

Pedestrian stacker truck 2.0 ton

S300 series
S320D
S320DN



Pedestrian stacker Double stacking

IDENTIFICATION

1.1	Manufacturer			CESAB	CESAB
1.2	Model			S320D	S320DN
1.3	Drive			Electric	Electric
1.4	Operator type			Stand on/pedestrian	Stand on/pedestrian
1.5	Load capacity/rated load	Q	kg	1000	1000
	Double stacking capacity – fork/support arm capacity	Q	kg	1000 + 1000	800 + 1200
1.6	Load centre	c	mm	600	600
1.8	Load distance, centre of drive axle to fork raised support arms	x	mm	961	849
	lowered support arms	x	mm	992	880
1.9	Wheelbase raised support arms	y	mm	1708	1608
	lowered support arms	y	mm	1739	1639

WEIGHT

2.1	Service weight incl. battery		kg	1243	1243
2.2	Axle load, with load, drive/castor/fork wheel		kg	880/495/1868	830/545/1868
2.3	Axle load, without load, drive/castor/fork wheel		kg	440/461/342	420/481/342

WHEELS

3.1	Drive/castor/fork wheel			Polyurethane	Polyurethane
3.2	Wheel size, front		mm	Ø 230	Ø 230
3.3	Wheel size, rear		mm	Ø 85	Ø 85
3.4	Additional wheel size		mm	Ø 125	Ø 125
3.5	Wheels, number front/rear (x = driven wheels)			1x+2/4	1x+2/4
3.6	Track width, front	b ₁₀	mm	560	498
3.7	Track width, rear	b ₁₁	mm	390	390

DIMENSIONS

4.2	Height, mast lowered	h ₁	mm	1793 *)	1593 *)
4.3	Free lift	h ₂	mm	1356 *)	172 *)
4.4	Lift	h ₃	mm	2410 *)	2010 *)
	Lift height	h ₂₃	mm	2500 *)	2100 *)
4.5	Height, mast extended	h ₄	mm	3018 *)	2525 *)
4.6	Initial Lift	h ₅	mm	120	120
4.8	Stand height	h ₇	mm	190	190
4.9	Height of tiller in drive position, min./max. highest setting	h ₁₄	mm	1201/1413	1201/1413
	lowest setting	h ₁₄	mm	1101/1313	1101/1313
4.15	Height, fork lowered	h ₁₃	mm	90	90
4.19	Overall length platform up	l ₁	mm	2165	2127
	platform down	l ₁	mm	2615	2577
4.20	Length to face of forks platform up	l ₂	mm	1015	977
	platform down	l ₂	mm	1465	1427
4.21	Overall width	b ₁ /b ₂	mm	790/—	748/—
4.22	Fork dimensions	s/e/l	mm	70/180/1200	70/180/1200
4.25	Width over forks	b ₅	mm	570	570
4.32	Ground clearance, center of wheelbase	m ₂	mm	19,5	19,5
4.33	Aisle width for pallets 1000x1200 crossways platform up	A _{st}	mm	2783	2735
	platform down	A _{st}	mm	3252	3128
4.34	Aisle width for pallets 800x1200 lengthwise platform up	A _{st}	mm	2620	2530
	platform down	A _{st}	mm	3089	2965
4.35	Turning radius platform up	W _a	mm	1954	1864
	platform down	W _a	mm	2423	2299

PERFORMANCE DATA

5.1	Travel speed, with/without load		km/h	9,0/10,0	9,0/10,0
5.2	Lift speed, with/without load		m/s	0,18/0,33	0,15/0,27
5.3	Lowering speed, with/without load		m/s	0,45/0,45	0,45/0,35
5.8	Max. gradeability, with/without load ¹⁾		%	8/12	8/12
5.9	Acceleration time (over 10 m)		s	5,6	-
5.10	Service brake			Electromagnetic	Electromagnetic

ELECTRIC MOTOR

6.1	Drive motor rating (S2 60min)	kW	2,5	2,5
6.2	Lift motor rating (S3 15%)	kW	3,0	2,2
6.4	Battery voltage, nominal capacity k_s	V/Ah	24/300	24/300
6.5	Battery weight	kg	195-270	195-270
6.6	Energy consumption according to VDI cycle	kWh/h	0,88	0,75
	Energy consumption according to EN 16796	kWh/h	0,68	0,58

OTHERS

8.1	Type of drive control	Variable AC	Variable AC
8.4	Sound level at the driver's ear according to EN 12053	dB (A) 65	63

1) Measured according to company standard. *) Further alternatives are available and will produce other values. Data is based on standard configurations: $h_{23} = 2500$ mm (S320D) Duplex HiLo mast and 2100 mm (S320DN) Duplex Tele Panoramic View mast. All data are based on table configuration. Other configurations may give other values. Truck performance and dimensions are nominal and subject to tolerances. CESAB Material Handling products and specifications are subject to change without notice.

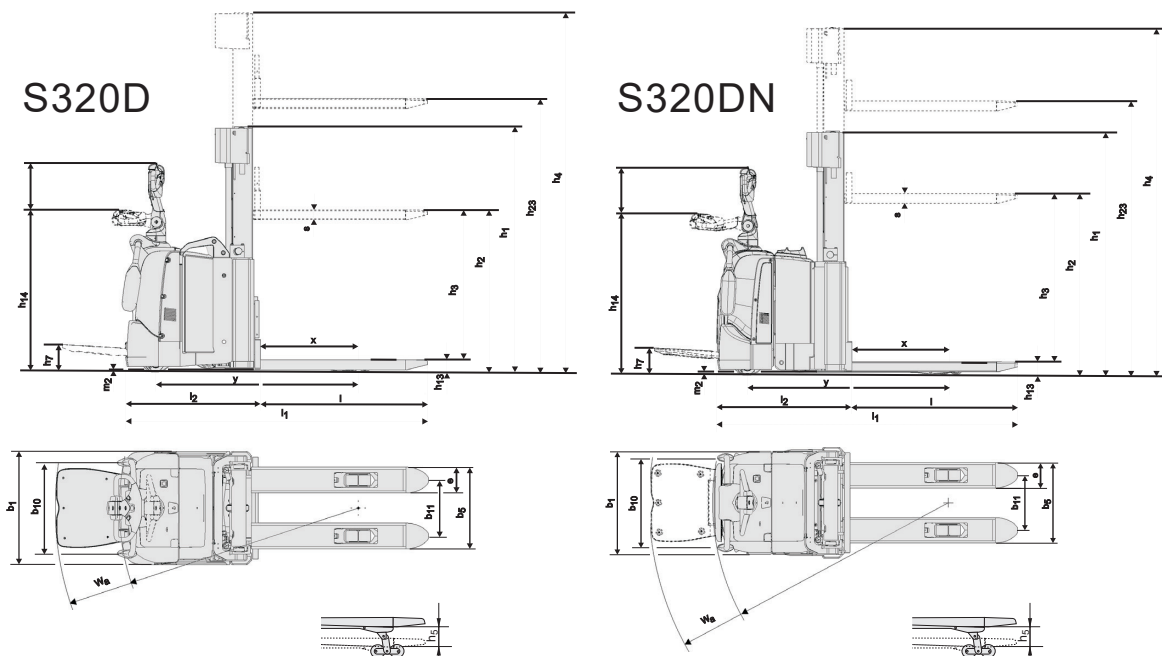
Battery dependent dimensions

DIMENSIONS	Battery		S320D				S320DN				
			Lift out		Sideways		Lift out		Sideways		
			S	L*	S	L*	S	M	S	M	
1.9	Wheelbase	y	mm	1708	1805	1708	1805	1608	1653	1608	1653
	raised support arms	y	mm	1739	1836	1739	1836	1639	1687	1639	1687
	lowered support arms	y	mm	1739	1836	1739	1836	1639	1687	1639	1687
4.19	Overall length	l_1	mm	2165	2262	2165	2262	2127	2175	2127	2175
	platform up	l_1	mm	2165	2262	2165	2262	2127	2175	2127	2175
	platform down	l_1	mm	2615	2712	2615	2712	2577	2625	2577	2625
4.20	Length to face of forks	l_2	mm	1015	1112	1015	1112	977	1025	977	1025
	platform up	l_2	mm	1015	1112	1015	1112	977	1025	977	1025
	platform down	l_2	mm	1465	1562	1465	1562	1427	1475	1427	1475
4.33	Aisle width for pallets 1000x1200 crossways	A_{st}	mm	2783	2880	2783	2880	2735	2783	2735	2783
	platform up	A_{st}	mm	2783	2880	2783	2880	2735	2783	2735	2783
	platform down	A_{st}	mm	3252	3349	3252	3349	3128	3177	3128	3177
4.34	Aisle width for pallets 800x1200 lengthways	A_{st}	mm	2620	2717	2620	2717	2530	2578	2530	2578
	platform up	A_{st}	mm	2620	2717	2620	2717	2530	2578	2530	2578
	platform down	A_{st}	mm	3089	3186	3089	3186	2965	3014	2965	3014
4.35	Turning radius	W_a	mm	1954	2051	1954	2051	1864	1912	1864	1912
	platform up	W_a	mm	1954	2051	1954	2051	1864	1912	1864	1912
	platform down	W_a	mm	2423	2520	2423	2520	2299	2348	2299	2348
6.4	Load centre	V/Ah		24/300	24/500	24/300	24/500	24/300	24/400	24/300	24/400
6.5	Load centre	kg		195-310	345-405	195-310	345-405	195-310	345-405	195-310	345-405

* DIN battery will give same truck dimensions as for the large battery

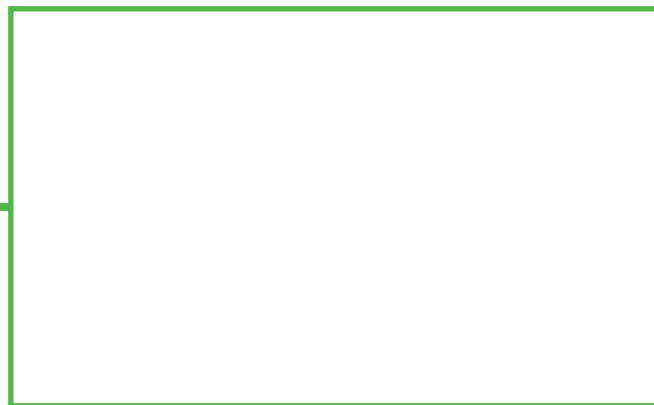
Mast dimensions S320D/DN

S320D/DN			Duplex Tele Panoramic View		Duplex HiLo		
h_{23}	Lift height($h_{13} + h_3$)	mm	1600	1750	1900	2100	2500
h_3	Lift	mm	1510	1660	1810	2010	2410
h_1	Height, mast lowered	mm	1343	1418	1493	1593	1793
h_4	Height, mast extended	mm	2118	2268	2408	2618	3018
h_2	Free lift	mm	172	172	172	172	1356



Truck features

- CESAB Powertrak traction system
- Optimized Truck Performance
- Fingertip controls
- Electronic braking system
- Electronic speed control
- Operator safety
- Storage compartments
- Automatic switch-off
- Programmable performance
- Easy access for maintenance
- Sensilift
- Hydraulic oil for low temperatures (option)



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