



Linde Material Handling

Linde



Pallet Stacker

D10 FP

Capacity 1.0 t | Series 1163

Maneuverable and twice as strong

- Load capacity up to 2000 kg for two pallets (1 t/1 t)
- 720 mm wide chassis and power steering ensure high maneuverability
- Optimized speed for fast load transport
- Steel chassis protects the driver in minor collisions
- Independent braking systems with dead man's switch for protection of driver and load



Here you can find more content via your smartphone: [Linde Augmented Reality App](#)



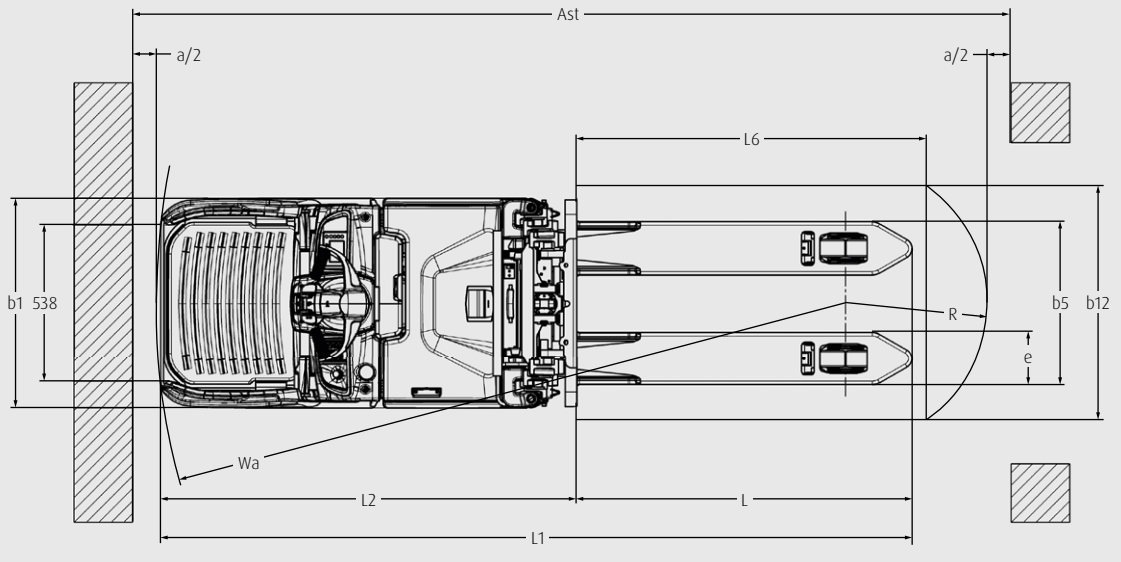
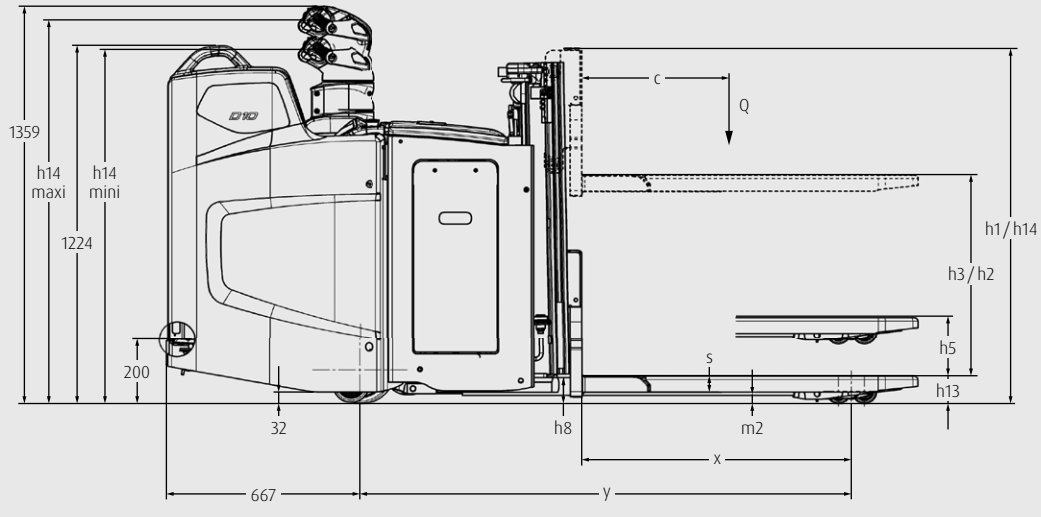
TECHNICAL DATA (According to VDI 2198)

| | | | | |
|-----------------|--|---|-------------------------|--|
| Characteristics | 1.1 | Manufacturer | | Linde |
| | 1.2 | Model | | D10 FP |
| | 1.2.a | Series | | 1163-01 |
| | 1.3. | Power Unit | | Battery |
| | 1.4 | Operation | | Stand on |
| | 1.5 | Load capacity/Load (Lp only; LP/Li; Li only) | Q (t) | 1.2; 1.0/1.0; 2.0 |
| | 1.6 | Load centre distance | c (mm) | 600 |
| | 1.8 | Axle centre to fork face | x (mm) | 952 ³⁾ |
| | 1.9 | Wheelbase | y (mm) | 1680 ³⁾ |
| Weights | 2.1 | Service weight | (kg) | 1336 ²⁾ |
| | 2.2 | Axle load with load, front/rear | (kg) | 1373/1963 ³⁾ |
| | 2.3 | Axle load without load, front/rear | (kg) | 1033/303 ¹⁾ |
| Wheels/Tyres | 3.1 | Tyres rubber, SE, pneumatic, polyurethane | | R + P/P |
| | 3.2 | Tyre size, front | | Ø 230 × 90/230 × 100 |
| | 3.3 | Tyre size, rear | | Ø 85 × 85 (boggies 85 × 60) |
| | 3.4 | Auxiliary wheels (dimensions) | | Ø 2 × 125 × 60 |
| | 3.5 | Wheels, number front/rear (x = driven) | | 1x + 2/2(1x + 2/4) |
| | 3.6 | Track width, front | b10 (mm) | 502 |
| | 3.7 | Track width, rear | b11 (mm) | 380 |
| Dimensions | 4.2 | Height of mast, lowered | h1 (mm) | See Table |
| | 4.3 | Free lift | h2 (mm) | See Table |
| | 4.4 | Lift | h3 (mm) | See Table |
| | 4.5 | Height of mast, extended | h4 (mm) | See Table |
| | 4.6 | Initial lift | h5 (mm) | 125 |
| | 4.9 | Height of tiller arm in operating position, min/max | h14 (mm) | 1000/1100 |
| | 4.10 | height of wheel arms | h8 (mm) | 80 |
| | 4.15 | Height at the end of the fork | h13 (mm) | 86 ³⁾ |
| | 4.19 | Overall length | l1 (mm) | 2545 ⁴⁾ |
| | 4.20 | Length to fork face | l2 (mm) | 1395 ⁴⁾ |
| | 4.21 | Overall width | b1 (mm) | 720 |
| | 4.22 | Dimension of fork arms | s/e/l (mm) | 50/80/1150 |
| | 4.23 | Dimension of load arms | s/e/l (mm) | 75/150/1115 |
| | 4.24 | Fork carriage width | b3 (mm) | 710 |
| | 4.25 | Width over forks | b5 (mm) | 540/560 |
| 4.26 | Internal width of the load arm | b4 (mm) | 210/230 | |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 20 ³⁾ | |
| 4.33 | Load dimension | b12 × l6 (mm) | 800 × 1200 | |
| 4.34 | Aisle width with pallet 800 × 1200 along forks | Ast (mm) | 3005 ^{4) 5)} | |
| 4.35 | Turning radius fork up/down | Wa (mm) | 2293/2363 ⁴⁾ | |
| Performance | 5.1 | Travel speed, with/without load | (km/h) | 10/10 ⁴⁾ |
| | 5.2 | Lifting speed, with/without load | (m/s) | 0.050/0.061 |
| | | Main lifting speed, with/without load | | 0.14/0.22 |
| | 5.3 | Lowering speed, with/without load | (m/s) | 0.102/0.082 |
| | | Main lowering speed, with/without load | | 0.488/0.197 |
| | 5.8 | Maximum climbing ability, with/without load | (%) | 20/15/12 |
| 5.9 | Acceleration time, with/without load | (s) | 5.1/6.4 | |
| 5.10 | Service brake | | Electro magnetic | |
| Drive | 6.1 | Drive motor rating S2 60 min | (kW) | 2.3 |
| | 6.2 | Lift motor rating at S3 10 % | (kW) | 2.2 |
| | 6.3 | Battery according to DIN 43 535 | | 3 PzS SL |
| | 6.4 | Battery voltage/rated capacity (5 h) | | 24/375 |
| | | | (V/Ah) | 3 PzS SL Li-ION 205 Ah: 23/205 3 PzS SL Li-ION 410 Ah: 23/410 |
| | 6.5 | Battery weight (± 10 %) | (kg) | 290 |
| | | Battery and battery housing weight (± 10 %) | (kg) | 3 PzS SL Li-ION 205 Ah: 23/190 |
| | | Battery and battery housing weight (± 10 %) | (kg) | 3 PzS SL Li-ION 410 Ah: 23/229 |
| 6.6 | Power consumption according to VDI cycle | (kWh/h) | 0.483 | |
| 6.7 | Turnover output | (t/h) | 59 | |
| 6.8 | Power consumption at turnover output | (kWh/h) | 1.5 | |
| Others | 8.1 | Type of drive unit | | LAC |
| | 10.7 | Sound level at driver's ear | (dB(A)) | 62 |

1) Weight according to line 2.1
2) With the battery line 6.5

3) Forks down
4) Add 75 mm for 4 PzS

5) Forks up; Ast = Wa + R + a, safety distance a = 200 mm
6) Other speeds available



MAST TABLES

STANDARD MAST (in mm)

| Lift | h3: 1574 | | h3: 1724 | | h3: 2024 | | h3: 2424 | |
|---------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|----------------------|
| Height measurements | h1: 1240 h2: 150 h4: 2094 | h1':1315 h3: 1574 | h1: 1315 h2: 150 h4: 2244 | h1':1390 h3: 1724 | h1: 1465 h2: 150 h4: 2544 | h1':1540 h3: 2024 | h1: 1665 h2: 150 h4: 2944 | h1':1740 h3: 2424 |
| Model | | | | | | | | |
| D10 FP | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | |

DUPLEX MAST (in mm)

| Lift | h3: 1574 | | h3: 1724 | | h3: 2024 | | h3: 2424 | |
|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|---------------------|-----------------------|----------------------|
| Height measurements | h1: 1240 h3: 1574 | h2: 720 h4: 2094 | h1: 1315 h3: 1724 | h2: 795 h4: 2244 | h1: 1465 h3: 2024 | h2: 945 h4: 2544 | h1: 1665 h3: 2424 | h2: 1145 h4: 2944 |
| Model | | | | | | | | |
| D10 FP | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | | <input type="radio"/> | |

TRIPLEX MAST (in mm)

| Lift | h3: 2136 | |
|---------------------|-----------------------|---------------------|
| Height measurements | h1: 1165 h3: 2136 | h2: 645 h4: 2051 |
| Model | | |
| D10 FP | <input type="radio"/> | |

Optional equipment

– Not available

h1: Height of mast, lowered

h1': Height of mast

h2: Free lift

h3: Lift

h4: Height of mast, extended

STANDARD AND OPTIONAL EQUIPMENT

| Model/Equipment | | D10 FP |
|---------------------------|--|--------|
| Safety | Key switch | ● |
| | Pin code | ○ |
| | Lift end stop sensor | ○ |
| Digitalisation | Linde connect | ○ |
| | ac:access control PIN | ○ |
| | ac:access control RFID dual | ○ |
| | Data transfer Online | ○ |
| | Data transfer Wifi | ○ |
| | dt:crash detection | ○ |
| | an:usage analysis | ○ |
| | Bluetooth USB stick | ○ |
| | dt:trouble codes | ○ |
| Operation / Load Handling | Low speed if initial lift low | ○ |
| | Speed management | ○ |
| | Load backrest 800 mm | ○ |
| Environment | Cold store -35 °C (in/out) | ○ |
| Workplace | Fully suspended operator compartment | ○ |
| | Height adjustable console | ○ |
| | Front bow | ○ |
| | Front support data terminal | ○ |
| | Front power supply cable 24 V | ○ |
| | Front scanner support | ○ |
| | Working lamp | ○ |
| | Front clipboard | ○ |
| | Basic rounded display | ● |
| | Multifunction color display | ○ |
| Mast | Wide variety of standard, duplex and triplex masts | ○ |
| | Mast protection polycarbonate and mesh | ○ |
| Attachment / Forks | Width over fork carriage 560 mm with fork length 1150 mm | ● |
| | Width over fork carriage 540 mm with fork length 1150 mm | ○ |
| Axles and Tyres | Drive wheel polyurethane | ● |
| | Drive wheel cushion rubber, cus. rubber with tread, non marking and wet grip | ○ |
| | Single load wheel polyurethane | ● |
| | Single load wheel polyurethane (greasable) | ○ |
| | Tandem load wheel polyurethane and polyurethane greasable | ○ |
| | Castor wheels spring cylinder | ● |
| Drive and Brake-System | Hydraulic castor wheel | ○ |
| | Battery compartment, vertical change 3 PzS (345/375 Ah) and 4 PzS (460/500 Ah) | ○ |
| | Battery compartment, lateral change 3 PzS and 3 PzS+door (345/375 Ah) incl. ergonomic bat. un/locking with lever | ○ |
| | Battery compartment, lateral change 4 PzS and 4 PzS+door (460/500 Ah) incl. ergonomic bat. un/locking with lever | ○ |
| | Battery compartment, Li-ION battery 4.5 kWh (205 Ah) and 9.0 kWh (410 Ah) with side plug for easy opportunity charging | ○ |
| | Automatic watering system | ○ |
| Li-ION 24 V chargers | ○ | |

● Standard equipment ○ Optional equipment – Not available

CHARACTERISTICS



Steel chassis to protect the driver

Safety

- Steel chassis protects the driver in the event of a collision
- Independent braking systems protect driver and load
- Driver platform functions as dead man's switch
- Adapted cornering speed prevents tipping accidents



Ergonomic, height adjustable control handle

Ergonomics

- Ergonomic handle for comfortable and precise handling
- Optional height adjustable control handle adapts to the driver
- Optional fully suspended operator's platform protects against vibrations and shocks
- Spacious storage compartments offer space for work equipment



Efficient transport of two pallets

Handling

- Transport of two pallets with a combined load capacity of 2000 kilograms (1 t/1 t)
- Narrow design and electric power steering ensure maneuverability in confined spaces
- Powerful, low-maintenance motor for high acceleration and maximum speed
- Different mast types suitable for the respective task (maximum mast height: 2424 mm)



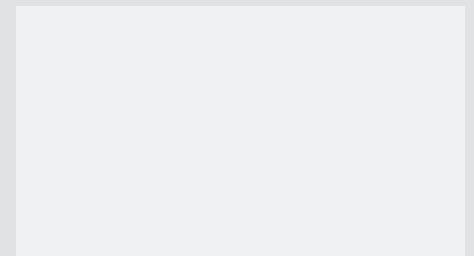
Easy access to all data with multifunction display

Service

- CAN bus connection for fast analysis of vehicle data using a laptop computer
- Free access to relevant vehicle components facilitates maintenance
- Maintenance-free AC drive ensures short downtimes
- Digital instrument display for an overview of important data

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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