SD 20

SD 20 Technical Data

Stand on high lift double decker pallet truck

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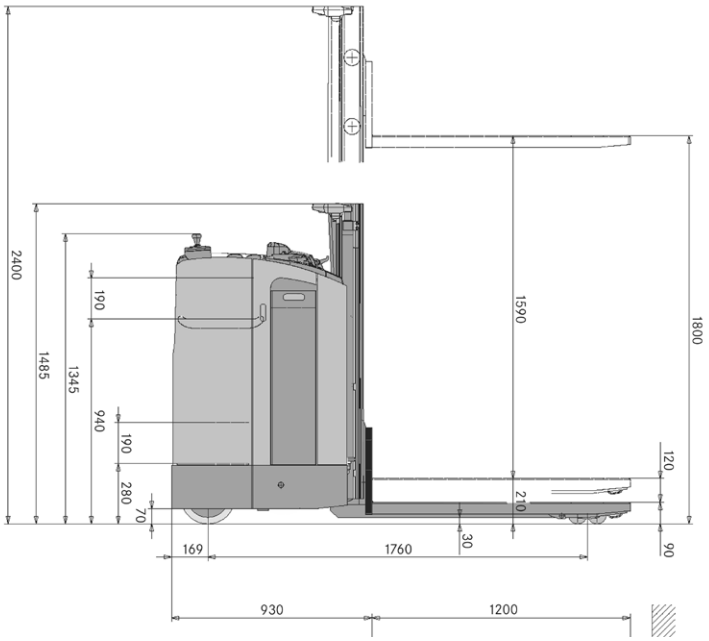
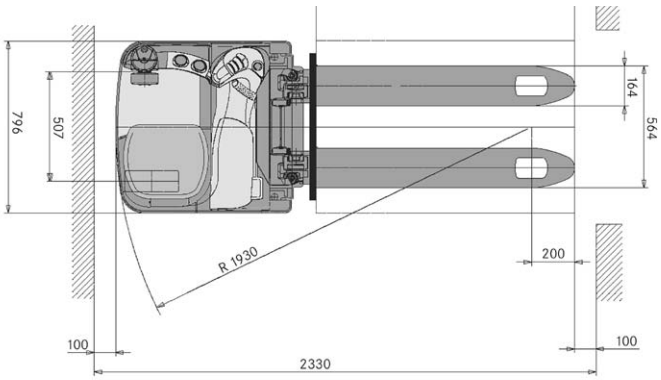
In accordance with VDI guidelines 2198, this specification applies to the standard model only.
Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

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 (incl. 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 long		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
	6.4	Battery voltage, capacity K_5			V/Ah	24/420
	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 high lift double decker pallet truck designed for a high turnaround of goods in doubke 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 4½ 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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