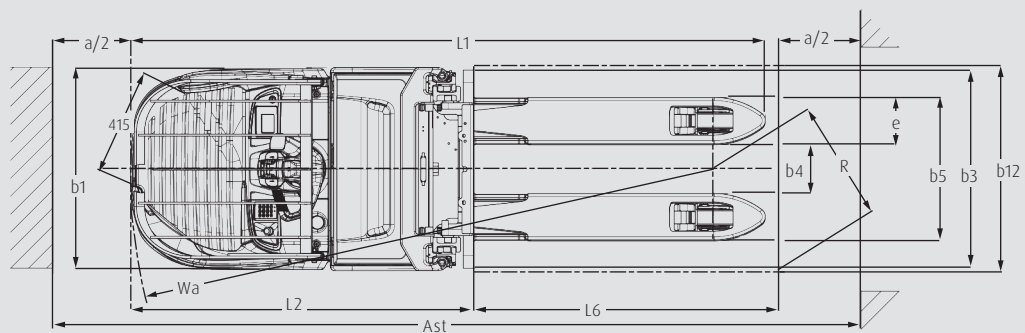
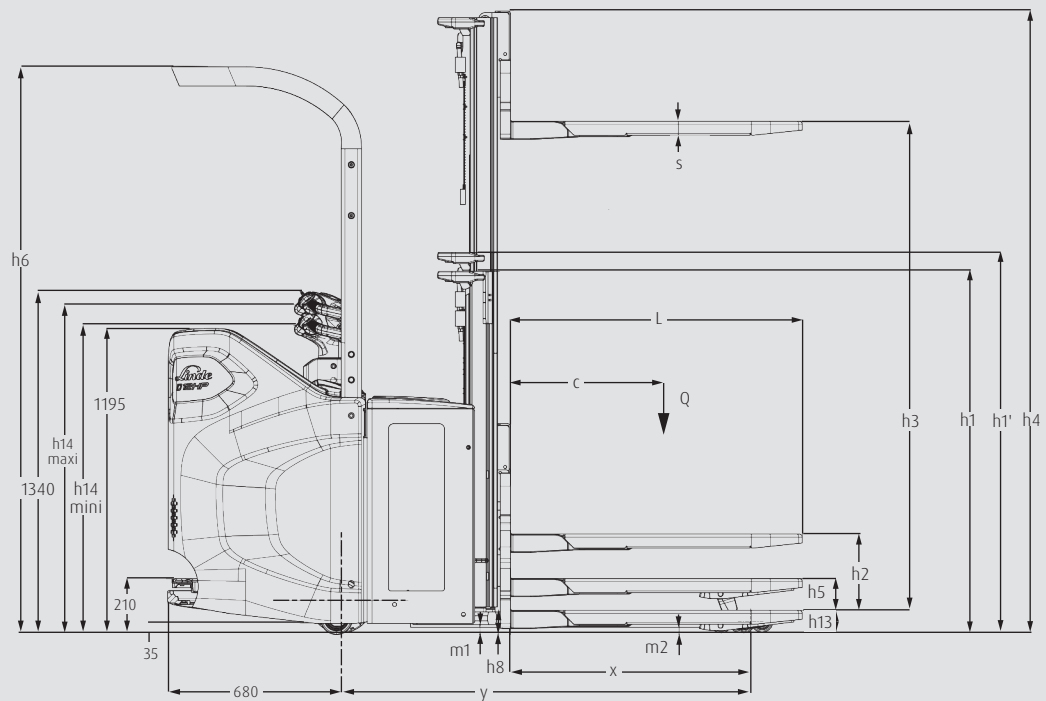
12) Including a 200 mm (min.) operating aisle clearance

13) (±5%)

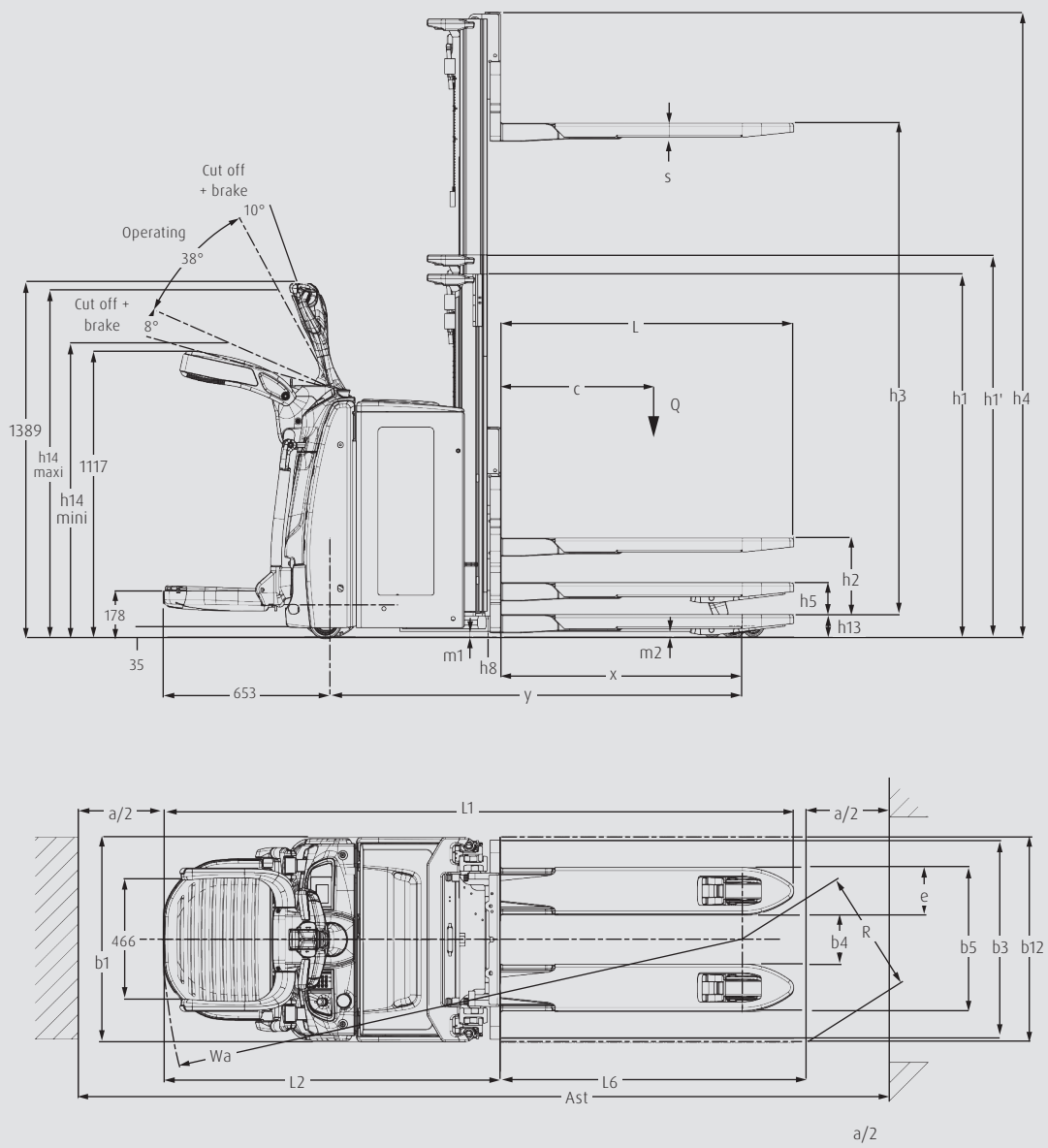
TECHNICAL DATA (according to VDI 2198)

| | Manufacturer (abbreviation) | | | | | | |
|-----------------|----------------------------------|--|----------------|--|--|--|--|
| | 1.1 | | Linde MH | Linde MH | Linde MH | Linde MH | |
| Characteristics | 1.2 | Manufacturer's type designation | D12 SP | D14 SP | D12 HP SP | D12 HP AP | |
| | 1.2a | Series | 1161-00 | 1161-00 | 1161-00 | 1161-00 | |
| Weight | 1.3 | Drive | Battery | Battery | Battery | Battery | |
| | 1.4 | Operation | Stand on | Stand on | Stand on | Pedestrian/stand on | |
| | 1.5 | Rated capacity/rated load | Q (t) | 1.2/1.0/1.0/2.0 ¹⁾ | 1.4/1.0/1.0/2.0 ¹⁾ | 1.2/1.0/1.0/2.0 ¹⁾ | 1.2/1.0/1.0/2.0 ¹⁾ |
| | 1.6 | Load centre distance | c (mm) | 600 | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x (mm) | 874/944 ²⁾³⁾ | 874/944 ²⁾³⁾ | 874/944 ²⁾³⁾ | 874/944 ²⁾³⁾ |
| | 1.9 | Wheelbase | y (mm) | 1541/1611 ²⁾³⁾⁴⁾ | 1541/1611 ²⁾³⁾⁴⁾ | 1541/1611 ²⁾³⁾⁴⁾ | 1541/1611 ²⁾³⁾⁴⁾ |
| | Tyres/chassis | 2.1 | Service weight | kg | 1498 ⁵⁾⁶⁾ | 1498 ⁵⁾⁶⁾ | 1372 ⁵⁾⁶⁾ |
| 2.2 | | Axle loading, laden front/rear | kg | 1102/555 (1759/698) ⁵⁾⁶⁾⁷⁾ | 1266/591 (1759/698) ⁵⁾⁶⁾⁷⁾ | 1091/545 (1748/688) ⁵⁾⁶⁾⁷⁾ | 1089/539 (1746/682) ⁵⁾⁶⁾⁷⁾ |
| 2.3 | | Axle loading, unladen front/rear | kg | 1156/342 ⁵⁾⁶⁾ | 1156/342 ⁵⁾⁶⁾ | 1040/332 ⁵⁾⁶⁾ | 1022/326 ⁵⁾⁶⁾ |
| 3.1 | | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | Polyurethane | Polyurethane | Polyurethane | Polyurethane |
| 3.2 | | Tyre size, front | | Ø 254 × 102 | Ø 254 × 102 | Ø 254 × 102 | Ø 254 × 102 |
| 3.3 | | Tyre size, rear | | Ø 85 × 85 (2x Ø 85 × 60) ⁸⁾ | Ø 85 × 85 (2x Ø 85 × 60) ⁸⁾ | Ø 85 × 85 (2x Ø 85 × 60) ⁸⁾ | Ø 85 × 85 (2x Ø 85 × 60) ⁸⁾ |
| 3.4 | | Additional wheels (dimensions) | | 2x Ø 140 × 50 | 2x Ø 140 × 50 | 2x Ø 125 × 60 | 2x Ø 125 × 60 |
| Dimensions | 3.5 | Wheels, number front/rear (x = driven wheels) | | 1x + 1/2 (1x + 1/4) ⁸⁾ | 1x + 1/2 (1x + 1/4) ⁸⁾ | 1x + 2/2 (1x + 2/4) ⁸⁾ | 1x + 2/2 (1x + 2/4) ⁸⁾ |
| | 3.6 | Tread, front | b10 (mm) | 491 ²⁾ | 491 ²⁾ | 572 ²⁾ | 572 ²⁾ |
| | 3.7 | Tread, rear | b11 (mm) | 380/500 ²⁾ | 380/500 ²⁾ | 380/500 ²⁾ | 380/500 ²⁾ |
| | 4.2 | Mast height, lowered | h1 (mm) | 1915 ²⁾ | 1915 ²⁾ | 1665 ²⁾ | 1665 ²⁾ |
| | 4.3 | Free lift | h2 (mm) | 1395 ²⁾ | 1395 ²⁾ | 1145 ²⁾ | 1145 ²⁾ |
| | 4.4 | Lift | h3 (mm) | 4266 ²⁾ | 4266 ²⁾ | 2424 ²⁾ | 2424 ²⁾ |
| | 4.5 | Mast height, extended | h4 (mm) | 4786 ²⁾ | 4786 ²⁾ | 2944 ²⁾ | 2944 ²⁾ |
| | 4.6 | Initial lift | h5 (mm) | 115 ²⁾ | 115 ²⁾ | 115 ²⁾ | 115 ²⁾ |
| | 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2224 ²⁾ | 2224 ²⁾ | 2224 ²⁾ | - |
| | 4.9 | Height drawbar in driving position min./max. | h14 (mm) | 1207/1287 ²⁾ | 1207/1287 ²⁾ | 1207/1287 ²⁾ | 1149/1357 ²⁾ |
| | 4.10 | Height of wheel arms | h8 (mm) | 80 ¹⁰⁾ | 80 ¹⁰⁾ | 80 ¹⁰⁾ | 80 ¹⁰⁾ |
| | 4.15 | Height, lowered | h13 (mm) | 86 ¹⁰⁾ | 86 ¹⁰⁾ | 86 ¹⁰⁾ | 86 ¹⁰⁾ |
| | Performance | 4.19 | Overall length | l1 (mm) | 2497 ²⁾⁴⁾ | 2497 ²⁾⁴⁾ | 2497 ²⁾⁴⁾ |
| 4.20 | | Length to fork face | l2 (mm) | 1347 ²⁾⁴⁾ | 1347 ²⁾⁴⁾ | 1347 ²⁾⁴⁾ | 1320 ²⁾⁴⁾ |
| 4.21 | | Overall width | b1/b2 (mm) | 800 ²⁾ | 800 ²⁾ | 800 ²⁾ | 800 ²⁾ |
| 4.22 | | Fork dimensions DIN ISO 2331 | s/e/l (mm) | 71/180/1150 ¹¹⁾ | 71/180/1150 ¹¹⁾ | 71/180/1150 ¹¹⁾ | 71/180/1150 ¹¹⁾ |
| 4.24 | | Fork carriage width | b3 (mm) | 780 ²⁾ | 780 ²⁾ | 780 ²⁾ | 780 ²⁾ |
| 4.25 | | Fork spread | b5 (mm) | 560/680 ²⁾ | 560/680 ²⁾ | 560/680 ²⁾ | 560/680 ²⁾ |
| 4.26 | | Distance between wheel arms/loading surfaces | b4 (mm) | 196/316 ²⁾ | 196/316 ²⁾ | 196/316 ²⁾ | 196/316 ²⁾ |
| 4.31 | | Ground clearance, laden, below mast | m1 (mm) | 135/20 ³⁾ | 135/20 ³⁾ | 135/20 ³⁾ | 135/20 ³⁾ |
| 4.32 | | Ground clearance, centre of wheelbase | m2 (mm) | 135/20 ³⁾ | 135/20 ³⁾ | 135/20 ³⁾ | 135/20 ³⁾ |
| 4.33 | | Load dimension b12 × l6 | b12 × l6 (mm) | 800 × 1200 | 800 × 1200 | 800 × 1200 | 800 × 1200 |
| Electric-engine | 4.34 | Aisle width predetermined load dimensions | Ast (mm) | 2937/2966 ³⁾⁴⁾¹²⁾ | 2937/2966 ³⁾⁴⁾¹²⁾ | 2937/2966 ³⁾⁴⁾¹²⁾ | 2910/2939 ³⁾⁴⁾¹²⁾ |
| | 4.34.1 | Aisle width for pallets 1000 × 1200 crossways | Ast (mm) | 3034/3094 ³⁾⁴⁾¹²⁾ | 3034/3094 ³⁾⁴⁾¹²⁾ | 3034/3094 ³⁾⁴⁾¹²⁾ | 3007/3067 ³⁾⁴⁾¹²⁾ |
| | 4.34.2 | Aisle width with pallet 800 × 1200 lengthways | Ast (mm) | 2937/2966 ³⁾⁴⁾¹²⁾ | 2937/2966 ³⁾⁴⁾¹²⁾ | 2937/2966 ³⁾⁴⁾¹²⁾ | 2910/2939 ³⁾⁴⁾¹²⁾ |
| | 4.35 | Turning radius | Wa (mm) | 2221/2291 ³⁾⁴⁾ | 2221/2291 ³⁾⁴⁾ | 2221/2291 ³⁾⁴⁾ | 2194/2264 ³⁾⁴⁾ |
| | 5.1 | Travel speed, laden/unladen | km/h | 10/12 ¹³⁾ | 10/12 ¹³⁾ | 11/14 ¹³⁾ | 11/14 ¹³⁾ |
| | 5.2 | Lifting speed, laden/unladen | m/s | 0.19/0.32 (0.06/0.09) ⁶⁾⁷⁾ | 0.19/0.32 (0.06/0.09) ⁶⁾⁷⁾ | 0.15/0.27 (0.04/0.07) ⁶⁾⁷⁾ | 0.15/0.27 (0.04/0.07) ⁶⁾⁷⁾ |
| | 5.3 | Lowering speed, laden/unladen | m/s | 0.37/0.19 (0.07/0.07) ⁶⁾⁷⁾ | 0.37/0.19 (0.07/0.07) ⁶⁾⁷⁾ | 0.35/0.34 (0.08/0.08) ⁶⁾⁷⁾ | 0.35/0.34 (0.08/0.08) ⁶⁾⁷⁾ |
| | 5.8 | Max. gradeability, laden/unladen | % | 8.0/15.0 | 8.0/15.0 | 8.0/15.0 | 8.0/18.0 |
| 5.9 | Acceleration time, laden/unladen | s | 6.3/4.8 | 6.3/4.8 | 5.9/5.0 | 5.9/5.0 | |
| Drive | 5.10 | Service brake | | hydr./electro-mech. | hydr./electro-mech. | hydr./electro-mech. | hydr./electro-mech. |
| | 6.1 | Drive motor rating S2 60 min | kW | 3 | 3 | 3 | 3 |
| | 6.2 | Lift motor rating at S3 15% | kW | 3.2 | 3.2 | 2.6 | 2.6 |
| | 6.3 | Battery according to DIN 43531/35/36 A,B,C,no | | 43 535 B/3PzS | 43 535 B/3PzS | 43 535 B/3PzS | 43 535 B/3PzS |
| | 6.4 | Battery voltage/nominal capacity (Sh) | (V)/(Ah). kWh | 24/375 | 24/375 | 24/375 | 24/375 |
| | 6.5 | Battery weight (±5%) | kg | 333 | 333 | 333 | 333 |
| | 6.6 | Energy consumption according to DIN EN 16796 | kWh/h | 0.88 | 0.94 | 0.85 | 0.85 |
| | 6.6.1 | CO ₂ equivalent according to EN 16796 | kg/h | 0.48 | 0.51 | 0.46 | 0.46 |
| Additional data | 6.7 | Turnover output according to VDI 2198 | t/h | 54.0 | 63.0 | 55.0 | 55.0 |
| | 6.8 | Turnover efficiency according to VDI 2198 | t/kWh | 32 | 37 | 33 | 33 |
| Additional data | 8.1 | Type of drive unit | | AC control | AC control | AC control | AC control |
| | 10.7 | Sound pressure level LpAZ (at the operator's seat) | dB(A) | 68 | 68 | 68 | 68 |

D12 - D14 SP | D12 HP SP



D12 HP AP



CHARACTERISTICS



Safety enhanced with speed reduction when cornering

Safety

- Automatic adjustment of operating speed when cornering to prevent risky manoeuvres
- Wide mast design for optimal visibility of the load and the immediate vehicle environment
- Operator always remains within the contours of the vehicle for optimum protection in any situation
- Solid steel skirt as a protective shield to protect the operator from injury in the event of a collision (SP version)
- Optional foot detection can also slow down or bring the vehicle to a smooth stop when operator's feet leave the platform (SP version)



Ergonomic, height-adjustable tiller

Ergonomics

- Linde OptiLift assistance system for precise control of mast functions at high working speeds and quiet, energy-saving load handling
- Fully decoupled operator platform to protect the operator from vibrations and shocks
- Innovative steering concept Linde e-driver for optimum, single-handed control of the vehicle in the 45° position if required (SP version)
- Electric power steering for effortless vehicle control in any work situation
- Automatic and gradual adjustment of the travel speed to the steering angle for precise manoeuvring in tight spaces



Perfect combination between power and manoeuvrability

Handling

- High residual capacities for maximum vehicle stability when working at height
- Powerful 3 kW three-phase motor for rapid acceleration even with double load
- High top speeds (14 km/h without load, 11 km/h with load, 7.5 km/h with double load) for fast transport travel (HP version)
- Five-point configuration with optional electrically controlled and hydraulically operated castor wheels for perfect vehicle stability (HP version)
- Optional shortened truck version with Li-ION battery allows for smaller turning radius, especially in tight spaces (HP version)



Easy access to components and data

Service

- Robust 3 kW three-phase motor for long service intervals and low maintenance costs
- Solid construction with durable parts and sturdy chassis for maximum vehicle availability
- Design-to-service principle for effortless accessibility to all relevant components
- Innovative CAN bus structure for fast error analysis via diagnostic connector
- Modern E/E architecture allows remote installation of updates and new functions

Subject to modification in the interest of progress. Illustrations and technical details could include options and are not binding for actual constructions. All dimensions subject to usual tolerances.