

Pedestrian stacker truck 1.2- 2.0 ton



BT staxio

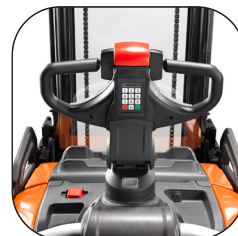
P-series

SPE120L

SPE140L

SPE160L

SPE200L



Pedestrian stacker with elevating support arms

Specifications				SPE120L	SPE140L	SPE160L	SPE200L	
Identification	1.1	Manufacturer		Toyota	Toyota	Toyota	Toyota	
	1.2	Model		SPE120L	SPE140L	SPE160L	SPE200L	
	1.3	Drive		Electric	Electric	Electric	Electric	
	1.4	Operator type		Stand on/pedestrian	Stand on/pedestrian	Stand on/pedestrian	Stand on/pedestrian	
	1.5	Load capacity/rated load	Q	kg	1200	1400	1600	2000
		Support arm capacity	Q	kg	2000	2000	2000	2000
	1.6	Load center	c	mm	600	600	600	600
	1.8	Load distance, centre of support arm wheel to face of forks raised support arms	x	mm	694	661	661	644
		lowered support arms	x	mm	725	692	692	675
1.9	Wheelbase raised support arms	y	mm	1408	1408	1408	1408	
	lowered support arms	y	mm	1439	1439	1439	1439	
Weight	2.1	Service weight incl. battery		kg	1349	1489	1489	1691
	2.2	Axle load, with load, drive/castor/fork wheel		kg	680/249/1620	820/143/1926	870/94/2125	680/384/2627
	2.3	Axle load, without load, drive/castor/fork wheel		kg	400/496/453	510/450/529	510/529/450	400/676/615
Wheels	3.1	Drive/castor/fork wheel			Polyurethane			
	3.2	Wheel size, front		mm	Ø 230	Ø 230	Ø 230	Ø 230
	3.3	Wheel size, rear		mm	Ø 85	Ø 85	Ø 85	Ø 85
	3.4	Additional wheel size		mm	Ø 125	Ø 125	Ø 125	Ø 125
	3.5	Wheels, number front/rear (x = driven wheels)			1x+2/2 or 4	1x+2/2 or 4	1x+2/2 or 4	1x+2/2 or 4
	3.6	Track width, front	b ₁₀	mm	585	585	585	585
	3.7	Track width, rear	b ₁₁	mm	390	390	390	390
Dimensions	4.2	Height, mast lowered	h ₁	mm	2020 *)	1955 *)	1955 *)	1955 *)
	4.3	Free lift	h ₂	mm	1556 *)	1478 *)	1478 *)	1378 *)
	4.4	Lift	h ₃	mm	4060 *)	4060 *)	4060 *)	3960 *)
		Lift height	h ₂₃	mm	4150 *)	4150 *)	4150 *)	4050 *)
	4.5	Height, mast extended	h ₄	mm	4657 *)	4668 *)	4668 *)	4668 *)
	4.6	Initial Lift	h ₅	mm	120	120	120	120
	4.8	Stand height	h ₇	mm	190	190	190	190
	4.9	Height of tiller in drive position, min./max. highest setting	h ₁₄	mm	1201/1413	1201/1413	1201/1413	1201/1413
		lowest setting	h ₁₄	mm	1101/1313	1101/1313	1101/1313	1101/1313
	4.15	Height, fork lowered	h ₁₃	mm	90	90	90	90
	4.19	Overall length platform up	l ₁	mm	2085	2106	2106	2129
		platform down	l ₁	mm	2532	2565	2565	2577
	4.20	Length to face of forks platform up	l ₂	mm	935	956	956	979
		platform down	l ₂	mm	1382	1415	1415	1427
	4.21	Overall width	b ₁ /b ₂	mm	790/—	790/—	790/—	850/—
	4.22	Fork dimensions	s/e/l	mm	70/180/1150	70/180/1150	70/180/1150	70/185/1150
	4.25	Width over forks	b ₅	mm	570	570	570	575
	4.32	Ground clearance, center of wheelbase	m ₂	mm	19,5	19,5	19,5	19,5
	4.33	Aisle width for pallets 1000x1200 crossways platform up	A _{st}	mm	2619	2639	2639	2650
	platform down	A _{st}	mm	3068	3088	3088	3099	
4.34	Aisle width for pallets 800x1200 lengthways platform up	A _{st}	mm	2510	2536	2536	2550	
	platform down	A _{st}	mm	2959	2985	2985	2999	
4.35	Turning radius platform up	W _a	mm	1665	1665	1665	1665	
	platform down	W _a	mm	2114	2114	2114	2114	
Performance data	5.1	Travel speed, with/without load		km/h	6,0/6,0	6,0/6,0	6,0/6,0	6,0/6,0
		6 km/h version		km/h	7,0/8,0	7,0/8,0	7,0/8,0	—
		8 km/h version		km/h	—	9,0/10,0	9,0/10,0	—
		10 km/h version						
	5.2	Lift speed, with/without load		m/s	0,20/0,36	0,17/0,33	0,15/0,31	0,13/0,24
	5.3	Lowering speed, with/without load		m/s	0,45/0,45	0,45/0,45	0,45/0,45	0,45/0,45
5.8	Max. gradeability, with/without load		%	8/12	8/12	8/12	8/12	
5.9	Acceleration time (over 10 m)		s	5,2	5,3	5,5	6,6	
5.10	Service brake			Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	
Electric motor	6.1	Drive motor rating (S2 60min) 6 km/h version		kW	1,8	1,8	1,8	1,8
		8 km/h version		kW	1,8	1,8	1,8	—
		10 km/h version		kW	—	2,5	2,5	—
	6.2	Lift motor rating (S3 15%)		kW	3	3	3	3
	6.4	Battery voltage, nominal capacity K _s		V/Ah	24/300	24/300	24/300	24/300
	6.5	Battery weight		kg	195-270	195-270	195-270	195-270
6.6	Energy consumption acc to VDI cycle		kWh/h	1,04	1,06	1,07	1,06	
Others	8.1	Type of drive control			Variable AC	Variable AC	Variable AC	Variable AC
	8.4	Sound level at the driver's ear according to EN 12 053		dB (A)	66	66	66	67

1) Measured according to company standard.

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

Data is based on standard configurations: Small battery compartment, h23 = 4150 mm (SPE120/140/160) and 4050 mm (SPE200) Triplex HiLo mast

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

Truck performance and dimensions are nominal and subject to tolerances.

Battery dependent dimensions

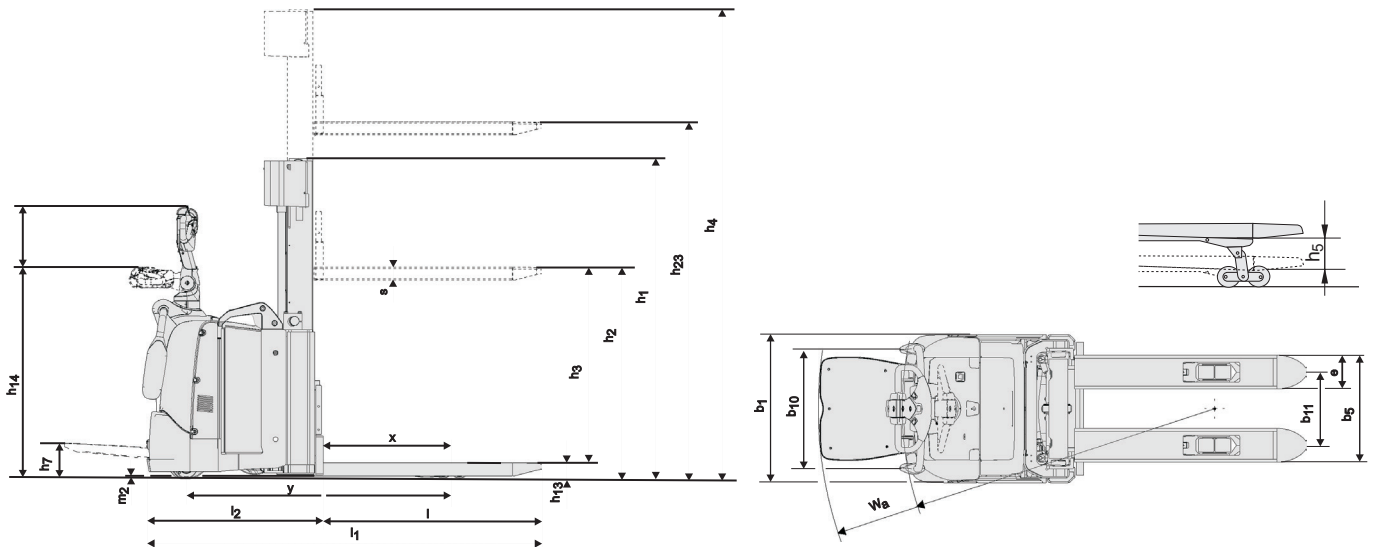
Dimensions		Battery		SPE120L				SPE140L				SPE160L				SPE200L			
				Lift out		Sideways		Lift out		Sideways		Lift out		Sideways		Lift out		Sideways	
				S	L*	S	L*	S	L*	S	L*	S	L*	S	L*	S	L*	S	L*
1.9	Wheelbase																		
	raised support arms	y	mm	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505
	lowered support arms	y	mm	1439	1536	1436	1536	1439	1536	1439	1536	1439	1536	1439	1536	1439	1536	1439	1536
4.19	Overall length																		
	platform up	l_1	mm	2085	2181	2085	2181	2106	2203	2106	2203	2106	2203	2106	2203	2129	2226	2129	2226
	platform down	l_1	mm	2532	2631	2532	2631	2565	2665	2565	2665	2565	2665	2565	2665	2577	2674	2577	2674
4.20	Length to face of forks																		
	platform up	l_2	mm	935	1031	935	1031	956	1053	956	1053	956	1053	956	1053	979	1076	979	1076
	platform down	l_2	mm	1382	1481	1382	1481	1415	1515	1415	1515	1415	1515	1415	1515	1427	1524	1427	1524
4.33	Aisle width for pallets 1000x1200 crossways																		
	platform up	A_{st}	mm	2619	2715	2619	2715	2639	2735	2639	2735	2639	2735	2639	2735	2650	2746	2650	2746
	platform down	A_{st}	mm	3068	3165	3068	3165	3088	3185	3088	3185	3088	3185	3088	3185	3099	3196	3099	3196
4.34	Aisle width for pallets 800x1200 lengthways																		
	platform up	A_{st}	mm	2510	2606	2510	2606	2536	2632	2536	2632	2536	2632	2536	2632	2550	2646	2550	2646
	platform down	A_{st}	mm	2959	3056	2959	3056	2985	3082	2985	3082	2985	3082	2985	3082	2999	3096	2999	3096
4.35	Turning radius																		
	platform up	W_a	mm	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761
	platform down	W_a	mm	2114	2211	2114	2211	2114	2211	2114	2211	2114	2211	2114	2211	2114	2211	2114	2211
6.4	Battery voltage, nominal capacity K_s		V/Ah	24/300	24/500	24/300	24/500	24/300	24/500	24/300	24/500	24/300	24/500	24/300	24/500	24/300	24/500	24/300	24/500
6.5	Battery weight, min.—max.		kg	195-310	345-405	195-300	345-405	195-310	345-405	195-310	345-405	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

Mast			Duplex Tele Panoramic View					Duplex HiLo					Triplex HiLo										
SPE120L	h_{23}	Lift height ($h_{13}+h_3$)	mm	2350	2800	3300	3700	4150	1950	2350	2500	2800	3300	3700	4150	3300	3700	3950	4150	4500	4800	—	—
	h_3	Lift	mm	2260	2710	3210	3610	4060	1860	2260	2410	2710	3210	3610	4060	3210	3610	3860	4060	4410	4710	—	—
	h_1	Height, mast lowered	mm	1718	1943	2193	2393	2618	1518	1718	1793	1943	2193	2393	2618	1737	1870	1953	2020	2137	2237	—	—
	h_2	Free lift, ground to top of forks	mm	172	172	172	172	172	1082	1282	1356	1506	1756	1956	2182	1274	1406	1490	1556	1674	1774	—	—
	h_4	Height, mast extended	mm	2827	3277	3777	4177	4627	2468	2868	3018	3318	3818	4218	4660	3808	4207	4456	4657	5008	5308	—	—
SPE140L	h_{23}	Lift height ($h_{13}+h_3$)	mm	2350	2800	3300	3700	4150	—	2350	2500	2800	3300	3700	4150	3300	3700	3950	4150	4500	4800	5400	—
	h_3	Lift	mm	2260	2710	3210	3610	4060	—	2260	2410	2710	3210	3610	4060	3210	3610	3860	4060	4410	4710	5310	—
	h_1	Height, mast lowered	mm	1744	1969	2219	2419	2644	—	1743	1818	1968	2218	2418	2643	1671	1805	1888	1955	2071	2171	2371	—
	h_2	Free lift, ground to top of forks	mm	—	—	—	—	—	—	1256	1332	1482	1732	1932	2156	1194	1328	1410	1478	1594	1694	1894	—
	h_4	Height, mast extended	mm	2892	3342	3842	4242	4692	—	2891	3041	3341	3841	4241	4691	3816	4218	4467	4668	5016	5316	5916	—
SPE160L	h_{23}	Lift height ($h_{13}+h_3$)	mm	2350	2800	3300	3700	4150	1950	2350	2500	2800	3300	3700	4150	3300	3700	3950	4150	4500	4800	5400	6000
	h_3	Lift	mm	2260	2710	3210	3610	4060	1860	2260	2410	2710	3210	3610	4060	3210	3610	3860	4060	4410	4710	5310	5910
	h_1	Height, mast lowered	mm	1744	1969	2219	2419	2644	1543	1743	1818	1968	2218	2418	2643	1671	1805	1888	1955	2071	2171	2371	2571
	h_2	Free lift, ground to top of forks	mm	—	—	—	—	—	1056	1256	1332	1482	1732	1932	2156	1194	1328	1410	1478	1594	1694	1894	2096
	h_4	Height, mast extended	mm	2892	3342	3842	4242	4692	2491	2891	3041	3341	3841	4241	4691	3816	4218	4467	4668	5016	5316	5916	6520

Mast			Duplex Tele Panoramic View					Duplex HiLo					Triplex HiLo						
SPE200L	h_{23}	Lift height ($h_{13}+h_3$)	mm	2150	2600	3100	3500	3950	2150	2300	2600	3100	3500	3950	3200	3600	3850	4050	4400
	h_3	Lift	mm	2060	2510	3010	3410	3860	2060	2210	2510	3010	3410	3860	3110	3510	3760	3960	4310
	h_1	Height, mast lowered	mm	1744	1969	2219	2419	2644	1744	1819	1969	2219	2419	2644	1671	1805	1888	1955	2071
	h_2	Free lift, ground to top of forks	mm	—	—	—	—	—	1156	1232	1382	1632	1832	2056	1094	1228	1310	1378	1494
	h_4	Height, mast extended	mm	2792	3242	3742	4142	4592	2792	2942	3242	3742	4142	4592	3816	4218	4467	4668	5016



Truck features:

- BT 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
- Toyota I_site: truck fleet management system (option)
- Hydraulic oil for low temperatures (option)
- Li-ion battery (option)



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TOYOTA

MATERIAL HANDLING