

Autopilot stacker truck 1.25 ton



BT staxio
AUTOPILOT
SAI125CB



Autopilot stacker truck

Specifications					SAI125CB (3,7 m Triplex Hi-Lo)	SAI125CB (5,4 m Triplex Hi-Lo)
Identification	1.1	Manufacturer			Toyota	Toyota
	1.2	Model			SAI125CB	SAI125CB
	1.3	Drive			Electric	Electric
	1.4	Operator type			Automatic/Pedestrian	Automatic/Pedestrian
	1.5	Load capacity/rated load	Q	kg	1250	1250
	1.6	Load centre	c	mm	650	650
	1.8	Load distance, centre of support arm wheel to face of forks	x	mm	115	115
	1.9	Wheelbase	y	mm	979	979
Weight	2.1	Service weight incl battery		kg	3300	3415
	2.2	Axle load, with load: Drive/Support arm wheel		kg	699/3851	709/3956
	2.3	Axle load, without load: Drive/Support arm wheel		kg	1676/1624	1686/1729
Wheels	3.1	Drive/Support arm wheel			Besthane®/Pevotec®	Besthane®/Pevotec®
	3.2	Wheel size, front		mm	Ø 250x92	Ø 250x92
	3.3	Wheel size, rear		mm	Ø 230x92	Ø 230x92
	3.5	Wheels, number front/rear (x = driven wheels)			1x+2	1x+2
	3.6	Distance between wheels	b ₄	mm	691	691
	3.7	Track width, rear	b ₁₁	mm	783	783
Dimensions	4.2	Height, mast lowered	h ₁	mm	1802	2368
	4.3	Free lift	h ₂	mm	1238	1804
	4.4	Lift movement	h ₃	mm	3660	5358
		Lift height	h ₂₃	mm	3700 ¹⁾	5400 ¹⁾
	4.5	Height, mast extended	h ₄	mm	4224	5922
	4.9	Height of tiller in drive position	h ₁₄	mm	1150	1150
		Height with scanner	h ₂₀	mm	2430/2750/2970	2430/2750/2970
		Height scanner eye	h ₂₁	mm	2412/2732/2952	2412/2732/2952
	4.15	Height, fork lowered, standard	h ₁₃	mm	55	55
	4.15	Height, fork lowered, fork tip stopping device	h ₁₃	mm	85	85
	4.19	Overall length	l ₁	mm	2621 ²⁾	2621 ²⁾
	4.19	Overall length, fork tip stopping device	l ₁	mm	2663 ²⁾	2663 ²⁾
	4.20	Length to face of forks	l ₂	mm	1371	1371
	4.21	Overall width	b ₁	mm	969	969
	4.22	Fork dimensions	s/e	mm	40/100	40/100
		Fork dimensions with safety bumper	s/e	mm	70/62	70/162
		Fork length	l	mm	1250 ²⁾	1250 ²⁾
	4.25	Width over forks	b ₅	mm	450/500/570/620	450/500/570/620
		Width over forks with safety bumper	b ₅	mm	452/502/572/662	452/502/572/662
	4.26	Distance between support arms	b ₄	mm	665	665
	4.31	Ground clearance, with load, below sensors	m ₁	mm	39	39
	4.32	Ground clearance, centre of wheelbase	m ₂	mm	33	33
	4.35	Turning radius	W _a	mm	1321	1321
Performance data	5.1	Travel speed, drive wheel/fork direction, maintenance mode		km/h	2,5/2,5	2,5/2,5
	5.1.1	Travel speed, with/without load, automatic mode, drive wheel direction		km/h	7,9/7,9	7,9/7,9
	5.1.2	Travel speed, with/without load, automatic mode, fork direction with PPS		km/h	4,7/4,7	4,7/4,7
	5.1.3	Travel speed, with/without load, automatic mode, both directions without PPS		km/h	1,1/1,1	1,1/1,1
	5.2	Lift speed, with/without load		m/s	0,17/ 0,31	0,17/ 0,31
	5.3	Lowering speed, with/without load		m/s	0,40/0,44	0,40/0,44
	5.8	Max. gradeability, with/without load		%	2/5	2/5
	5.10	Service brake			Electromagnetic	Electromagnetic
Electric motor	6.1	Drive motor rating S2 60 min		kW	2,5	2,5
	6.2	Lift motor rating at S3 10%		kW	3	3
	6.4	Battery voltage/nominal capacity K _s Li-Ion		V/Ah	24/300	24/300
	6.5	Battery weight		kg	260	260
Others	8.1	Type of drive control			Variable AC	Variable AC
	8.4	Sound level at the driver's ear according to EN 12 053		dB (A)	<70	<70
		Safety of laser products			Class 1 (EC 60825-1)	Class 1 (EC 60825-1)
		Height from floor to centre of autocharging plate		mm	360	360
		Distance centre of fork wheel to centre of autocharging plate	X _{cp}	mm	642	642
		Distance centre of machine to face of autocharging plate	Y _{cp}	mm	471	471

1) Max height of load station in automode is h₂₃ - 200mm

2) Dependent of fork length

All data are based on table configuration. Other configurations may give other values.

Truck performance and dimensions are nominal and subject to tolerances.

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Fork length dependent dimensions

Dimensions				SAI125CB					
	Fork Length	l	mm	650	850	1050	1250	1350	1400
4.19	Overall length	l_1	mm	2021	2221	2421	2621	2721	2771
4.19	Overall length, fork tip stopping device	l_1	mm	2063	2263	2463	2663	2763	2813

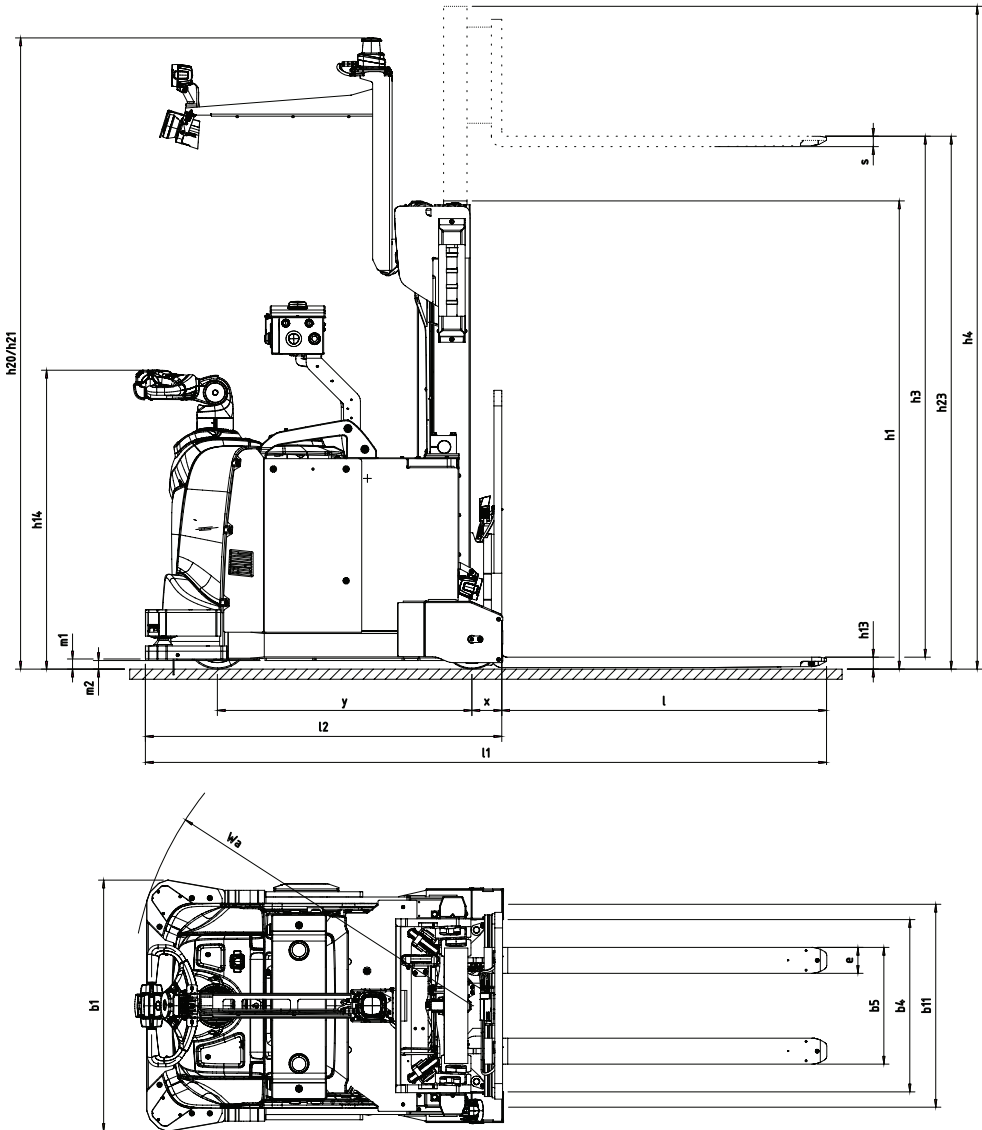
Aisle width Auto mode

A _{st} Rotate on point. PPS muted							
Load length	mm	600	800	1000	1200	1200	1200
Load width	mm	800	1200	1200	800	1000	1200
	mm	2404	2677	2851	2963	2994	3032

Lift capacities

Actual Capacity (kg)

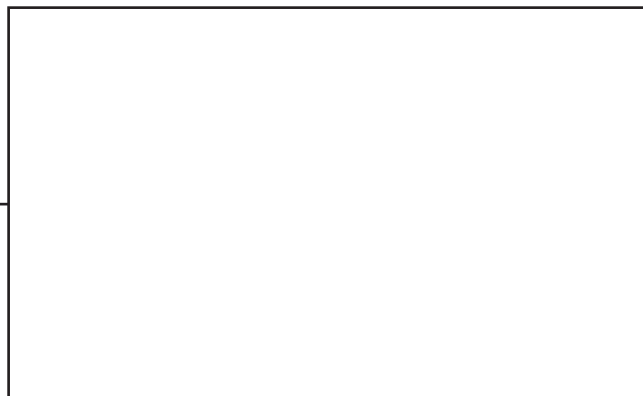
Model		SAI125CB		
Load center, LCP	mm	650	750	850
Load height, H	mm	2000	2000	2000
Lift height, h_{23}	mm			
3800		1250	1100	950
4300		1150	1000	850
4800		1000	860	760
5400		900	780	650



Truck features:

- Automatic
 - loading and unloading
 - horizontal transport
 - horizontal deep stacking
- Manual handling
- Laser precision navigation
- Personal safety protection drive direction
- Personal safety protection along sides
- Personal safety protection fork direction
- Obstacle detection, top (optional)
- Obstacle detection, front (optional)
- Mechanical fork bumper (optional)
- Auto charging Lithium Ion battery
- Barcode scanner (optional)
- RFID scanner (optional)
- Load detection & fork tip sensors
- Information display
- Electronic regenerative braking system

Other features are available on request.



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