

Electric Rider Stand Pallet Truck 2000 kg

Linde



T 20 SF

144

The new Linde T20 SF is ideally designed for fast pallet handling, loading and unloading freight trucks and hauling pallet loads. Owing to its narrow width of 790 mm (less than a Euro pallet), the truck is superbly suited for loading and unloading Euro pallets lengthwise. Enhanced ease of operation is made possible by the new Linde twin-grip steering.

Main features

- Linde Brake Control (LBC), automatic braking on releasing drive switch
- Novel Linde twin-grip handlebars
- Combined advantages of both tiller and steering wheel
- Linde Electric Steering (LES), active power steering with automatic centering for straightahead travel
- Automatic speed reduction when cornering
- Linde-Info-Display (LID)
- Outstanding stability due to four-point support
- 790 mm chassis width
- Linde Digital Control (LDC), programmable microprocessor drive control
- High productivity due to powerful drive motor

Operator compartment

Roomy rider stand for the operator containing convenient storage compartment and document holder. Operator faces forward with forks in direct line of sight, the exemplary position for very

quick and safe load handling cycles. Rider stand makes frequent mounting and dismounting a whole lot pleasanter and ensures clear all-around view. Compared to stand platform models, the Linde T20 SF offers excellent visibility when handling tall loads.

Operation

The advantages of both tiller and steering wheel are united in the new Linde twin-grip handlebars. Extremely convenient feature for steering the truck, controlling travel speed, lifting and lowering the forks, and using the horn when needed. This can be done with either hand, allowing smooth control of operation while driving forward or in reverse. Drive wheel position is indicated by the angle of the handlebars at all times.

Linde-Info-Display (LID)

New multi-functional Linde Info Display (LID): Date, time, battery status, operating hours, service info and warning messages. Precise truck information always guarantees safe and comfortable working conditions.

Active electric power steering

Minimum effort is required to steer the truck on precise course with the new Linde twin-grip handlebars. Position of the drive wheel is continuously monitored by a microprocessor and sensor of the LES system. Direct link between handlebar position and wheel position immediately tells the direction in which the truck is headed. Automatic centering of the handle-

bars keeps the truck on a straight line when accelerating and braking.

Chassis

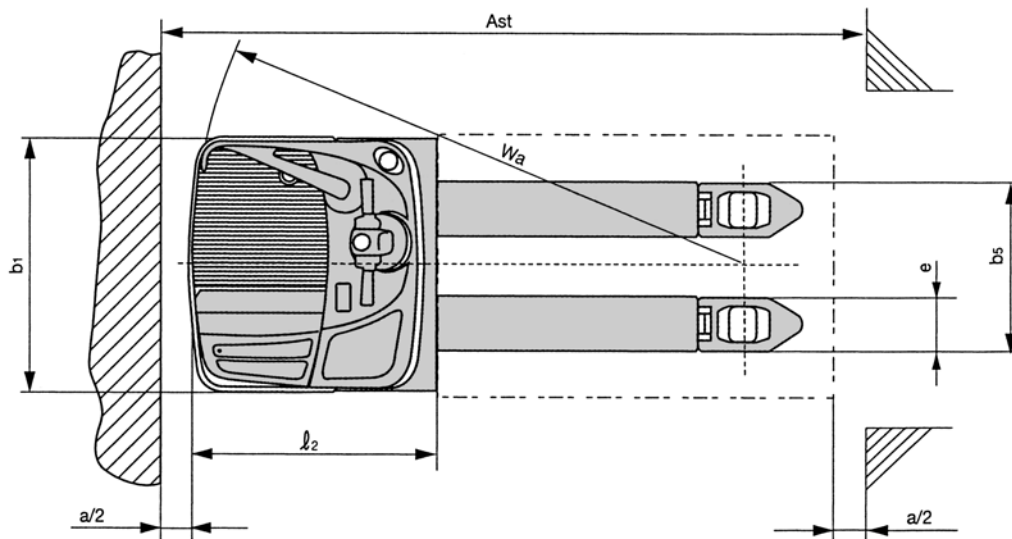
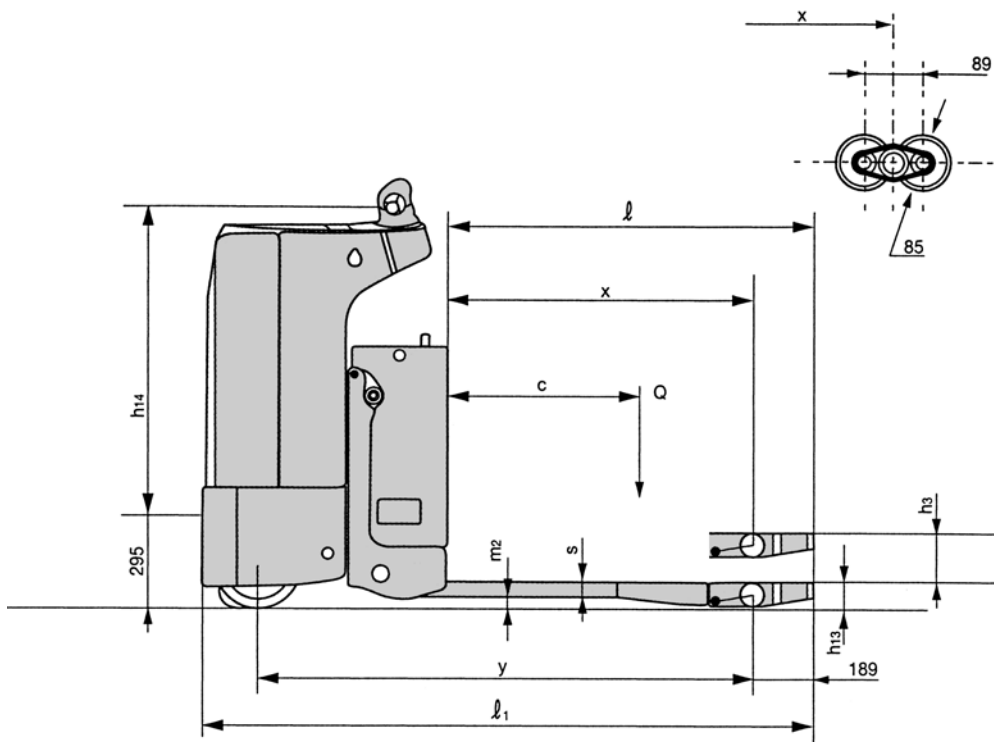
With its width of 790 mm, the T20 SF is specifically designed to work in tight spaces. It has no trouble picking up pallet loads in block storage or crowded against the sides of a freight truck body. Load distance of only 775 mm means that the T20 SF is appreciably shorter than trucks with a rear stand platform, giving a valuable space advantage in loading and unloading areas. Press-formed steel plate construction results in superior rigidity and durability of the chassis, not least of all due to the reduced number of structural components and welds. A low center of gravity adds to stability of the truck in operation. The hinged motor hood provides ready access to all internal components and servicing points.

Drive

Self-cooled 2.0 kW drive motor designed for consistently high performance in heavy-duty service. LDC, the drive control specially developed by Linde for industrial trucks, is based on a programmable MOS-FET microprocessor. It excels by smooth and direct starting, powerful acceleration, exact control of preset travel speed and precise load positioning. All drive control parameters can be customized for defined applications, equivalent to built-in maximum productivity.

Characteristics	1.1	Manufacturer		Linde	
	1.2	Model designation		T 20 SF	
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Battery	
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Stand-on	
	1.5	Load capacity	Q (kg)	2000	
	1.6	Load centre	c (mm)	600	
	1.8	Axle centre to fork face	x (mm)	880/960 ¹⁾	
	1.9	Wheelbase	y (mm)	1564	
Weights	2.1	Service weight	kg	860 ²⁾	
	2.2	Axle load with load, front / rear	kg	1145/1715	
	2.3	Axle load without load, front / rear	kg	650/210	
Wheels and tyres	3.1	Tyres, front / rear (SE = Superelastic, P = Polyurethane)		SE + P/P	
	3.2	Tyre size, front		250 x 105	
	3.3	Tyre size, rear		1 x 85 x 105 (2 x 85 x 80) ³⁾	
	3.4	Auxiliary wheels (dimensions)		2 x 140 x 50	
	3.5	Wheels, number front / rear (x = driven)		1x + 2/2 (1x + 2/4) ³⁾	
	3.6	Track width, front	b ₁₀ (mm)	490	
	3.7	Track width, rear	b ₁₁ (mm)	355	
Dimensions	4.4	Lift	h ₃ (mm)	125	
	4.9	Height of tiller arm in operating position, min./max.	h ₁₄ (mm)	1020	
	4.15	Fork height, lowered	h ₁₃ (mm)	85	
	4.19	Overall length	l ₁ (mm)	1925	
	4.20	Length to fork face	l ₂ (mm)	775	
	4.21	Overall width	b ₁ /b ₂ (mm)	790	
	4.22	Fork dimensions	s/e/l (mm)	55/165/1150	
	4.25	Fork spread	b ₅ (mm)	520 (680)	
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30	
	4.33	Aisle width with pallets 1000 x 1200 across forks	A _{st} (mm)	1975	
	4.34	Aisle width with pallets 800 x 1200 along forks	A _{st} (mm)	2175	
	4.35	Turning radius	W _a (mm)	1657/1735 ¹⁾	
Performance	5.1	Travel speed, with / without load	km/h	8.0/10.0	
	5.2	Lifting speed, with / without load	m/s	0.035/0.055	
	5.3	Lowering speed, with / without load	m/s	0.064/0.062	
	5.7	Climbing ability, with / without load	%	3/14	
	5.8	Maximum climbing ability, with / without load	%	12/24	
	5.10	Service brake		Electromagnetic	
Drive	6.1	Drive motor, 60 minute rating	kW	2.0	
	6.2	Lift motor, 15% rating	kW	1.0	
	6.3	Battery according to IEC		254-2	
	6.4	Battery voltage / rated capacity (5 h)	V/Ah	24/330L	
	6.5	Battery weight (± 5%)	kg	307	
Other	8.1	Type of drive control		LDC Digital Control	
	8.4	Mean noise level at driver's ear	dB (A)	68	

- 1) Forks raised / lowered
- 2) Incl. battery acc. to 6.5
- 3) Figures in brackets: optional



Safety distance $a = 200$ mm

Equipment



Lift system

High-performance lift unit featured for low energy consumption: 1.0 kW high-pressure gear pump, hydraulic tank fitted with filter and pressure relief valve.

Wheels and forks

Rubber-tyred drive wheel as standard. Tandem castor wheel and load wheels (both with string guard) are polyurethane tyred. Forks specially shaped to smoothly enter every regular type of pallet. Cast steel fork tips are each capable of supporting a 2000 kg load without undergoing deformation, which eliminates all risk in use and reduces servicing costs.

Brakes and safety

- Dual braking system:
 - Automatic braking by LBC on releasing drive switch
 - Electromechanical brake applied by pedal or emergency stop button

- Hitting the emergency stop button interrupts all electric circuits and initiates electromagnetic braking
- Travel speed automatically reduced when cornering
- All wheels safely contained within chassis silhouette

Standard equipment

- LES active electric power steering
- Linde-Info-Display (LID)
- LDC programmable electronic drive control
- LBC electronically controlled automatic braking
- Solid rubber drive wheel
- Polyurethane castor wheel
- Single polyurethane load wheels with string guard
- Fork length 1150 mm
- Width across forks 520 mm
- Cold store operation to -10°C
- Battery cable and plug
- Spare parts catalogue, operator manual

Batteries and chargers

- 24 V batteries, 330 to 440 Ah

Options

- Alternative fork lengths and widths
- Load backrest
- Level compensation
- Support for accessories or mobile data terminal
- Clipboard
- Polyurethane or grooved rubber drive wheel
- Tandem polyurethane load wheels with string guard
- Full cold store version (-30°C)
- Hour meter and battery discharge indicator
- Side roll-out battery change
- Battery change stand or trolley

Other options on request.