

Standard Equipment/Optional Equipment

Standard Equipment

Sinergo®, the operator/truck interface

- Long tiller arm with low mounting point made out of Grivory®

- Exxtral® motor and battery cover

- Creep speed control (T20)

- Proportional speed control (T20)

- End-of-stroke resistance

- Different storage compartments depending on battery size

Multifunction display with hourmeter, maintenance indication,

battery discharge indicator and internal fault code indication

Key switch or LFM Go (PIN-code access)

AC motor

Linde LAC controller

CAN-bus architecture

Electromagnetic brake

Automatic parking brake

Cushion rubber drive wheel

Single polyurethane load wheels

Fork length: 1150 mm

Width over forks: 560 mm

Protection to -10°C

Vertical 2PzS battery change (T16, T18)

Horn

Optional Equipment

Drive wheels: polyurethane, wet grip, non marking polyurethane, treaded polyurethane, treaded cushion

Load wheels: tandem polyurethane, single and tandem polyurethane greaseable

Vertical 3PzS battery change (T18, T20) Side 2PzS and 3PzS battery change (T18, T20)

Mobile roller trolley (1 and 2 batteries), fixed roller trolley (2 batteries) (T18)

Alternative fork lengths and widths

Load backrest

Basic Modules:

- LFM Access Control PIN

Add-on Modules:

- LFM Usage Analysis

- LFM Impact sensor

Creep speed control (T16, T18)

Proportional speed control (T18)

Cold store protection to -35°C

Automatic battery watering system

Built-in charger

High frequency charger

Other options available on request



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

SERIES 1152

Linde Material Handling

Linde

Safety

Sinergo® interface is implemented on Linde pedestrian pallet trucks. 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

Through Sinergo®, all controls on the ergonomic tiller can be easily operated by either hand. An innovative 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

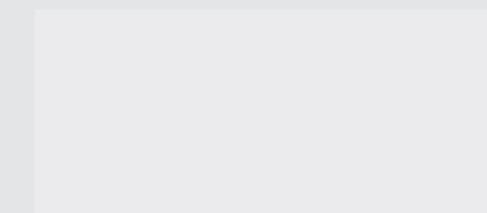
Working station & Display

- Wide, deep storage compartment for shrink wrap, pens, markers etc.
- Strong plastic Exxtral® motor and battery cover last the lifetime of the truck
- Multifunctional display as standard with hourmeter, maintenance indication, battery discharge indicator, fault code indication



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



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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



Batteries and Chargers

- Vertical battery change as standard
- Side battery change on rollers option
- Battery capacities from 150 Ah to 375 Ah
- Built-in 20A charger as option

Chassis & Forks

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

AC motor & Booster effect

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



Maintenance/CAN-bus architecture

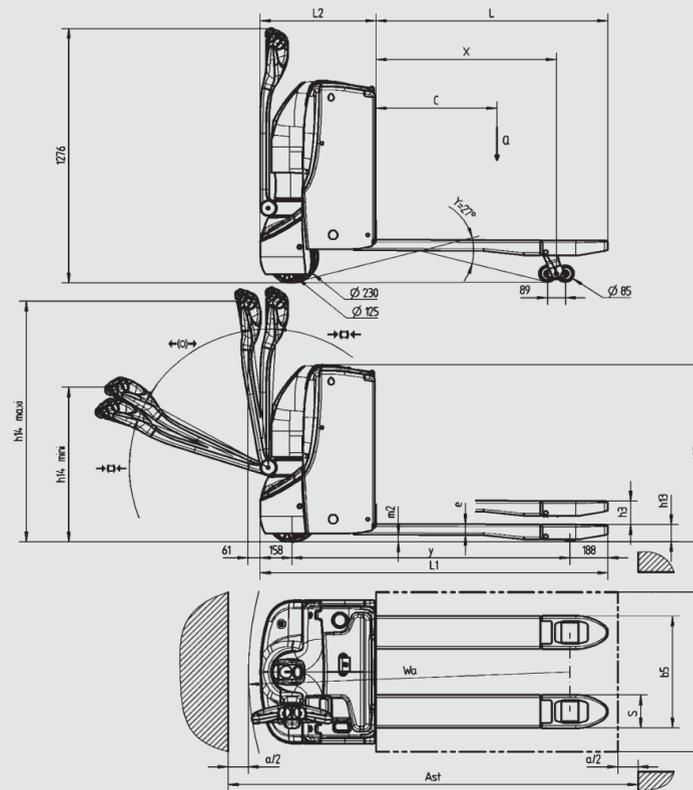
- Zero maintenance, moisture and dust-proof AC motor
- CAN-bus architecture enables fast, easy access to all truck data
- Individually adjustable parameters via diagnostic plug
- Rapid and convenient access to main components via front service panel



Technical Data according to VDI 2198

		LINDE					
		T16	T18	T20			
Characteristics	1.1	Manufacturer	LINDE	LINDE	LINDE		
	1.2	Model designation	T16	T18	T20		
	1.3	Power unit	Battery	Battery	Battery		
	1.4	Operation	Pedestrian	Pedestrian	Pedestrian		
	1.5	Load capacity	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)	876 / 960 ¹⁾	876 / 960 ¹⁾	876 / 960 ¹⁾	
	1.9	Wheelbase	y (mm)	1237 / 1303 ¹⁾	1312 / 1378 ¹⁾	1387 / 1453 ¹⁾	
	Weights	2.1	Service weight	(kg)	421	470	582
2.2		Axle load with load, front/rear	(kg)	684 / 1337	719 / 1551	830 / 1752	
2.3		Axle load without load, front/rear	(kg)	327 / 94	340 / 130	432 / 150	
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		V+P/P ²⁾	V+P/P ²⁾	V+P/P ²⁾	
	3.2	Tyre size, front		Ø 230 x 90	Ø 230 x 90	Ø 230 x 90	
	3.3	Tyre size, rear		Ø 85 x 105 (Ø 85 x 100) ³⁾	Ø 85 x 105 (Ø 85 x 100) ³⁾	Ø 85 x 105 (Ø 85 x 100) ³⁾	
	3.4	Auxiliary wheels (dimensions)		125 x 40	125 x 40	125 x 40	
	3.5	Wheels, number front/rear (x = driven)		1x + 2 / 2 (1x + 2 / 4) ³⁾	1x + 2 / 2 (1x + 2 / 4) ³⁾	1x + 2 / 2 (1x + 2 / 4) ³⁾	
	3.6	Track width, front	b10 (mm)	482	482	482	
Dimensions	3.7	Track width, rear	b11 (mm)	355 / 395 / 515	355 / 395 / 515	355 / 395 / 515	
	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	Fork height, lowered	h13 (mm)	85	85	85	
	4.19	Overall length	l1 (mm)	1650	1725	1800	
	4.20	Length to fork face	l2 (mm)	500	575	650	
	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 / 560 / 680	520 / 560 / 680	520 / 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)	1759 ⁵⁾	1859 ⁵⁾	1911 ⁵⁾	
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	1959 ⁵⁾	2059 ⁵⁾	2111 ⁵⁾	
	4.35	Turning radius	Wa (mm)	1435 / 1515 ¹⁾³⁾	1535 / 1605 ¹⁾³⁾	1587 / 1669 ¹⁾³⁾	
	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)	0.037 / 0.046	0.036 / 0.046	0.039 / 0.053
5.3		Lowering speed, with/without load	(m/s)	0.059 / 0.05	0.059 / 0.05	0.057 / 0.048	
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)	7.6 / 6.5	7.7 / 6.5	8.0 / 6.5	
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 53 15%	(kW)	1	1	1.2	
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		2PzS-B	43 535/ 2PzS	43 535/ 3PzS	
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	24 / 150	24 / 250	24 / 375	
	6.5	Battery weight (+ 5%)	(kg)	157	212	320	
	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))	< 70.0	< 70.0	< 70.0	

1) Forks upraised / lowered
 2) Solid rubber + polyurethane / polyurethane
 3) Figures in parenthesis with tandem load wheels.
 4) min./max.
 5) With creep speed = tiller in vertical position
 6) Including a 200 mm (min.) operating aisle clearance.



Battery Type	Battery Capacity (Ah)	Dimension l2 (mm)	Dimension l1 (mm)	Fork length l (mm)	Turning radius Wa (mm)	Aisle width Pallet 800 x 1200 lengthwise	Aisle width Pallet 1000 x 1200 cross-wise
2 PzS BS	150	500	1650	1150	1415	1939	1889
2 PzS	250	575	1725	1150	1515	2025	1975
3 PzS*	270 - 375	650	1800	1150	1567	-	1860

* not available on T16 model

