SD 20 Technical Data.

Stand-on double decker high lift pallet truck.

In accordance with VDI guidelines 2198, this specification applies to the standard model only.
Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

Characteristics	1.1	Manufacturer			STILL
	1.2	Manufacturer's model designation			SD 20
	1.3	Power supply (electric, diesel, petrol, gas, mains electric)			electric
	1.4	Type of control (hand, pedestrian, stand-on, rider seated, order picker)			stand-on/rider seated
	1.5	Capacity/load	Q	(kg)	2000[1]
	1.6	Load centre	c	(mm)	600
	1.8	Load distance lowered/raised	x	(mm)	999/916
	1.9	Wheelbase lowered/raised	y	(mm)	1760/1677
Weight	2.1	Weight (inc. battery)		kg	1390
	2.2	Axle loadings laden drive end/load end		kg	1430/1970
	2.3	Axle loadings unladen drive end/load end		kg	1010/380
Wheels tyres	3.1	Tyres			rubber
	3.2	Tyre size drive end		mm	Ø 250 x 100
	3.3	Tyre size load end		mm	4 x Ø 85 x 60
	3.4	Support rollers drive end		mm	2 x Ø 125 x 50
	3.5	Wheels, number (x = drive wheel) drive end/load end			1x/3/4
	3.6	Track width drive end	b_{10}	(mm)	507
	3.7	Track width load end	b_{11}	(mm)	380
Dimensions	4.2	Closed mast height	h_1	(mm)	1485
	4.4	Lift height	h_3	(mm)	1590
	4.5	Height, mast raised	h_4	(mm)	2400
	4.6	Initial lift	h_5	(mm)	120
	4.9	Height of steering wheel	h_{14}	(mm)	1345
	4.15	Height lowered	h_{13}	(mm)	90
	4.19	Overall length	l_1	(mm)	2130
	4.20	Length to front face of forks	l_2	(mm)	930
	4.21	Overall width	b_1	(mm)	796
	4.22	Fork dimensions	s/e/l	(mm)	54/184/1200
	4.24	Fork carriage width	b_3	(mm)	680
	4.25	Overall fork width	b_5	(mm)	564
	4.32	Floor clearance, centre of wheelbase	m_2	(mm)	30
	4.34	Working aisle width with 800 x 1200 pallet lengthwise	A_{st}	(mm)	2330
	4.35	Outer turning radius	W_a	(mm)	1930
Performance	5.1	Speed laden/unladen		km/h	7/9
	5.2	Lifting time laden/unladen		m/s	0.15/0.23
	5.3	Lowering time laden/unladen		m/s	0.23/0.18
	5.8	Gradeability laden/unladen		%	8/12
	5.9	Acceleration time (over 10 m) laden/unladen		s	7.3/5.6
	5.10	Brakes			electric
Electric Motors	6.1	Drive motor, rating S2 = 60 min.		kW	2.0
	6.2	Hoist motor, rating at S3 = 15%		kW	2.0
	6.3	Battery to IEC 254-2; A, B, C, no			IEC 254-2; A
	6.4	Battery voltage, capacity K_5		V/AH	24/240 L
	6.5	Battery weight +/- 5 % (dependent of manufacturer)		kg	370
	6.6	Energy consumption according to VDI cycle		kWh/h	1.1
Other	8.1	Drive control			electronic
	8.4	Noise peak at operator's ears		dB (A)	<70

1) Capacity: main lift = 1000 kg, initial lift = 1000 kg main and initial lift together = 2000 kg

The STILL SD 20.

Stand-on double decker high lift pallet truck designed for a high turn round of goods in double decker loading, when loading and unloading lorries, and also for horizontal transportation of goods up to 2000 kg. With compact length and overall width of less than 800 mm, normal commercial pallets can be handled lengthways or crossways. The SD is also very flexible when used for order picking, for servicing racking or as a working/lifting table.

Driver's compartment.

- The driver's standing compartment is fitted with a bucket seat to allow the driver to be seated if required.
- A high level of driving comfort is achieved with the padded interior plus integral storage facilities for working papers and utensils.
- Gas-damped non-slip footplate and the seat can be adjusted for height by up to 180 mm. Adjustment is smooth and easily achieved by a simple push of a button.
- The controls fall easily to hand without changing grip and a clear layout avoids confusion. Drive direction and travel speed are controlled by a butterfly switch with integral buttons for hoist and lower functions.
- Footrests on the right of the footwell prevent fatigue during long horizontal transport runs.
- Standard display gives battery discharge, operating hours and fault code read-outs.

Chassis.

- Very good all round vision and a clear view onto the fork tips thanks to the new rounded chassis contours.
- Robust, torsionally rigid steel frame consists of drive section and load lifting section.
- A patented hinged section gives ideal access to the electrical components. Ease of servicing reduces maintenance costs.
- Automatic level compensation for the load wheels makes for safer transport.
- Good weight distribution and reduced point loading due to the 4-wheel principle - ideal for upper storey use.
- Patented friction aids on the fork tips allow non-skid pallet handling.

Steering.

- Full electric steering for 180° lock-to-lock movement without kickback. Steering wheel diameter of only 120 mm and 4 ½ turns guarantees fast, effortless steering.
- The steer motor is protected against shocks from uneven floors by a safety coupling.
- Automatic reduction of speed when driving round corners, thereby ensuring a high level of safety through optimal driving characteristics.
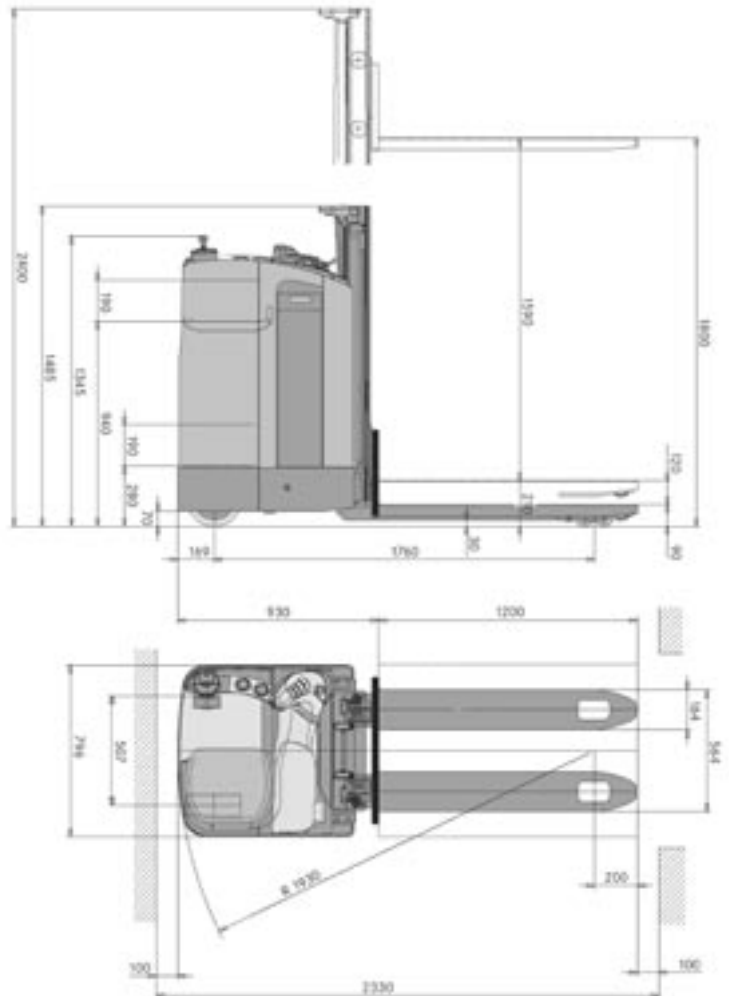
Drive.

- A robust 2.0 kW shunt wound drive motor provides quick acceleration and powerful ramp travel. Efficient energy utilisation due to the spur and bevel gear transmission.

Hydraulics.

- The hydraulic unit consists of a powerful, high efficiency 2.0 kW pump motor actuated via push buttons in the operating panel.
- Particularly sensitive control is achieved with the proportional valve technology fitted as standard for the main hoist.
- Automatic shut-off of the initial lift is achieved by an overload protection for the hydraulic pump - saving energy and reducing noise.

Brakes.

- Two independent braking systems are fitted.
- Generator braking activated by releasing the butterfly switch or changing drive direction guarantees soft braking and protects the brake linings. During braking the drive unit acts as a generator and puts the recovered energy back into the battery.
- An electromagnetic brake acts as a parking and emergency brake.
- Starting on gradients is possible without roll-back.
- Automatic brake monitoring is achieved by means of a load sensor, which regulates the braking current to suit the load.

Battery.

- For multi-shift use the battery is changed using the patented battery free lift and a roller track at the side.

Auxiliary equipment.

- Various drive wheels
- Wheel position indicator
- Data terminal/Scanner

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