

Standard Equipment/Optional Equipment

Standard Equipment

Long tiller with low mounting point
 Fibre-glass reinforced tiller and tiller head (Grivory®)
 Exxtral® motor and battery cover
 Creep speed control (T20)
 Proportional speed control (T20)
 End-of-stroke resistance
 Wide and deep storage compartments depending on battery size
 Multi-function display with hourmeter including scheduled maintenance, fault code and battery discharge indicator
 Key switch or LFM Go (PIN-code access)
 AC motor

Linde LAC controller
 CAN-bus architecture
 Electromagnetic brake
 Automatic parking brake
 Cushion rubber or polyurethane drive wheel
 Single polyurethane load wheels
 Fork length: 1150 mm
 Width over forks: 560 mm
 Protection to -10°C
 Vertical 2 PzS battery change
 Horn
 Clipboard

Optional Equipment

Drive wheels: wet grip, non marking polyurethane, treaded polyurethane, treaded cushion
 Load wheels: tandem polyurethane, single and tandem polyurethane greaseable
 Vertical 3 PzS (T18, T20) battery change
 Lateral 2 PzS (T16, T18, T20) and 3 PzS (T18, T20) battery change
 Mobile roller trolley (1 battery)
 Fixed roller trolley (2 batteries)
 Alternative fork lengths and widths
 Load backrest
 Creep speed control (T16, T18)
 Proportional speed control (T18)

Linde Connected Solutions:
 ac:access control (PIN or RFID Dual), an:usage analysis and dt:crash detection
 Cold store protection to -35°C
 Automatic battery watering system
 Built-in charger
 High frequency charger
 Castor wheels with springs & damper
 Additional emergency stop button
 Buzzer for noise sensitive areas
 Initial lift end stop

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-B comp. (T16 ION, T18 ION): 1,8kWh-3,6kWh (24V/82-164Ah)
 - fits in 2 PzS comp. (T16 ION, T18 ION, T20 ION): 4,5kWh-9kWh (205-410Ah)
Optimized 24V-Li-ION charger
 - v90: 1,8kWh (82Ah); v160:3,6kWh (164 Ah)
 - v225: 4,5kWh-9kWh (205-410 Ah)



Electric Pallet Truck Capacity 1600, 1800 and 2000 kg T16, T18, T20

Series 1152

Linde Material Handling



Safety

The lower chassis is rounded in shape and low to the ground protecting the operator's feet whilst the hand guards of the tiller head effectively shield his hands. The long tiller mounted low down on the chassis ensures ample safety clearance between operator and truck as well as keeping steering effort low.

Performance

The combination of a new AC motor and Linde LAC digital control makes these pallet trucks highly efficient. Operating parameters can be adjusted to match any application. When additional performance is needed, a booster effect automatically provides higher torque.

Comfort

All controls on the ergonomic tiller can be easily operated by either hand. A Creep speed button offers utmost manoeuvrability in confined areas. Proportional speed feature automatically alters traction speed in relation to the distance between truck and operator. Finished in tactile materials, these trucks deliver effortless, smooth load handling to deliver greater productivity.

Features

Steering system

- Proportional speed control varies truck speed automatically in relation to tiller angle for safe, comfortable and productive operation
- A Creep speed button ensures high manoeuvrability in confined areas when operating at low speeds with the tiller in the upright position
- End-of-stroke resistance on the tiller avoids accidental, abrupt braking
- Soft tiller fold-back slows down the tiller when returning into upright position, avoiding tiller snapping on the motor cover

Working station & Display

- Wide, deep storage compartment for shrink wrap, pens, markers etc.
- Strong and durable Exxtral® motor and battery cover
- Multi-function display with hourmeter including scheduled maintenance, fault code and battery discharge indicator



Braking system

- Highly efficient electromagnetic brake applied by moving the tiller to fully up or down position
- Automatic braking on releasing traction butterfly or reversing direction
- Truck slows before coming to a stop, remaining under total control at all times



Chassis & Forks

- Compact, rounded shape
- Strong, robust steel construction
- Low chassis skirt to protect operator's feet
- Sturdy fork tips: each can support a load of 2,000 kg without bending
- Large castor wheels with shock absorbers for stability on ramps and uneven floors

Tiller & Tiller head

- The ergonomic Grivory® material ensures effortless operation
- Long tiller with low mounting point provides a large safety clearance between operator and chassis
- Wrap-around hand protection
- Comfortable controls, operable with either hand and gloves



Comprehensive energy solutions

- Wide range of lead acid batteries from 2.1kWh to 7.1kWh (150-375Ah) optionally with built in 35A charger, and side battery change on rollers
- Li-ION batteries from 1.8kWh to 9.0kWh (82-410Ah) with optimized charger

AC motor & Booster effect

- Powerful, smooth-running AC motor, 1.2 kW (at 100% output)
- Traction speed adjustable up to 6 km/h, laden or unladen
- Booster effect provides higher torque for additional power
- No roll-back on hill starts
- Gradient performance: 24% unladen, 10% with 2 t load



Maintenance/CAN-bus architecture

- Zero maintenance, moisture and dust-proof AC motor
- CAN-bus architecture enables fast, easy access to all truck data
- Individually adjustable parameters via diagnostic plug
- Rapid and convenient access to main components via front service panel

Linde Material Handling



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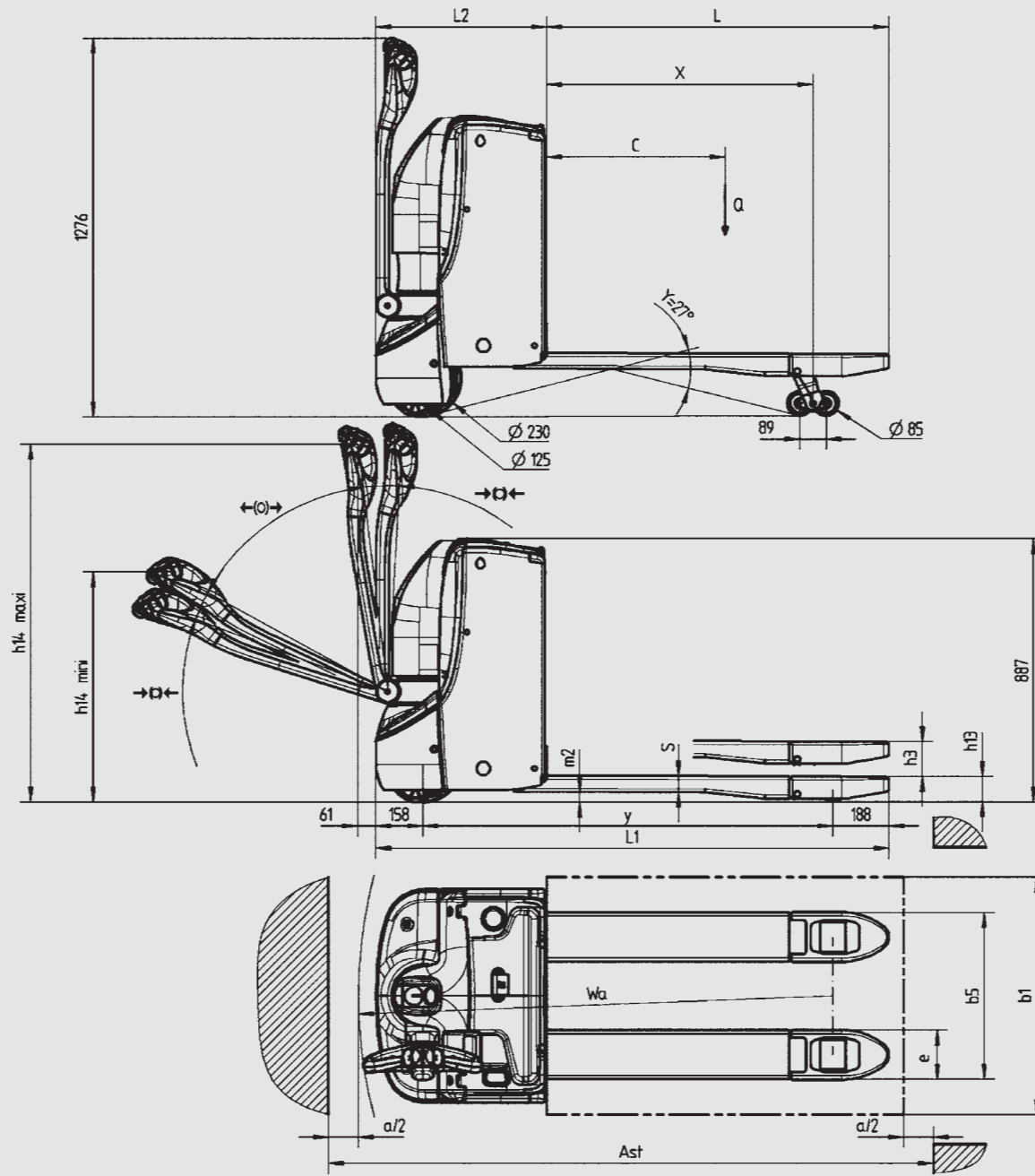
Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.

Technical Data according to VDI 2198

| | | | LINDE | LINDE | LINDE | |
|-----------------|--|---|-------------------------------------|---|---|---------------------------------------|
| Characteristics | 1.1 | Manufacturer | LINDE | LINDE | LINDE | |
| | 1.2 | Model designation | T16 / [T16 ION]¹⁾ | T18 / [T18 ION]¹⁾ | T20 / [T20 ION]¹⁾ | |
| | 1.2a | Series | 1152 | 1152 | 1152 | |
| | 1.3 | Power unit | Battery | Battery | Battery | |
| | 1.4 | Operation | Pedestrian | Pedestrian | Pedestrian | |
| | 1.5 | Load capacity/Load | Q (t) | 1.6 | 1.8 | 2.0 |
| | 1.6 | Load centre | c (mm) | 600 | 600 | 600 |
| | 1.8 | Axle centre to fork face | x (mm) | 890 / 962 ²⁾³⁾ | 890 / 962 ²⁾³⁾ | 890 / 962 ²⁾³⁾ |
| | 1.9 | Wheelbase | y (mm) | 1312 / 1378 ²⁾³⁾ | 1312 / 1378 ²⁾³⁾ | 1312 / 1378 ²⁾³⁾ |
| Weights | 2.1 | Service weight | (kg) | 421 [328] ¹⁾ | 485 [349] ¹⁾ | 582 [426] ¹⁾ |
| | 2.2 | Axle load with load, front/rear | (kg) | 681/1340 [591/1337] ¹⁾ | 748/1537 [650/1499] ¹⁾ | 874/1708 [749/1677] ¹⁾ |
| | 2.3 | Axle load without load, front/rear | (kg) | 327 / 94 [237 / 91] ¹⁾ | 350 / 135 [252 / 97] ¹⁾ | 432 / 150 [307 / 119] ¹⁾ |
| Wheels/Tyres | 3.1 | Tyres rubber, SE, pneumatic, polyurethane | | R+P/P ⁴⁾ | R+P/P ⁴⁾ | R+P/P ⁴⁾ |
| | 3.2 | Tyre size, front | | Ø 230 x 75 | Ø 230 x 75 | Ø 230 x 75 |
| | 3.3 | Tyre size, rear | | Ø 85x105 (Ø 85x100) ⁵⁾ | Ø 85x105 (Ø 85x100) ⁵⁾ | Ø 85x105 (Ø 85x100) ⁵⁾ |
| | 3.4 | Auxiliary wheels (dimensions) | | Ø 125 x 40 | Ø 125 x 40 | Ø 125 x 40 |
| | 3.5 | Wheels, number front/rear (x = driven) | | 1x + 2 / 2 (1x + 2 / 4) ⁵⁾ | 1x + 2 / 2 (1x + 2 / 4) ⁵⁾ | 1x + 2 / 2 (1x + 2 / 4) ⁵⁾ |
| | 3.6 | Track width, front | b10 (mm) | 482 | 482 | 482 |
| | 3.7 | Track width, rear | b11 (mm) | 355 / 395 / 515 | 355 / 395 / 515 | 355 / 395 / 515 |
| Dimensions | 4.4 | Lift | h3 (mm) | 125 | 125 | 125 |
| | 4.9 | Height of tiller arm in operating position, min/max | h14 (mm) | 740 / 1208 | 740 / 1208 | 740 / 1208 |
| | 4.15 | Height, lowered | h13 (mm) | 88 | 88 | 88 |
| | 4.19 | Overall length | l1 (mm) | 1650 | 1725 [1650] ¹⁾ | 1800 [1725] ¹⁾ |
| | 4.20 | Length to fork face | l2 (mm) | 500 | 575 [500] ¹⁾ | 650 [575] ¹⁾ |
| | 4.21 | Overall width | b1/b2 (mm) | 720 | 720 | 720 |
| | 4.22 | Fork dimensions | s/e/l (mm) | 55 x 165 x 1150 | 55 x 165 x 1150 | 55 x 165 x 1150 |
| | 4.25 | Fork spread, min/max | b5 (mm) | 520 / 540 / 560 / 680 | 520 / 540 / 560 / 680 | 520 / 540 / 560 / 680 |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 36 / 161 ⁴⁾ | 36 / 161 ⁴⁾ | 36 / 161 ⁴⁾ |
| | 4.33 | Aisle width with pallet 1000 x 1200 across forks | Ast (mm) | 1900 ⁷⁾⁸⁾⁹⁾ | 1975 [1900] ¹⁾⁷⁾⁸⁾⁹⁾ | 2050 [1975] ¹⁾⁷⁾⁸⁾⁹⁾ |
| 4.34 | Aisle width with pallet 800 x 1200 along forks | Ast (mm) | 1950 ⁷⁾⁸⁾ | 2025 [1950] ¹⁾⁷⁾⁸⁾ | 2100 [2025] ¹⁾⁷⁾⁸⁾ | |
| 4.35 | Turning radius | Wa (mm) | 1440 / 1510 ⁷⁾⁷⁾ | 1515 / 1585 [1440 / 1510] ¹⁾⁷⁾⁷⁾ | 1590 / 1660 [1515 / 1585] ¹⁾⁷⁾⁷⁾ | |
| Performance | 5.1 | Travel speed, with/without load | (km/h) | 6 / 6 | 6 / 6 | 6 / 6 |
| | 5.2 | Lifting speed, with/without load | (m/s) | 0.035 / 0.044 | 0.033 / 0.044 | 0.034 / 0.044 |
| | 5.3 | Lowering speed, with/without load | (m/s) | 0.065 / 0.062 | 0.065 / 0.063 | 0.07 / 0.06 |
| | 5.8 | Maximum climbing ability, with/without load | (%) | 13.0 / 24.0 | 12.0 / 24.0 | 10.0 / 24.0 |
| | 5.9 | Acceleration time, with/without load | (s) | 7.4 / 6.4 | 7.5 / 6.4 | 7.6 / 6.4 |
| | 5.10 | Service brake | | Electro-magnetic | Electro-magnetic | Electro-magnetic |
| Drive | 6.1 | Drive motor, 60 minute rating | (kW) | 1.2 | 1.2 | 1.2 |
| | 6.2 | Lift motor, rating at S3 15% | (kW) | 1 | 1 | 1.2 |
| | 6.3 | Battery according to DIN 43531/35/36 A,B,C,no | | 2PzS-B [Li-ION] | 43 535/B 2PzS [Li-ION] | 43 535/B 3PzS [Li-ION] |
| | 6.4 | Battery voltage/rated capacity (5h) | (V/Ah) | 24 / 150 [24 / 82] ¹⁾ | 24 / 250 [24 / 164] ¹⁾ | 24 / 375 [24 / 410] ¹⁾ |
| | 6.5 | Battery weight (± 5%) | (kg) | 157 [63] | 212 [84] | 288 [151] |
| | 6.6 | Power consumption according to VDI cycle | (kWh/h) | 0.38 | 0.38 | 0.38 |
| Others | 8.1 | Type of drive control | | LAC | LAC | LAC |
| | 8.4 | Noise level at operator's ear | (dB(A)) | <70 | <70 | <70 |

1) Figures in [] with Li-ION battery see line 6.4
 2) Forks upraised / lowered
 3) (+ 5 mm)
 4) Solid rubber + polyurethane / polyurethane
 5) Figures in parenthesis with tandem load wheels.

6) min./max.
 7) With creep speed = tiller in vertical position
 8) Including a 200 mm (min.) operating aisle clearance.
 9) With fork length 1150 mm



| Battery compartment | Energy (kWh) Lead Acid [Li-ION] | Battery Capacity (Ah) Lead Acid [Li-ION] | Battery weight (kg) Lead Acid [Li-ION] | Dimension l2 (mm) | Dimension l1 (mm) | Fork length l (mm) | Turning radius Wa (mm) | Aisle width Pallet 800 x 1200 lengthwise | Aisle with Pallet 1000 x 1200 cross-wise | Full charging time for Li-ION width optimized charger |
|---------------------|---------------------------------|--|--|-------------------|-------------------|--------------------|------------------------|--|--|---|
| 2-PzS-B* | 2,66 [1,8/3,6] | 150 [82/164] | 140 [63/84] | 500 | 1650 | 1150 | 1440 | 1950 | 1900 | 1h30min/1h30min |
| 2-PzS | 4,44 [4,5/9,0] | 250 [205/410] | 210 [110/151] | 575 | 1725 | 1150 | 1515 | 2020 | 1975 | 1h30min/2h40min |
| 3-PzS** | 6,66 | 270-375 | 290 | 650 | 1800 | 1150 | 1590 | 2100 | 2050 | - |

*not available on the T20 ION / **not available on the T16 models

