

CESAB S300 1.35 - 1.6 tonne

Powered Stacker Truck



Truck Specifications



CESAB

CESAB S314S - S316 - S316L Truck Specifications

CHARACTERISTICS			Straddle Support Arms		Elevating Support Arms	
1.1	Manufacturer		CESAB	CESAB	CESAB	CESAB
1.2	Model		S314S	S316	S316L	S316L
1.3	Drive		Electric	Electric	Electric	Electric
1.4	Operator type		Pedestrian	Pedestrian	Pedestrian	Pedestrian
1.5	Load capacity/rated load	Q [kg]	1350	1600	1600	1600
	Support arm capacity	Q [kg]	-	-	2000	2000
1.6	Load centre	c [mm]	600	600	600	600
1.8	Load distance, centre of support arm wheel to face of forks	x [mm]	697	786	725	725
1.9	Wheelbase	y [mm]	1330	1440	1421	1421
WEIGHT						
2.1	Service weight excluding battery	[kg]	1140	1220	1260	1260
2.2	Axle load, with load, drive/castor/support arm wheel	[kg]	530/20/870	390/640/410	390/660/430	390/660/430
2.3	Axle load, without load, drive/castor/support arm wheel	[kg]	390/335/250	620/610/1810	620/630/1830	620/630/1830
WHEELS						
3.1	Drive/support arm wheel		Powerfriction*/Vulkollan/Vulkollan	Powerfriction*/Vulkollan/Vulkollan	Powerfriction*/Vulkollan/Vulkollan	Powerfriction*/Vulkollan/Vulkollan
3.2	Wheel size, front	[mm]	Ø 215x70	Ø215x70	Ø215x70	Ø215x70
3.3	Wheel size, rear	[mm]	Ø 140x60*	Ø85x75	Ø85x75	Ø85x75
3.4	Additional wheels (dimensions)	[mm]	Ø 125x50	Ø125x50	Ø125x50	Ø125x50
3.5	Wheels, number front/rear (x=driven wheels)		1x+2/2	1x+2/4	1x+2/4	1x+2/4
3.6	Track width front			388	388	388
3.7	Track width, rear	b ₁₁ [mm]	985-1385	390	390	390
DIMENSIONS						
4.2	Height, mast lowered	h ₁ [mm]	1680*	2645*	2645*	2645*
4.3	Free lift	h ₂ [mm]	1160*	2140*	2140*	2140*
4.4	Lift	h ₃ [mm]	3290*	4060*	4060*	4060*
	Lift height	h ₂₃ [mm]	3350*	4150*	4150*	4150*
4.5	Height, mast extended	h ₄ [mm]	3875*	4700*	4700*	4700*
4.6	Initial lift	h ₅ [mm]	-	-	120	120
4.8	Stand height	h ₇ [mm]	150	150	150	150
4.9	Height of tiller in neutral position	h ₁₄ [mm]	1435	1435	1435	1435
4.10	Height of support arm	h ₁₀ [mm]	140			
4.15	Height, fork lowered	h ₁₃ [mm]	60	90	90	90
4.19	Overall length	l ₁ [mm]	2090	2057	2098	2098
4.20	Length to face of forks	l ₂ [mm]	940	907	948	948
4.21	Overall width	b ₁ /b ₂ [mm]	850/1070-1470	790*	790*	790*
4.22	Fork dimensions	s/e/l [mm]	40/100/1150*	70/180/1150*	70/180/1150*	70/180/1150*
4.24	Fork-carriage width	b ₃ [mm]	840	750	750	750
4.25	Width over forks	b ₅ [mm]	260-900	570*	570	570
4.26	Distance between support arms	b ₄ [mm]	900-1300			
4.31	Ground clearance, with load, below mast	m ₁ [mm]	32	24	50	50
4.32	Ground clearance, centre of wheelbase	m ₂ [mm]	40	38	38	38
4.33	Aisle width for pallets 1000x1200 crossways	A _{st} [mm]	2475	2553	2581	2581
4.34	Aisle width for pallets 800x1200 lengthways	A _{st} [mm]	2446	2492	2520	2520
4.35	Turning radius	W _a [mm]	1603	1716	1744	1744
PERFORMANCE DATA						
5.1	Travel speed, with/without load	[km/h]	6.8/8.0*	7/8*	7/8*	7/8*
5.2	Lift speed, with/without load	[m/s]	0.19/0.29	0.14/0.25	0.14/0.25	0.14/0.25
5.3	Lowering speed, with/without load	[m/s]	0.55/0.40	0.41/0.25	0.41/0.25	0.41/0.25
5.8	Max. gradeability, with/without load	[%]	10/12 ¹⁾	10/12 ¹⁾	10/12 ¹⁾	10/12 ¹⁾
5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic
ELECTRIC MOTOR						
6.1	Drive motor rating S2 60 min	[kW]	1,4	1.7	1.7	1.7
6.2	Lift motor rating at S3 20%	[kW]	3,1 ²⁾	3.0 ³⁾	3.0 ³⁾	3.0 ³⁾
6.4	Battery voltage/nominal capacity K _s	[V/Ah]	24/258*	24/258*	24/258*	24/258*
6.5	Battery weight, min.	[kg]	200	200	200	200
OTHERS						
8.1	Type of drive control		CESAB Drive Control	CESAB Drive Control	CESAB Drive Control	CESAB Drive Control

¹⁾ Measured according to company standard

²⁾ S3 15%

³⁾ S3 11%

^{*)} Further alternatives are available and will produce other values.

Data is based on standard configurations: Small battery compartment h₂₃ = 3350 mm Triplex Freelif mast (S314S),

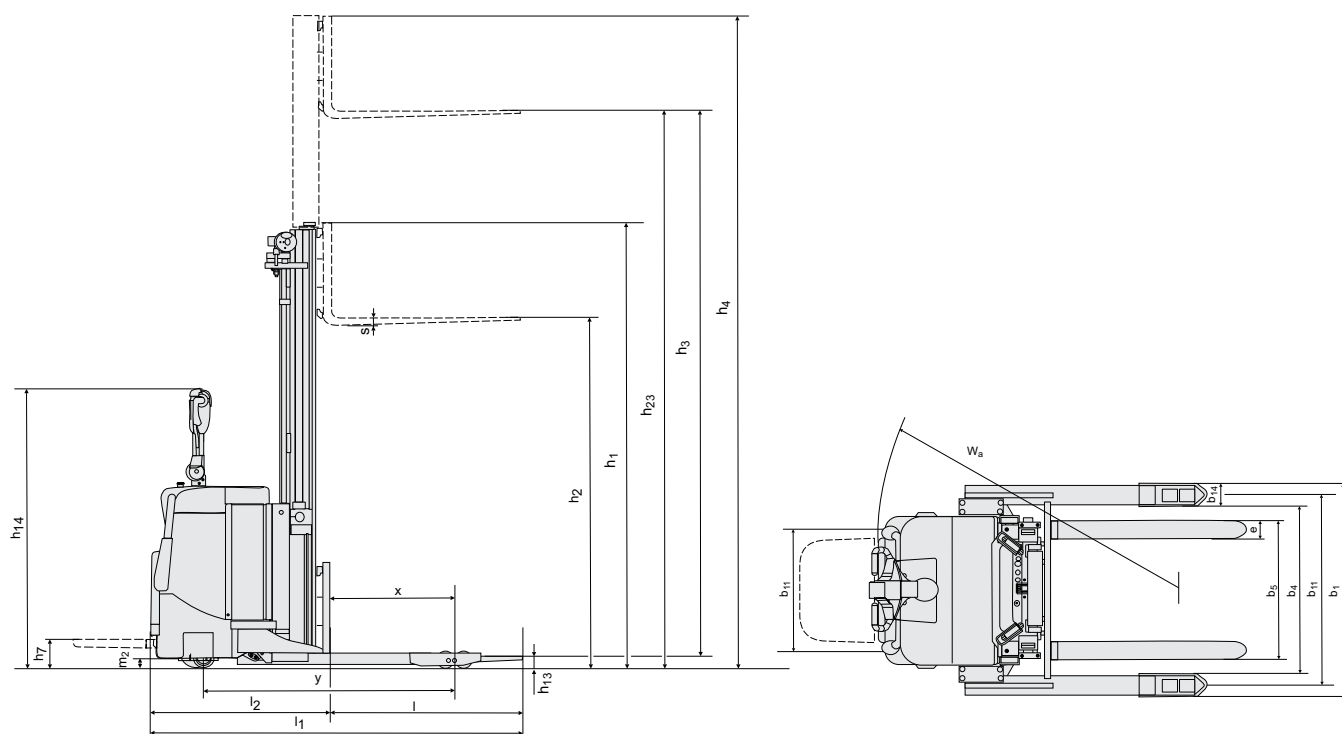
h₂₃ = 4150 mm Duplex Freelif mast (S316 & S316L)

Truck performance and dimensions are nominal and subject to tolerances.

Products and specifications are subject to change without notice.



CESAB S314S Dimensional Drawings



Availability and specifications are determined regionally and are subject to change without notice. Please consult your authorised CESAB distributor for further details. P&B-0510 S300/S1.0/MAY10.

Battery compartments

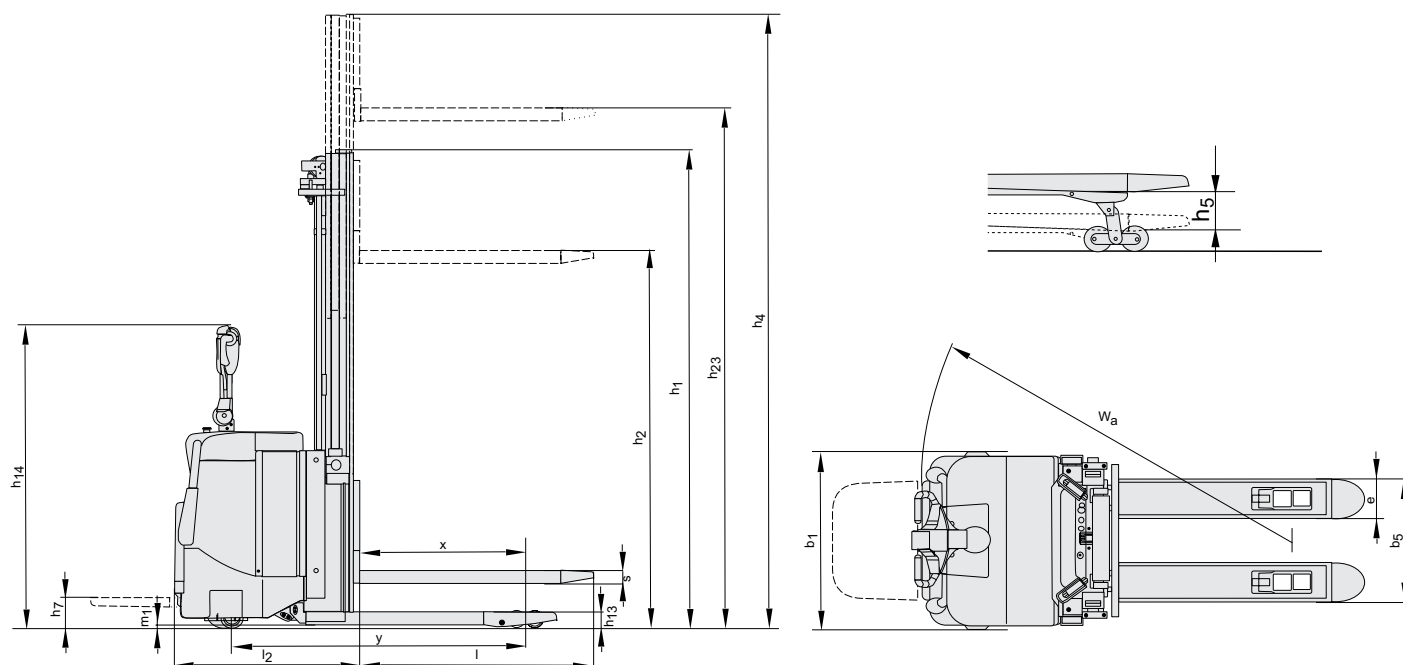
				S314S	
Battery compartment				Small	Large
1.9	Wheelbase	y	[mm]	1330	1398
4.20	Length to face of forks	without platform	l_2	910	978
		platform up/down	l_2	940/1367	1008/1435
4.33	Aisle width for pallets 1000x1200 crossways	without platform	A_{st}	2447	2510
		platform up/down	A_{st}	2475/2902	2539/2968
4.34	Aisle width for pallets 800x1200 lengthways	without platform	A_{st}	2418	2481
		platform up/down	A_{st}	2446/2873	2510/2939
4.35	Turning radius	without platform	W_d	1575	1638
		platform up/down	W_d	1603/2030	1667/2096
6.4	Battery voltage, nominal capacity K_s		[V/Ah]	24/258	24/425
6.5	Battery weight, min.-max.		[kg]	200-250	300-370

Mast Specifications

S314S			Duplex Tele			Duplex Freelift					Triplex Freelift					
h_{23}	Lift height ($h_{13}+h_3$)	[mm]	2350	2800	3350	2350	2900	3350	3750	4150	3350	3750	4150	4500	4800	5400
h_3	Lift	[mm]	2290	2740	3290	2290	2840	3290	3690	4090	3290	3690	4090	4440	4740	5340
h_1	Height, mast lowered	[mm]	1710	1935	2210	1710	1985	2210	2420	2620	1680	1815	1950	2065	2165	2365
h_2	Free lift, ground to top of forks	[mm]	—	—	—	1195	1470	1695	1895	2095	1160	1295	1430	1545	1645	1845
h_4	Height, mast extended	[mm]	2870	3320	3870	2870	3420	3870	4280	4680	3875	4275	4675	5025	5325	5925



CESAB S316 - S316L Dimensional Drawings



Battery compartments

			S316		S316L	
Battery compartment			Small	Large	Small	Large
1.9	Wheelbase	y [mm]	1440	1538	1421	1519
4.20	Length to face of forks	without platform l_2 [mm]	877	975	918	1016
		platform up/down l_2 [mm]	907/1334	1005/1432	948/1375	1046/1473
4.33	Aisle width for pallets 1000x1200 crossways	without platform A_{st} [mm]	2523	2617	2574	2667
		platform up/down A_{st} [mm]	2553/2980	2647/3077	2604/3031	2698/3127
4.34	Aisle width for pallets 800x1200 lengthways	without platform A_{st} [mm]	2462	2556	2535	2628
		platform up/down A_{st} [mm]	2492/2919	2586/3016	2565/2992	2659/3088
4.35	Turning radius	without platform W_a [mm]	1686	1780	1714	1807
		platform up/down W_a [mm]	1716/2143	1810/2240	1744/2171	1838/2267
6.4	Battery voltage, nominal capacity K_s	[V/Ah]	24/258	24/425	24/258	24/425
6.5	Battery weight, min.-max.	[kg]	200-250	300-370	200-250	300-370

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Mast Specifications

				Duplex Tele					Duplex Freelift					Triplex Freelift					
	h_{23}	Lift height ($h_{13}+h_y$)	[mm]	2350	2900	3350	3750	4150	2350	2900	3350	3750	4150	3350	3750	4150	4400	4800	5400
	h_3	Lift	[mm]	2260	2810	3260	3660	4060	2260	2810	3260	3660	4060	3260	3660	4060	4310	4710	5310
S316	h_1	Height, mast lowered	[mm]	1745	2020	2245	2445	2645	1745	2020	2245	2445	2645	1740	1875	2010	2075	2205	2405
	h_2	Free lift, ground to top of forks	[mm]	—	—	—	—	—	1240	1515	1740	1940	2140	1114	1248	1382	1465	1598	1798
	h_4	Height, mast extended	[mm]	2900	3450	3900	4300	4700	2900	3450	3900	4300	4700	4005	4405	4805	5055	5455	6055
S316L	h_1	Height, mast lowered	[mm]	1745	2020	2245	2445	2645	1745	2020	2245	2445	2645	1740	1875	2010	2075	2205	2405
	h_2	Free lift, ground to top of forks	[mm]	—	—	—	—	—	1240	1515	1740	1940	2140	1114	1248	1382	1465	1598	1798
	h_4	Height, mast extended	[mm]	2900	3450	3900	4300	4700	2900	3450	3900	4300	4700	4005	4405	4805	5055	5455	6055

