

## Standard Equipment/Optional Equipment

### Standard Equipment

Cushion rubber drive wheel  
 Single polyurethane load wheels  
 Compact vertical change for BS battery  
 Max. lift height to top of the pallet : 804mm  
 Protection screen between mast channels  
 Compact lifting system for excellent visibility of the forks  
 Fork length : 1150 mm  
 Width over forks : 560 mm

Solid and long-lasting Extraal® covers  
 Storage for shrink wrap, pens, gloves on the battery cover  
 Hour meter and battery discharge indicator  
 Key switch or LFM Go (PIN-code access)  
 Horn  
 Digital LAC controller  
 Automatic parking brake  
 Protection to -10°C

### Optional Equipment

Drive wheels: polyurethane, non-marking, wet grip, treaded polyurethane, treaded cushion  
 Load wheels: tandem polyurethane or tandem polyurethane greaseable  
 Fork length : 1190 mm  
 Width over forks : 520 mm  
 Creep speed activated from the tiller head  
 Proportional speed according to the tiller angle  
 Additional buttons for lifting/lowering the forks on chassis side  
 Automatic lifting of the forks

Automatic lifting & lowering with foot protection  
 Lateral battery change for 2 PzS battery  
 Load backrest: 900 mm or 1290 mm high  
 Built-in charger - high frequency technology - 24V / 35A  
 Cold store protection to -35°C  
 Linde Connected Solutions:  
 ac:access control (PIN or RFID Dual), an:usage analysis and dt:crash detection  
 Castor wheels with springs & damper  
 Additional emergency stop button  
 Buzzer for noise sensitive areas

Other options available on request.

### Li-ION technology

Fast Full Charge  
 Opportunity Charging  
 Fast Intermediate Charging  
 Maintenance Free  
 Long Lifetime  
 Good performance in Cold Store

### Li-ION batteries

- fits in 2 PzS-SL compartment:  
 1,8kWh-9,0kWh (24V/82-410Ah)  
 - Battery housing extra weight compulsory for 1,8 - 3,6kWh batteries  
**Optimized 24V-Li-ION charger**  
 - v90:1,8kWh (82 Ah); v160:3,6kWh (164Ah)  
 - v225:4,5kWh-9kWh (205-410Ah)



## Pallet Truck Capacity 1600 kg/800 kg T16L

Series 1152

Linde Material Handling



### Safety

The Linde T16L benefits from a long tiller with a low mounting point ensuring a large safety clearance between operator and chassis. While using optional buttons or automatic function from the chassis side, the lowering stops automatically to keep the operator's feet safe. Creep speed and proportional speed functions, available as options, provide optimum safety while travelling or manoeuvring in tight corners.

### Performance

The T16L shows its true efficiency on the job. The powerful lift and traction motors supply the performance needed to achieve a high level of productivity. Wide spaced mast channels provide excellent stability for the load enabling a residual capacity of 800 kg in fully raised position.

### Comfort

Empty pallets can be raised by 804 mm, eliminating back or upper body strain. This height adjustment is really appreciated when order picking, restocking shelves in retail stores or assembly line activities in manufacturing industries. Additional buttons located on the truck side and automatic functions enable all kind of loads to be lifted or lowered quickly and without fatigue.

## Features

### Safety

- Long tiller arm and low mounting point ensure ample safety clearance between operator and chassis
- Low chassis skirt protects operator's feet when manoeuvring
- Ergonomic tiller head: wrap-around protection for the operator's hands
- Feet protection on the lowering functions used from the chassis side
- Proportional traction speed according to the tiller angle (option)

### Stability

- Integrated mast matched to chassis width
- Highly resistant fork carriage and load arms made of robust pressed steel



### Controls

- Separate controls for initial lift and high lift
- OptiLift proportional lifting controls
- Additional lifting/lowering buttons on chassis sides (option)
- Automatic lifting or lifting/lowering function (option)
- Creep speed (option)
- All commands integrated to the tiller

### Handling

- Chassis narrower than a pallet
- Compact dimensions and small turning radius
- Long tiller arm reduces steering effort to maximise manoeuvrability

### Extraal cover

- Extremely strong - lasts the life time of the truck
- Easily removed for fast, convenient access to all components



### AC Motor

- Powerful, smooth-running motor, 1.2 kw (at 100% output)
- Climbing ability -14%, fully laden
- Travel speed adjustable up to 6km/h max. laden or unladen



### Braking

- Highly efficient mechanical brake when tiller is fully raised or lowered
- Automatic electric braking on releasing traction butterfly or reversing direction
- Truck slows before coming to a stop, remaining under total control at all times
- No roll-back when starting on a slope



### Batteries and chargers

- Lead acid BS or 2PzS battery up to 250Ah
- Lateral change for 2PzS compartment
- Optional build-in charger available
- Lithium-ion batteries available
- Opportunity charging 60% in 40 min

Linde Material Handling | 5 Distillers Place | Huntingwood NSW 2148  
 Phone 1300 135 463 | www.lindemh.com.au



# Technical Data according to VDI 2198

|                 |  |   |  |  |
|-----------------|--|---|--|--|
| Characteristics | 1.1  | Manufacturer  | LINDE                                  |  |
|                 | 1.2  | Manufacturer's type designation                     | <b>T16L / [T16L ION]</b> <sup>1)</sup> |  |
|                 | 1.2a   | Series  | 1152-01                                |  |
|                 | 1.3  | Power unit  | Battery                                |  |
|                 | 1.4  | Operation   | Pedestrian                             |  |
|                 | 1.5  | Load capacity/Load                                  | Q (t)                                  | 1.6 <sup>2)</sup>                                  |
|                 | 1.6  | Load centre distance                                | c (mm)                                 | 600  |
|                 | 1.8  | Axle centre to fork face                            | x (mm)                                 | 890 / 950 <sup>3)</sup> 4)                         |
|                 | 1.9  | Wheelbase   | y (mm)                                 | 1338 / 1404 <sup>3)</sup> 4)                       |
| Weights         | 2.1  | Service weight                                      | (kg)                                   | 603 (186) [522] <sup>1)</sup> 5)                   |
|                 | 2.2  | Axle load with load, front/rear                     | (kg)                                   | 805/1398 (758/1398)<br>[744/1378] <sup>1)</sup> 5) |
|                 | 2.3  | Axle load without load, front/rear                  | (kg)                                   | 458/145 (411/145) [397/125] <sup>1)</sup> 5)       |
| Wheels/Tyres    | 3.1  | Tyres rubber, SE, pneumatic, polyurethane           | R+P/P <sup>6)</sup>                    |  |
|                 | 3.2  | Tyre size, front                                    | Ø 230 x 75                             |  |
|                 | 3.3  | Tyre size, rear                                     | Ø 85 x 90 (Ø 85 x 65) <sup>7)</sup>    |  |
|                 | 3.4  | Auxiliary wheels (dimensions)                       | Ø 125 x 40                             |  |
|                 | 3.5  | Wheels, number front/rear (x = driven)              | 1x + 2 / 2 (1x + 2 / 4) <sup>7)</sup>  |  |
|                 | 3.6  | Track width, front                                  | b10 (mm)                               | 482 <sup>1)</sup>                                  |
|                 | 3.7  | Track width, rear                                   | b11 (mm)                               | 340 / 380 <sup>6)</sup> 9)                         |
| Dimensions      | 4.2  | Height of mast, lowered                             | h1 (mm)                                | 1275   |
|                 | 4.3  | Free lift   | h2 (mm)                                | 550  |
|                 | 4.4  | Lift  | h3 (mm)                                | 550  |
|                 | 4.6  | Initial lift  | h5 (mm)                                | 125  |
|                 | 4.9  | Height of tiller arm in operating position, min/max | h14 (mm)                               | 720 / 1240   |
|                 | 4.15   | Height, lowered                                     | h13 (mm)                               | 85   |
|                 | 4.19   | Overall length                                      | l1 (mm)                                | 1842 (1767) <sup>9)</sup> 4)                       |
|                 | 4.20   | Length to fork face                                 | l2 (mm)                                | 692 (617) <sup>9)</sup> 4)                         |
|                 | 4.21   | Overall width                                       | b1/b2 (mm)                             | 720 <sup>1)</sup>                                  |
|                 | 4.22   | Fork dimensions DIN ISO 2331                        | s/e/l (mm)                             | 50 x 180 x 1150                                    |
|                 | 4.25   | Fork spread   | b5 (mm)                                | 520 / 560 <sup>4)</sup>                            |
|                 | 4.32   | Ground clearance, centre of wheelbase               | m2 (mm)                                | 20 / 145 <sup>9)</sup>                             |
|                 | 4.34.1   | Aisle width for pallets 1000 x 1200 crossways       | Ast (mm)                               | 2085 (2010) <sup>9)</sup> 10)                      |
|                 | 4.34.2   | Aisle width with pallet 800 x 1200 along forks      | Ast (mm)                               | 2135 (2060) <sup>9)</sup> 10)                      |
|                 | 4.35   | Turning radius                                      | Wa (mm)                                | 1625 / 1685 (1550 / 1610) <sup>9)</sup> 11)        |
| Performance     | 5.1  | Travel speed, with/without load                     | (km/h)                                 | 6 / 6 <sup>11)</sup>                               |
|                 | 5.2  | Lifting speed, with/without load                    | (m/s)                                  | 0.115 / 0.184 (0.035 / 0.041) <sup>12)</sup> 13)   |
|                 | 5.3  | Lowering speed, with/without load                   | (m/s)                                  | 0.326 / 0.13 (0.062 / 0.031) <sup>12)</sup> 13)    |
|                 | 5.8  | Maximum climbing ability, with/without load         | (%)                                    | 14.0 / 25.0  |
|                 | 5.9  | Acceleration time, with/without load                | (s)                                    | 7.5 / 6.5  |
|                 | 5.10   | Service brake                                       |  | Electro-magnetic                                   |
| Drive           | 6.1  | Drive motor rating S2 60 min                        | (kW)                                   | 1.2  |
|                 | 6.2  | Lift motor rating at S3 15%                         | (kW)                                   | 1.2  |
|                 | 6.3  | Battery according to DIN 43531/35/36 A,B,C,no       |  | 43 535/B (2PzS (BS)) [Li-ION]                      |
|                 | 6.4  | Battery voltage/rated capacity (5h)                 | (V)/(Ah)                               | 24 / 180 (24 / 150) [23 / 205] <sup>1)</sup>       |
|                 | 6.5  | Battery weight (+ 5%)                               | (kg)                                   | 191 (144) [110] <sup>1)</sup>                      |
|                 | 6.6  | Power consumption according to VDI cycle            | (kWh/h)                                | 0.38   |
| 8.1             | Type of drive unit                               |   | LAC                                    |  |
| 10.7            | Sound pressure level LpAZ (at the driver's seat) | (dB(A))   | 62                                     |  |

- 1) Figures in [ ] with Li-ION battery see line 6.4
- 2) 1600 kg on the load arms (initial lift) - reduced to 800 kg on the lifted forks (auxiliary lift)
- 3) Forks upraised / lowered
- 4) (+ 5 mm)
- 5) Figures in parenthesis refer to short version with BS cells
- 6) Solid rubber + polyurethane / polyurethane
- 7) Figures in parenthesis with tandem load wheels.

- 8) Depending on the forks spread; see 4.25
- 9) min./max.
- 10) Including a 200 mm (min.) operating aisle clearance.
- 11) (+ 5%)
- 12) Figures in parenthesis with initial lift
- 13) (+ 10%)

