

Autopilot stacker truck 1.6 ton



staxio
AUTOPILOT
SAE160



 **Toyota Material Handling Australia** 8 Secombe Place, Moorebank NSW 2170

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Autopilot stacker truck

Specifications					SAE160 (Duplex Tele)	SAE160 (Triplex Hi-Lo)
Identification	1.1	Manufacturer			Toyota	
	1.2	Model			SAE160	
	1.3	Drive			Electric	
	1.4	Operator type			Automatic/Pedestrian	
	1.5	Load capacity/rated load	Q	kg	1600	
	1.6	Load centre	c	mm	600	
	1.8	Load distance, centre of support arm wheel to face of forks	x	mm	See battery and options dependent table	
	1.9	Wheelbase	y	mm	See battery and options dependent table	
Weight	2.1	Service weight incl battery		kg	1513	1723
	2.2	Axle load, with load: Drive/Castor/Support arm wheel		kg	353/739/2033	353/849/2133
	2.3	Axle load, without load: Drive/Castor/Support arm wheel		kg	361/680/472	361/790/572
Wheels	3.1	Drive/Castor/Support arm wheel			Friction/Vulkollan®/Vulkollan®	
	3.2	Wheel size, front		mm	Ø 230x70	
	3.3	Wheel size, rear		mm	Ø 85x95	
	3.4	Additional wheels (dimensions)		mm	Ø 125x50	
	3.5	Wheels, number front/rear (x = driven wheels)			1x+2/2	
	3.6	Track width, front	b ₁₀	mm	585	
	3.7	Track width, rear (width over forks 520/570)	b ₁₁	mm	339/390	-/390
Dimensions	4.2	Height, mast lowered	h ₁	mm	1736	2162
	4.4	Lift	h ₃	mm	2260	4613
		Lift height	h ₂₃	mm	2350 ³⁾	4700 ³⁾
	4.5	Height, mast extended	h ₄	mm	3002	5316
	4.9	Height of tiller in drive position, min./max.	h ₁₄	mm	1150/1485	
		Height with scanner	h ₂₀	mm	2381/2969	
		Height scanner eye	h ₂₁	mm	2362/2950	
	4.15	Height, fork lowered	h ₁₃	mm	87,5	
	4.19	Overall length	l ₁	mm	See battery and options dependent table	
		Overall length, fork tip stopping device	l ₁	mm		
	4.20	Length to face of forks	l ₂	mm	See battery and options dependent table	
	4.21	Overall width	b ₁	mm	930	
	4.22	Fork dimensions	s/e/l	mm	70/180/1200	
	4.25	Width over forks	b ₅	mm	520/570	-/570
	4.26	Distance between support arms	b ₄	mm	212/226	-/226
4.31	Ground clearance, with load, below mast	m ₁	mm	17		
4.32	Ground clearance, centre of wheelbase	m ₂	mm	24,5		
4.35	Turning radius	W _a	mm	See battery and options dependent table		
Performance data	5.1	Travel speed, drive wheel/fork direction, manual mode with platform		km/h	6,0/6,0	
		Travel speed, drive wheel/fork direction, manual mode		km/h	2,0/4,0	
	5.1.1	Travel speed, drive wheel/fork direction, automatic mode		km/h	8,0/1,1 ²⁾	
	5.2	Lift speed, with/without load		m/s	0,17/ 0,34	
	5.3	Lowering speed, with/without load		m/s	0,46/0,41	
	5.8	Max. gradeability, with/without load ¹⁾		%	6/10	
5.10	Service brake			Electromagnetic		
Electric motor	6.1	Drive motor rating S2 60 min		kW	1.8	
	6.2	Lift motor rating at S3 10%		kW	3	
	6.4	Battery voltage/nominal capacity K _s		V/Ah	24/500	
	6.5	Battery weight		kg	345-403	
	Other	8.1	Type of drive control			Variable AC
8.4		Sound level at the driver's ear according to EN 12 053		dB (A)	<70	
		Safety of laser products			Class 1 (EC 60825-1)	
		Height from floor to upside battery rollers		mm	140	

n) = New value / text since previous version of the data sheet

1) Measured according to company standard. 2) 4,3 km/h with optional safety scanner in fork direction. 3) Max height of load station in automode is h₂₃ - 200mm

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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Battery and options dependent dimensions

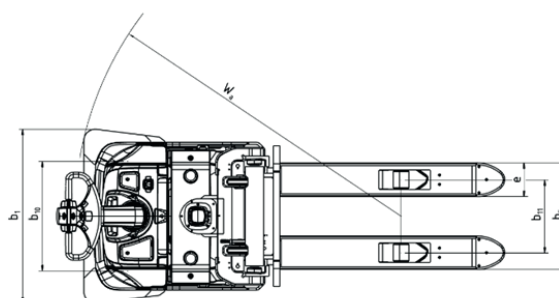
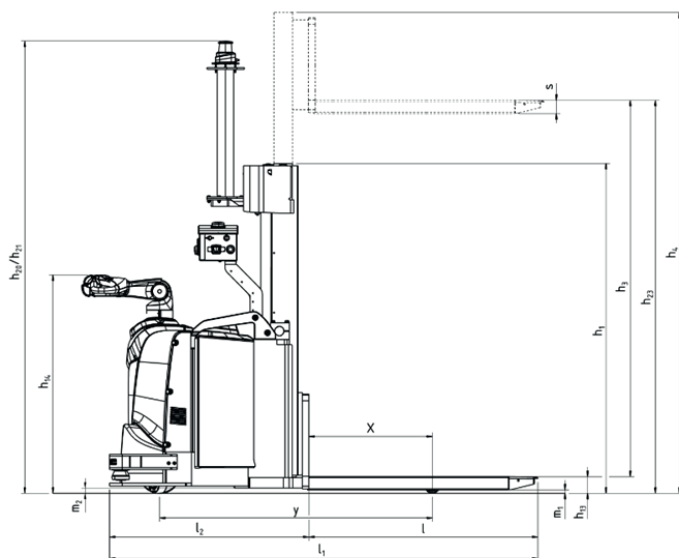
Dimensions			Battery compartment	Large	
	Fork lenght		mm	1200	1600
1.8	Load distance	x	mm	653	975
	Load distance, with safety scanner rear, TX Hi-Lo	x	mm	653	975
1.9	Wheelbase	y	mm	1452	1774
	Wheelbase, with safety scanner rear, TX Hi-Lo	y	mm	1502	1824
4.19	Overall length ⁴⁾	l_1	mm	2267	2667
	Overall length, with safety scanner rear, TX Hi-Lo ⁴⁾	l_1	mm	2317	2717
4.20	Length to face of forks, TX Hi-Lo	l_2	mm	1065	1065
	Length to face of forks, with safety scanner rear, TX Hi-Lo	l_2	mm	1115	1115
	Length to face of forks, with / without safety scanner rear, DX Tele	l_2	mm	1065	1065
4.33	Aisle width for load 800x1200 short side handling. Manual mode	A_{st}	mm	2646	-
	Aisle width for load 800x1600 short side handling Manual mode	A_{st}	mm	-	3023
4.35	Turning radius	W_a	mm	1768	2081
	Turning radius, with safety scanner rear, TX Hi-Lo	W_a	mm	1816	2131

4) Mechanical fork bumper will extend forks 91mm (41mm is suspension movement)

Aisle width Auto mode

SAE160 Large batt. compartment	A_{st} Rotate on point. PPS muted *)			
	Short side handling	Load width	mm	800
	Load length	mm	1200	1600
	PPS in fork direction			
DX Tele	Yes/No	mm	2687	3066
TX Hi-Lo	Yes	mm	2735	3116
	No	mm	2687	3066

*) Add 50mm with Tx 4,7m mast. Add 41mm with mechanical fork bumper. n)



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 (optional)
- Obstacle detection, top (optional)
- Obstacle detection, front (optional)
- Mechanical fork bumper (optional)
- Auto charging Lithium Ion battery (optional)
- Load detection & fork tip sensors
- Information display
- Electronic regenerative braking system
- Sideway battery change

Other features are available on request.



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