

Electric Stand-On Pallet Truck 2000 kg

Linde



T 20 S

144

With a width of 790 mm, the Linde T20S stand-on pallet truck is specially designed for loading and unloading lorries. Its high productivity also makes it a very efficient equipment for transferring loads from the storage area to the shipment or reception area.

Main Features

- LDC electronic drive control (Linde Digital Control) with Microprocessor
- Linde-Info-Display (LID)
- Electric steering
- Automatic braking
- Proportional Electromagnetic brake in relation to the carried load
- Optional level compensator

Driver's compartment

The functional driver's compartment combines a low access step, a seat pad and 3 different platform heights.

The sideways stand-on position allows all-round visibility whether the truck is travelling forward or in reverse. All controls are within easy reach, without having to release the handle. This outstanding design suits every operator and makes for easy and safe driving.

Chassis

The chassis construction made of folded steel reduces the number of parts and optimizes the welding, ensuring a higher rigidity and an excellent reliability.

The low centre of gravity provides the truck with excellent stability.

A hinged door gives full access to the technical compartment for easy maintenance.

Transmission

Series wound 2.0 kW highly competitive motor directly mounted on a two stage spur and bevel gearbox with a 1:16.95 reduction ratio. This unit enables a high performance level. The compact gear unit is mounted off-centered on the right and can rotate 180°.

Electric System

The truck is fitted with the advanced 24 V LDC drive control. This MOS-FET controller provides the T20S with exceptionally high acceleration and smooth operation.

Starts in gradients are safe as the LDC prevents the truck from rolling back. Additional power can be obtained when needed, thanks to a booster effect. An automatic counter-current braking is applied when releasing the control butterflies for additional safety.

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.

Wheels and pallet arms

The T20S is fitted with a rubber drive wheel and a polyurethane castor wheel. The polyurethane load wheels are fitted with a shrink-wrap protection.

Each fork tip can withstand 2000 kg without deformation.

Pallet entry – even in closed pallets – is assisted by the profiled shape of the fork ends and an entry skid.

Various fork lengths are available.

Hydraulics and lifting

Compact, high output, low consumption motor-driven pump, including a 1.0 kW motor (rating 15%), a high pressure gear pump, a hydraulic tank with incorporated filter, a lowering mechanism with pressure relief valve.

All stress through the cinematic system is carried by forged steel parts ensuring high reliability.

An optional level compensator ensures constant ground contact of all wheels and enables the truck to be driven sideways on gradients without being unbalanced.

Braking

Three independent braking systems:

- Automatic braking when releasing the butterflies
- Load related electromagnetic brake when releasing the dead man pedal
- Automatic park brake when the driver steps off the truck
- Counter current braking with the LDC electronic drive control.

Safety

- Three independent braking systems
- Short braking distance
- The operator is always protected in the contours of the driver compartment
- Excellent stability thanks to a low center of gravity
- No sharp edges
- Wheels turn within the confines of the chassis
- Check of all potential short-circuits at start-up
- Emergency stop button

LINDE

Pallet truck

Designation to VDI 3586

**Data sheet for
Electric Seated Driver Pallet Truck**

ESU

Abbreviation to

November 2003

Characteristics	1.1	Manufacturer		Linde
	1.2	Model designation		T 20 S
	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 center to fork face	x (mm)	880/960 ¹⁾
	1.9	Wheelbase	y (mm)	1564
	Weight	2.1	Service weight	kg
2.2		Axle load with load, drive side/load side	kg	1145/1715
2.3		Axle load without load, drive side/load side	kg	650/210
Wheels	3.1	Tyres solid rubber (R), contoured solid, pneumatic, polyurethane (P)		R+P/P
	3.2	Tyre size, drive side	mm	Ø 250 x 105
	3.3	Tyre size, load side	mm	Ø 85 x 105 (2xØ 85 x 80) ³⁾
	3.4	Auxiliary wheels (dimensions)		2xØ 140 x 50
	3.5	Wheels, number drive side/load side (x=driven)		1x + 2/2 (1x + 2/4) ³⁾
	3.6	Track width, drive side	b ₁₀ (mm)	490
	3.7	Track width, load side	b ₁₁ (mm)	355
Dimensions	4.4	Lift	h ₃ (mm)	125
	4.8	Seat height	h ₇ (mm)	1020
	4.9	Height of tiller arm in operating position, min/max	h ₁₄ (mm)	-
	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 x 165 x 1150
	4.25	Fork spread, minimum/maximum	b ₅ (mm)	520 (680)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30
	4.33	Aisle width with pallet 1000 x 1200 crosswise	A _{st} (mm)	1975
	4.34	Aisle width with pallet 800 x 1200 lengthwise	A _{st} (mm)	2175
	4.35	Turning radius	W _a (mm)	1657/1735 ¹⁾
Performance	5.1	Travel speed, with/without load	km/h	9.0/12.0
	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 (5h)	V/Ah	24/330
	6.5	Battery weight (± 5%)	kg	307
Misc.	8.1	Type of drive control		LDC with microprocessor
	8.4	Noise level at operator's ear	dB(A)	68

- 1) Forks raised / lowered.
- 2) With battery in line 6.5.
- 3) Figures in brackets with tandem load wheels (option).
- 4) Forks raised.

Equipment



Standard equipment

- Chassis width: 790 mm
- Electric steering
- Linde-Info-Display (LID)
- Forks: length 1150 mm x width across 520 mm
- Rubber drive wheel and polyurethane castor wheel. Single polyurethane load wheels
- LDC drive control
- Combined instrument: hour meter and battery discharge indicator with lift cut-out
- Horn
- Key switch
- Battery cable and plug
- Electromagnetic brake. Automatic counter-current braking and automatic parking brake
- Operator's handbook and spare parts catalogue
- -10°C protection
- Platform and driving logic comply with EC directives

Battery and charger

The T20S is powered by a 24V battery with capacities ranking from 330 Ah to 440 Ah capacity. It can be supplied with a conventional wall-mounted battery charger.

Options

- Alternative fork lengths and widths
- Load backrest
- Polyurethane, non-marking or grooved rubber drive wheel
- Tandem polyurethane load wheels
- Level compensator
- Document support / writing pad
- Additional battery cable and connector
- Battery changing legs, static or on rollers
- Side battery removal
- Supplementary set of documentation
- Cold store protection: -30°C

Other options available on request.