

SPE120L/140L/160L/200L

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, most lowered	h ₁	mm	1995	1946	1946	1946
	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, most 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	0,38/0,45
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)		kW	1,8	1,8	1,8	1,8
		6 km/h version		kW	1,8	1,8	1,8	—
		8 km/h version		kW	—	2,5	2,5	—
		10 km/h version						
	6.2	Lift motor rating (S3 15%)		kW	3	3	3	3
	6.4	Battery voltage, nominal capacity K ₅		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 according to VDI cycle		kWh/h	1,04	1,06	1,07	1,06	
Other	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.

Data is based on standard truck and small battery.

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 lowered support arms	y	mm	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505	1408	1505
	y	mm	1439	1536	1436	1536	1439	1536	1439	1536	1439	1536	1439	1536	1439	1536	1439	1536
4.19 Overall length platform up platform down	l_1	mm	2085	2181	2085	2181	2106	2203	2106	2203	2106	2203	2106	2203	2129	2226	2129	2226
	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 platform down	l_2	mm	935	1031	935	1031	956	1053	956	1053	956	1053	956	1053	979	1076	979	1076
	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 platform down	A_{st}	mm	2619	2715	2619	2715	2639	2735	2639	2735	2639	2735	2639	2735	2650	2746	2650	2746
	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 platform down	A_{st}	mm	2510	2606	2510	2606	2536	2632	2536	2632	2536	2632	2536	2632	2550	2646	2550	2646
	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 platform down	W_a	mm	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761	1665	1761
	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-	345-	195-	345-	195-	345-	195-	345-	195-	345-	195-	345-	195-	345-	195-	345-
			310	405	300	405	310	405	310	405	310	405	310	405	310	405	310	405

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

Mast dimensions

Mast				Duplex Tele Panoramic View					Duplex Hi-Lo					Triplex Hi-Lo									
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	1710	1935	2185	2385	2610	1510	1710	1785	1935	2185	2385	2610	1712	1845	1928	1995	2112	2212	—	—
	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	1737	1962	2212	2412	2637	—	1736	1811	1961	2211	2411	2636	1662	1796	1879	1946	2062	2162	2362	—
	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	1737	1962	2212	2412	2637	1536	1736	1811	1961	2211	2411	2636	1662	1796	1879	1946	2062	2162	2362	2562
	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

