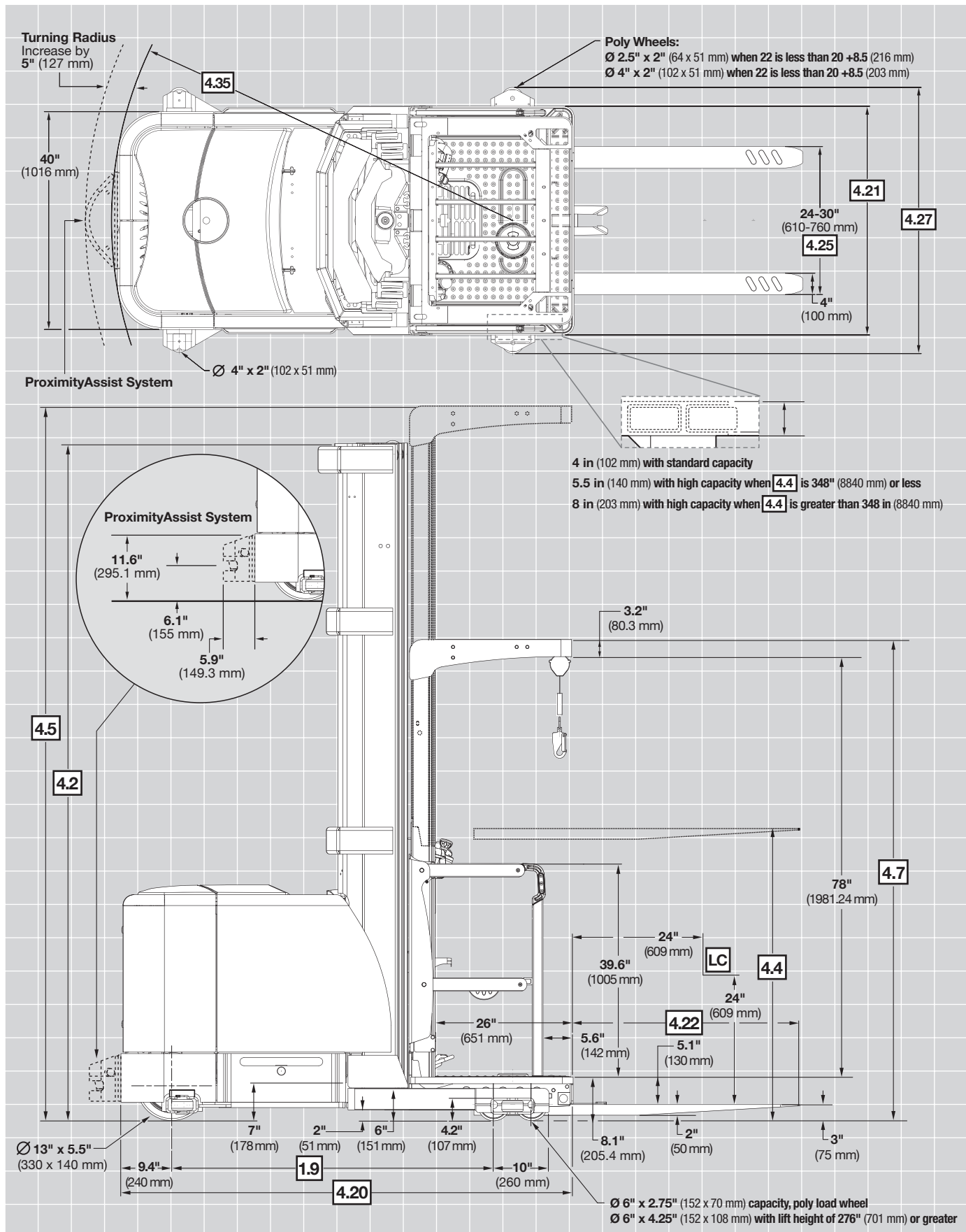


CROWN

SP 1500 SERIES

Specifications
Stockpicker





SP 1510 Fixed Fork Specifications

					Imperial				Metric				
Distinguishing Mark	1.1	Manufacturer			Crown Equipment Corporation								
	1.2	Model			SP 1510								
	1.3	Power Source	Electric	Volt	24/36/48								
	1.4	Operator Type			Stockpicker								
	1.5	Rated Capacity*	Q	lbs/kg	3,000				1360				
	1.6	Load Center	c	in/mm	24				600				
	1.8	Load Distance	x	in/mm	13				336				
	Battery Compartment				B	C	D	E	B	C	D	E	
1.9	Wheelbase	TL	y	in/mm	52	54.3	56	58.6	1320	1380	1420	1490	
		TT	y	in/mm	51.3	53.6	55.2	57.8	1305	1360	1405	1470	
Weight	2.1	Service Weight**	Less Battery	lbs/kg	6,394	6,239	6,261	6,305	2900	2830	2840	2860	
	2.2	Axle Load**	W. Load, Front/Rear	lbs/kg	7,006/18,360	7,352/18,528	7,846/18,770	8,287/19,010	3178/8328	3335/8404	3559/8514	3759/8623	
	2.3	Axle Load**	W.O. Load, Front/Rear	lbs/kg	10,946/8,347	11,136/8,669	11,524/9,017	11,805/9,418	4965/3786	5051/3932	5227/4090	5354/4272	
Tires/Wheels/Chassis	3.1	Tires			polyurethane								
	3.2	Tire Size	Front	in/mm	Ø 6 x 2.75***				Ø 152 x 70 ***				
	3.3	Tire Size	Rear	in/mm	Ø 13 x 5.5				Ø 330 x 140				
Dimensions	3.5	Wheels	Number Front/Back (x=Driven)		4/1x								
	4.2	Mast Collapsed Height	h1	in/mm	see table 1, 2, and 3								
	4.3	Free Lift	h2	in/mm									
	4.4	Lift Height	h3	in/mm									
	4.5	Mast Extended Height	h4	in/mm									
	4.7	Overhead Guard Height	h6	in/mm									
	4.8	Stand Height	Lowered	h7	in/mm	8.1				206			
	4.14	Stand Height	Elevated	h12	in/mm	see table 1, 2, and 3							
	4.15	Fork Height	Lowered	h13	in/mm	3				75.5			
	4.20	Head Length	TL	l2	in/mm	74.7	77	78.7	81.3	1895	1955	2000	2065
			TT	l2	in/mm	75.5	77.7	79.4	82	1915	1975	2015	2085
	4.21	Overall Width	Front/Rear	b1/b2	in/mm	see table 1, 2, and 3							
	4.21a	Overall Width	Operator Platform	b9	in/mm								
	4.22	Fork Dimensions	Standard	LxWxT	in/mm	42x4x2				1065x102x51			
			Optional Length	in/mm	30, 36, 39, 45, 48, 54, 60, 72, 84				760/915/990/1145/1220/1370/1525/1830/2135				
	4.25	Fork Spread	Min. - Max.	b5	in/mm	24-30				610-762			
	4.27	Width Across Guide Roller	In .25" Increments	b6	in/mm	see table 1, 2, and 3							
	4.31	Ground Clearance	With Load Below Mast	m1	in/mm	2				51			
	4.35	Turning Radius	TL	Wa	in/mm	70	72	74	77	1780	1835	1875	1945
			TT	Wa	in/mm	69	72	73	76	1760	1815	1855	1925
Performance Data	5.1	Travel Speed	w./w.o. load	mph/kph	see table 4								
	5.2	Lift Speed	24v w./w.o. load	fpm - m/s	43/71				0.22/0.36				
			36v w./w.o. load	fpm - m/s	85/115				0.43/0.58				
			36v Optional w./w.o. load	fpm - m/s	85/130				0.43/0.66				
			48v w./w.o. load	fpm - m/s	98/140				0.50/0.71				
			48v w./w.o. load	fpm - m/s	80/80				0.41/0.41				
	5.3	Lowering Speed	36v w./w.o. load	fpm - m/s	80/80				0.41/0.41				
			48v w./w.o. load	fpm - m/s	80/80				0.41/0.41				
			24v Optional	fpm - m/s	110 †				0.56 †				
			36v Optional	fpm - m/s	205 †				1.04 †				
48v Optional			fpm - m/s	205 †				1.04 †					
5.10			Service Brake			regenerative							
5.11			Parking Brake			electro-magnetic							
Electric Motor	6.1	Traction Motor	24v 60 min. rating	HP/kW	5.2				3.9				
			36v 60 min. rating	HP/kW	6.4				4.8				
			48v 60 min. rating	HP/kW	6.4				4.8				
	6.2	Pump Motor	24v 15% on time	HP/kW	20				15				
			36v 15% on time	HP/kW	20				15				
			48v 15% on time	HP/kW	20				15				
	6.3	Max. Battery Box Size	LxWxH	in/mm	38.4 x 14.25 x 31	38.4 x 16.25 x 31	38.7 x 18.2 x 31	38.7 x 20.75 x 31	976 x 362 x 787	976 x 413 x 787	983 x 462 x 787	983 x 527 x 787	
	6.4	Battery Voltage		V	24/36/48								
			max amp	Ah	1,680/1,240/930								
6.5	Battery Weight	24v minimum	lbs/kg	1,521	2,000	2,280	2,600	690	910	1035	1180		
		36v and 48v minimum	lbs/kg	1,700				775					
	8.1	Drive Unit			AC traction								

*Max Capacity: 1250 kg (2,755 lb) for Collapsed Heights up to 4090 mm (161 in)

1100 kg (2,420 lb) for Collapsed Heights greater than 4090 mm (161 in) and up to 4345 mm (171 in)

** Value shown with TT mast 6095 mm (240 in) lift height, 2720 mm (107 in) collapsed height, 1065 mm (42 in) overall width and platform width.

*** Ø 152 x 108 mm (6 x 4.25 in) if max lift height [4.4] is 7010 mm (275 in) or greater.

† 1.04 m/s (205 fpm) if weight is < 680 kg (1500 lb) If weight is > 680 kg (1500 lb), lower speed linearly decreases based on measured weight (at 1135 kg (2500 lb) lower speed is 0.56 m/s (110 fpm)

SP 1510 Fixed Fork Specifications

TABLE 1 - SP1510 Standard Straddle

					TL Mast							
4.2	Mast	Collapsed height	h1	in mm	89.5	2275	95	2415	107	2720	119	3025
4.3	Free Lift		h2	in mm	3	75	6	150	6	150	6	150
4.4	Lift Height		h3	in mm	136	3450	148	3755	172	4365	194	4925
4.5	Mast	Extended height	h4	in mm	223	5665	235	5970	260	6605	281	7140
4.7	Overhead Guard Height		h6	in mm	86	2190	86	2190	86	2190	86	2330
4.14	Operator Stand Height	Raised	h12	in mm	142	3606	154	3911	178	4521	200	5080
4.21	Overall Width	Front/rear	b2	in mm	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065
4.21a	Overall Width	Operator platform		in mm	42	1065	42	1065	42	1065	42	1065
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658

					TL Mast				TT Mast			
4.2	Mast	Collapsed height	h1	in mm	131	3330	89.5	2275	95	2415	107	2720
4.3	Free Lift		h2	in mm	6	150	3	75	8	200	15	380
4.4	Lift Height		h3	in mm	214	5435	195	4950	210	5330	240	6095
4.5	Mast	Extended height	h4	in mm	301	7650	283	7190	298	7570	328	8335
4.7	Overhead Guard Height		h6	in mm	86	2330	86	2190	86	2190	86	2330
4.14	Operator Stand Height	Raised	h12	in mm	220	5588	201	5105	216	5486	246	6248
4.21	Overall Width	Front/rear	b2	in mm	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065
4.21a	Overall Width	Operator platform		in mm	42	1065	42	1065	42	1065	42	1065
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658	45.5 to 65.25	1156 to 1658

TABLE 2 - SP1510 Standard Straddle

					TT Mast							
4.2	Mast	Collapsed height	h1	in mm	119	3025	125	3175	131	3330	143	3635
4.3	Free Lift		h2	in mm	27	685	33	840	39	1135	51	1295
4.4	Lift Height		h3	in mm	276	7010	294	7465	312	7920	330	8380
4.5	Mast	Extended height	h4	in mm	364	9250	382	9705	400	10160	418	10620
4.7	Overhead Guard Height		h6	in mm	86	2330	86	2330	86	2330	86	2330
4.14	Operator Stand Height	Raised	h12	in mm	282	7162	300	7620	318	8077	336	8534
4.21	Overall Width	Front/rear	b2	in mm	48/48	1220/1220	54/54	1375/1375	54/54	1375/1375	54/54	1375/1375
4.21a	Overall Width	Operator platform		in mm	48	1220	54	1375	54	1375	54	1375
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	48.75 to 71.25	1238 to 1809	54.75 to 77.25	1390 to 1962	54.75 to 77.25	1390 to 1962	56.75 to 79.25	1441 to 2013

					TT Mast							
4.2	Mast	Collapsed height	h1	in mm	149	3785	155	3935	161	4090	171	4345
4.3	Free Lift		h2	in mm	57	1450	63	1600	69	1755	79	2005
4.4	Lift Height		h3	in mm	348	8835	366	9295	384	9750	402	10210
4.5	Mast	Extended height	h4	in mm	436	11075	454	11535	473	12015	490	12450
4.7	Overhead Guard Height		h6	in mm	86	2330	86	2330	86	2330	86	2330
4.14	Operator Stand Height	Raised	h12	in mm	354	8991	372	9449	390	9906	408	10363
4.21	Overall Width	Front/rear	b2	in mm	60/60	1525/1525	60/60	1525/1525	64/64	1625/1625	64/64	1625/1625
4.21a	Overall Width	Operator platform		in mm	60	1525	60	1525	64	1625	64	1625
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	60.75 to 83.25	1543 to 2115	60.75 to 83.25	1543 to 2115	64.75 to 87.25	1645 to 2216	64.75 to 87.25	1645 to 2216

SP 1510 Fixed Fork Specifications

TABLE 3 - SP1510 Narrow Straddle

					TT Mast									
4.2	Mast	Collapsed height	h1	in mm	125	3175	131	3330	143	3635	149	3785	155	3935
4.3	Free Lift		h2	in mm	33	840	39	990	51	1295	57	1450	63	1600
4.4	Lift Height		h3	in mm	294	7465	312	7920	330	8380	348	8835	366	9295
4.5	Mast	Extended height	h4	in mm	382	9705	400	10160	418	10620	436	11075	454	11535
4.7	Overhead Guard Height		h6	in mm	86	2330	86	2330	86	2330	86	2330	86	2330
4.14	Operator Stand Height	Raised	h12	in mm	300	7620	318	8077	336	8534	354	8991	372	9449
4.21	Overall Width	Front/rear	b2	in mm	48/48	1220/1220	48/48	1220/1220	48/48	1220/1220	54/54	1375/1375	54/54	1375/1375
4.21a	Overall Width	Operator platform		in mm	48	1220	48	1220	48	1220	54	1375	54	1375
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	48.75 to 71.25	1238 to 1809	48.75 to 71.25	1238 to 1809	48.75 to 71.25	1238 to 1809	56.75 to 79.25	1440 to 2013	56.75 to 79.25	1440 to 2013

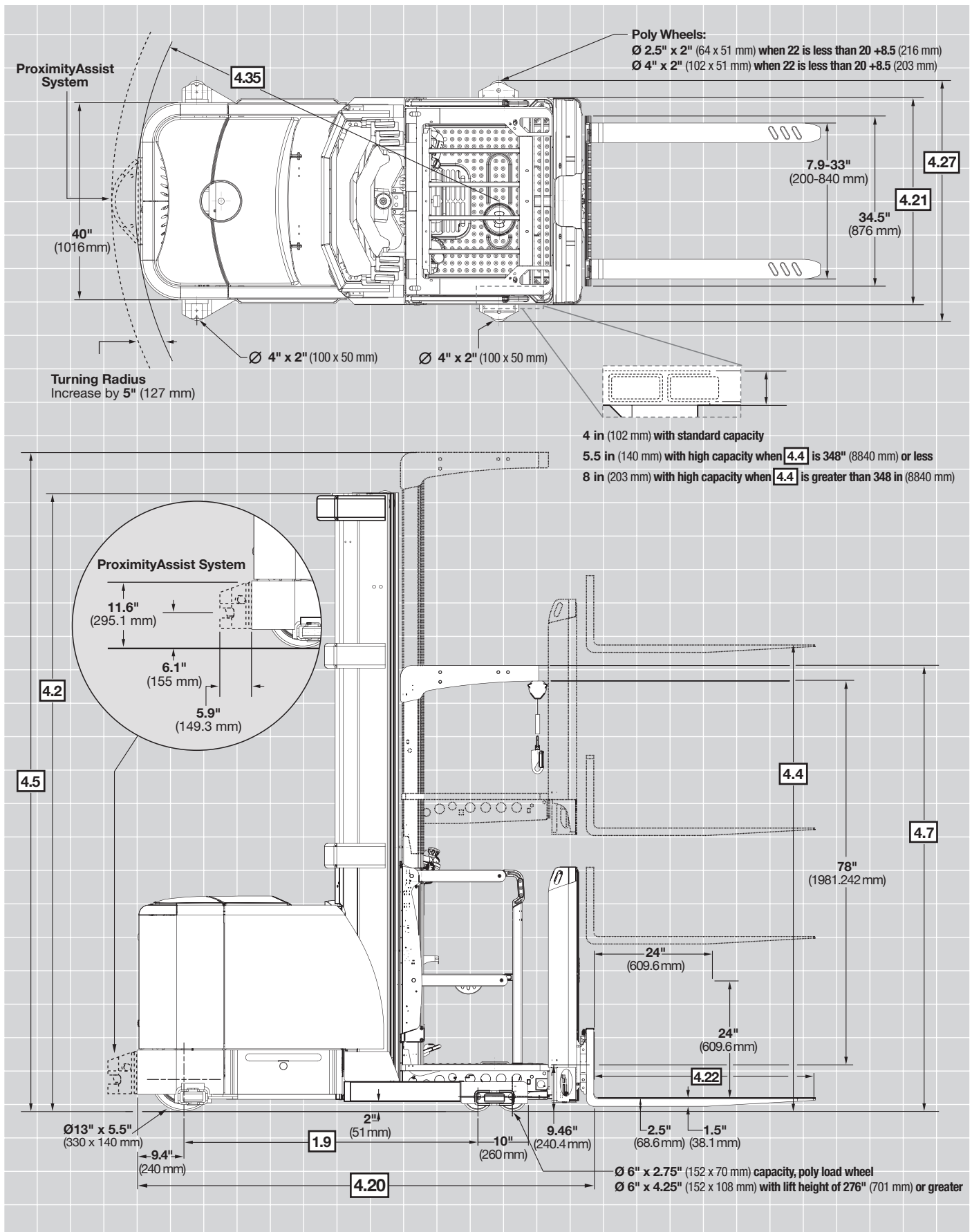
TABLE 4 - Travel Speeds

Standard Straddle < 240" (6095 mm) Lift Height and All Narrow Straddle Lift Heights				High Capacity Standard Straddle Lift Heights > = 240" (6095 mm)			
Steered Wheel < 12 degrees Power Unit First (PUF) Travel Speed Empty/Loaded				Steered Wheel < 12 degrees Power Unit First (PUF) Travel Speed Empty/Loaded			
Imperial		Metric		Imperial		Metric	
Fork Height (in)	mph	Fork Height (mm)	km/h	Fork Height (in)	mph	Fork Height (mm)	km/h
0-24	7.5	0-610	12	0-24	7.5	0-610	12
24-40	7.5-6.9	610-1016	12.0-11.1	24-40	7.5-7.1	610-1016	12.0-11.4
40-64	6.9-6.0	1016-1625	11.1-9.6	40-64	7.1-6.5	1016-1625	11.4-10.5
64-120	6.0-3.8	1625-3048	9.6-6.0	64-120	6.5-4.5	1625-3048	10.5-7.2
120-152	3.8-2.7	3048-3861	6.0-4.3	120-152	4.5-3.4	3048-3861	7.2-5.5
152-176	2.7-1.5	3861-4470	4.3-2.4	152-176	3.4-2.6	3861-4470	5.5-4.2
176-192	1.5	4470-4877	2.4	176-192	2.6-2.2	4470-4877	4.2-3.5
192-216	1.5	4877-5486	2.4	192-216	2.2-1.5	4877-5486	3.5-2.4
216-max	1.5	5486-max	2.4	216-max	1.5	5486-max	2.4

⁽¹⁾ Top travel speed is reduced to 80% at a 12° steering angle, beyond 12° travel speeds gradually reduce down to 50% of top travel speed. Steering angle is automatically limited to within 12° straight travel as indicated below:

- Standard Capacity above 192" (4877 mm)

⁽²⁾ For guided trucks, from 0-60 inches (0-1524 mm), travel speeds in the Forks First (FF) direction of travel are approximately 0.5 mph (0.8 km/h) less than travel speeds in the Power Unit First (PUF) direction. Forks First travel for non-guided trucks will be limited to a max travel speed of 5.5 mph (8.9 kmp)



SP 1520 Aux Lift

Specifications

					Imperial				Metric				
Distinguishing Mark	1.1	Manufacturer			Crown Equipment Corporation								
	1.2	Model			SP 1520								
	1.3	Power Source	Electric	Volt	24/36/48								
	1.4	Operator Type			Stockpicker								
	1.5	Rated Capacity*	Q	lbs/kg	2,200				1000				
	1.6	Load Center	c	in/mm	24				600				
	1.8	Load Distance	x	in/mm	13				336				
	Battery Compartment				B	C	D	E	B	C	D	E	
1.9	Wheelbase	TL	y	in/mm	52	54	56	59	1320	1380	1420	1490	
		TT	y	in/mm	51	54	55	58	1305	1360	1405	1470	
Weight	2.1	Service Weight**	Less Battery	lbs/kg	6,845	6,702	6,724	6,768	3105	3040	3050	3070	
	2.2	Axle Load**	W. Load, Front/Rear	lbs/kg	6,391/ 18,777	6,762/ 18,918	7,271/ 19,145	7,736/ 19,361	2899/ 8517	3067/ 8581	3298/ 8684	3509/ 8782	
	2.3	Axle Load**	W.O. Load, Front/Rear	lbs/kg	10,342/ 9,967	10,554/ 10,265	10,957/ 10,598	11,263/ 10,975	4691/ 4521	4787/ 4656	4970/ 4807	5109/ 4978	
Tires/Wheels/ Chassis	3.1	Tires		polyurethane									
3.2	Tire Size	Front	in/mm	Ø 6 x 2.75***				Ø 152 x 70 ***					
		Rear	in/mm	Ø 13 x 5.5				Ø 330 x 140					
3.5	Wheels	Number Front/Back (x=Driven)			4/1x								
Dimensions	4.2	Mast Collapsed Height	h1	in/mm	see table 1 and 2								
	4.3	Free Lift	h2	in/mm									
	4.4	Lift Height	h3	in/mm									
	4.5	Mast Extended Height	h4	in/mm									
	4.7	Overhead Guard Height	h6	in/mm									
	4.8	Stand Height	Lowered	h7	in/mm	9.45			240				
	4.14	Stand Height	Elevated	h12	in/mm	see table 1 and 2							
	4.15	Fork Height	Lowered	h13	in/mm	3			75.5				
	4.20	Head Length	TL	l2	in/mm	84	86	88	90	2125	2185	2225	2290
			TT	l2	in/mm	85	87	88	91	2145	2200	2245	2310
	4.21	Overall Width	Front/Rear	b1/b2	in/mm	see table 1 and 2							
	4.21a	Overall Width	Operator Platform	b9	in/mm								
	4.22	Fork Dimensions	Standard	LxWxT	in/mm	45x4x1.5			1145x102x38				
			Optional Length		in/mm	30,36,39,42,48			760/915/990/1070/1220				
	4.25	Fork Spread	Min. - Max.	b5	in/mm	8.0-33			205-840				
	4.27	Width Across Guide Roller	In .25" Increments	b6	in/mm	see table 1 and 2							
	4.31	Ground Clearance	With Load Below Mast	m1	in/mm	2			51				
4.35	Turning Radius	TL	Wa	in/mm	70	72	74	77	1780	1835	1875	1945	
		TT	Wa	in/mm	69	72	73	76	1760	1815	1855	1925	
Performance Data	5.1	Travel Speed	w./w.o. load	mph/kph	see table 3								
	5.2	Lift Speed	24V w./w.o. load	fpm - m/s	43/71				0.22/0.36				
			36V w./w.o. load	fpm - m/s	85/115				0.43/0.58				
			36V Optional w./w.o. load	fpm - m/s	85/130				0.43/0.66				
			48V w./w.o. load	fpm - m/s	98/140				0.50/0.71				
	5.3	Lowering Speed	24V w./w.o. load	fpm - m/s	80/80				0.41/0.41				
			36V w./w.o. load	fpm - m/s	80/80				0.41/0.41				
			48V w./w.o. load	fpm - m/s	80/80				0.41/0.41				
			24v Optional	fpm - m/s	110 †				0.56 †				
			36v Optional	fpm - m/s	205 †				1.04 †				
			48v Optional	fpm - m/s	205 †				1.04 †				
	Aux Mast Travel Speed	w./w.o. load	mph/kmh	Std									
	Aux Mast Lift Speed	w./w.o. load	fpm - m/s	39.4	39.4	39.4	39.4	0.2	0.2	0.2	0.2		
	Aux Mast Lower Speed	w./w.o. load	fpm - m/s	18.7	18.7	18.7	18.7	0.095	0.095	0.095	0.095		
5.10	Service Brake			regenerative									
5.11	Parking Brake			electro-magnetic									
Electric Motor	6.1	Traction Motor	24v 60 min. rating	HP/kW	5.2			3.9					
			36v 60 min. rating	HP/kW	6.4			4.8					
			48v 60 min. rating	HP/kW	6.4			4.8					
	6.2	Pump Motor	24v 15% on time	HP/kW	20			15					
			36v 15% on time	HP/kW	20			15					
			48v 15% on time	HP/kW	20			15					
	6.3	Max. Battery Box Size	LxWxH	in/mm	38.4 x 14.25 x 31	38.4 x 16.25 x 31	38.7 x 18.2 x 31	38.7 x 20.75 x 31	976 x 362 x 787	976 x 413 x 787	983 x 462 x 787	983 x 527 x 787	
6.4	Battery Voltage		V	24/36/48									
		max amp	Ah	1,690/1,240/930									
6.5	Battery Weight	24v minimum	lbs/kg	1,520	2,000	2,280	2,600	690	910	1035	1180		
		36v and 48v minimum	lbs/kg	1,700				775					
8.1	Drive Unit			AC traction									

*Max Capacity: 1250 kg (2755 lb) for Collapsed Heights up to 4090 mm (161 in)
1100 kg (2420 lb) for Collapsed Heights greater than 4090 mm (161 in) and up to 4345 mm (171 in)

** Value shown with TT mast 6905 mm (227 in) lift height, 2720 mm (107 in) collapsed height, 1220 mm (48 in) overall width and platform width.

*** Ø 152 x 108 mm (6 x 4.25 in) if max lift height [4.4] is 885 mm (271 in) or greater.

† 1.04 m/s (205 fpm) if weight is < 680 kg (1500 lb) If weight is > 680 kg (1500 lb), lower speed linearly decreases based on measured weight (at 1135 kg (2500 lb) lower speed is 0.56 m/s (110 fpm)

TABLE 1 - SP1520 Standard Straddle

					TL Mast							
4.2	Mast	Collapsed height	h1	in mm	91	2315	95	2415	107	2720	119	3025
4.3	Free Lift		h2	in mm	34.5	875	37.5	950	37.5	950	37.5	950
4.4	Lift Height		h3	in mm	167	4240	179	4545	203	5155	225	5715
4.5	Mast	Extended height	h4	in mm	224	5690	236	5995	260	6605	282	7165
4.7	Overhead Guard Height		h6	in mm	88	2240	88	2240	94	2380	94	2380
4.14	Operator Stand Height	Raised	h12	in mm	142	3605	154	3910	178	4520	200	5080
4.21	Overall Width	Front/rear	b2	in mm	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065
4.21a	Overall Width	Operator platform		in mm	42	1065	42	1065	42	1065	42	1065
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	42.9 to 65.4	1090 to 1661	42.9 to 65.4	1090 to 1661	42.9 to 65.4	1090 to 1661	42.9 to 65.4	1090 to 1661

					TL Mast				TT Mast			
4.2	Mast	Collapsed height	h1	in mm	131	3330	91	2315	95	2415	107	2720
4.3	Free Lift		h2	in mm	37.5	950	34	830	38	965	45	1145
4.4	Lift Height		h3	in mm	245	6220	227	5765	242	6145	272	6905
4.5	Mast	Extended height	h4	in mm	302	7675	284	7215	299	7595	329	8360
4.7	Overhead Guard Height		h6	in mm	94	2380	88	2240	88	2240	94	2380
4.14	Operator Stand Height	Raised	h12	in mm	220	5590	202	5130	217	5510	247	6260
4.21	Overall Width	Front/rear	b2	in mm	42/42	1065/1065	42/42	1065/1065	42/42	1065/1065	48/48	1220/1220
4.21a	Overall Width	Operator platform		in mm	42	1065	42	1065	42	1065	48	1220
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	42.9 to 65.4	1090 to 1661	42.9 to 65.4	1090 to 1661	42.9 to 65.4	1090 to 1661	48.8 to 71.3	1238 to 1809

TABLE 2 - SP1520 Standard Straddle

					TT Mast									
4.2	Mast	Collapsed height	h1	in mm	119	3025	125	3175	131	3330	143	3635	149	3785
4.3	Free Lift		h2	in mm	57	1445	63	1600	69	1750	81	2055	87	2205
4.4	Lift Height		h3	in mm	308	7820	326	8280	344	8735	362	9190	380	9650
4.5	Mast	Extended height	h4	in mm	365	9275	383	9730	401	10190	419	10645	437	11100
4.7	Overhead Guard Height		h6	in mm	94	2380	94	2380	94	2380	94	2380	94	2380
4.14	Operator Stand Height	Raised	h12	in mm	283	7188	301	7645	319	8100	337	8550	355	9015
4.21	Overall Width	Front/rear	b2	in mm	54/54	1375/1375	54/54	1375/1375	56/56	1425/1425	60/60	1525/1525	60/60	1525/1525
4.21a	Overall Width	Operator platform		in mm	54	1375	54	1375	54	1375	60	1525	60	1525
4.27	Width Across Guide Rollers	In 6.5 mm increments	b6	in mm	54.7 to 77.2	1389 to 1961	54.7 to 77.2	1389 to 1961	56.7 to 79.2	1440 to 2012	60.8 to 83.3	1544 to 2116	60.8 to 83.3	1544 to 2116

TABLE 3 - Travel Speeds

Standard and Narrow Straddle			
Steered Wheel < 12 degrees Power Unit First (PUF) Travel Speed Empty/Loaded			
Imperial		Metric	
Fork Height (in)	mph	Fork Height (mm)	km/h
0-24	7.5	0-610	12.0
24-40	7.5	610-1016	12.0
40-64	7.5-6.0	1016-1625	12.0-9.6
64-120	6.0-3.8	1625-3048	9.6-6.1
120-152	3.8-2.6	3048-3861	6.1-4.2
152-176	2.6-1.8	3861-4470	4.2-2.9
176-192	1.8-1.5	4470-4877	2.9-2.4
192-216	1.5	4877-5486	2.4
216-max	1.5	5486-max	2.4

(1) Top travel speed is reduced to 80% at a 12° steering angle, beyond 12° travel speeds gradually reduce down to 50% of top travel speed. Steering angle is automatically limited to within 12° straight travel as indicated below:

- Standard Capacity above 192" (4877 mm)

(2) For guided trucks, from 0-60 inches (0-1524 mm), travel speeds in the Forks First (FF) direction of travel are approximately 0.5 mph (0.8 km/h) less than travel speeds in the Power Unit First (PUF) direction. Forks First travel for non-guided trucks will be limited to a max travel speed of 5.5 mph (8.9 kmp)

Standard Equipment

1. Crown's Gena Operating System
2. 24, 36, or 48-volt electrical system
3. High Speed Lift (48V models)
4. AC lift, traction, and steer motors
5. Linear height speed control gradually reduces travel speed as the platform raises
6. Variable Lift/Lower
7. Regenerative Lower
8. Programmable lift/lower cutouts (up to 6)
 - Zone Select: designate lift/lower cutouts into 3 separate zones
9. OnTrac Anti-Slip Traction Control
10. Intelligent Braking System combines the optimum amount of friction and motor braking
11. Intelligent Steering System automatically slows the travel speed when in a turn and provides smooth, electronic steering
12. Manual Wire Sense (with optional wire guidance)
13. Connectivity*
 - Cellular radio
 - Wireless truck firmware updates
 - Wireless truck data collection
 - Push wireless settings
14. Integrated InfoLink Hardware **
 - Smart card reader
 - Impact sensor
 - Wi-Fi radio
15. RAM Mounted 7" Color Touch Screen Display with Integrated Speaker
 - Optically bonded 2mm thick capacitive touch screen
 - Integrated navigation buttons for freezer/cold storage applications
 - Multiple languages
 - Vehicle status icons
- Customizable dashboard with widgets
 - Steer Wheel Indicator/Wire Guidance
 - Stopwatch
 - Battery Discharge Indicator
 - Hour Meter
 - Height
 - Clock
 - Odometer
 - Zone Select
 - Calculator
- Performance modes
- Safety Reminders
- Enhanced service diagnostics and troubleshooting
 - Detailed event information and history
 - Built-in analyzer
 - Step-by-step calibrations
 - Features programmability
 - Adjust performance settings
- Maintenance Mode**
- Visual Inspection Checklist**
- Impact strobe light and audible alert tone**
16. Start-up and run-time diagnostics
17. Corrosion Conditioning
18. Heavy-duty power unit
 - Removable steel battery side covers
 - Hinged, lift-off steel power unit doors
 - Hinged, top battery cover
 - 2" (51 mm) diameter battery rollers
19. Service panel with platform raise/lower buttons located behind power unit doors
20. Manual lowering valve located behind power unit doors
21. LED flashing light
22. Four battery compartment sizes: 14.6" (371 mm), 16.8" (427 mm), 18.5" (470 mm), 21.1" (536 mm)

23. SB 350 battery connector
24. Color-coded wiring
25. 13" (330 mm) diameter poly drive tire
26. 6" (152 mm) diameter tandem load wheels
27. Operator-centric platform
 - Visibility windows – unmatched views at any elevation
 - Large upper window – wire mesh screen
 - Exclusive middle window – wire mesh screen
 - Center floorboard window (1510 model)
 - Side floorboard slot windows
 - Aux mast visibility windows (SP 1520 model) – wire mesh screen
 - Cantilever side gates with cutout switches and integrated gas strut, padding, and bungee cord
 - Premium anti-fatigue floor mat
 - 6" (152 mm) diameter brake pedal
 - Ergonomically designed operator controls
 - Right hand controls optimized for blending traction, lift/lower, and horn
 - i. Thumbwheel for traction control
 - ii. Paddle for lift/lower control
 - iii. Urethane covered hand grip with integrated horn button
 - Left hand steering control
 - i. Exclusive, adjustable horizontal and vertical tiller knob orientation
 - ii. Spinner knob with urethane pad inserts
 - iii. Urethane hand grip for stability in guided aisles
 - 78" (1980 mm) tall operator compartment
 - Built-in platform storage

- Integrated Work Assist mounting rails
 - Flexibility in positioning Work Assist accessories
 - Center mounted Work Assist organizer bin
- Retractable tether and body harness
- Alternative tether attachment locations
- Key switch
- USB charging port (5V, 2 amp)

28. 1.5" (38 mm) manual pallet grab
29. InfoPoint Component Maps

Optional Equipment

1. ProximityAssist System (Operator Assist Solution)
 - Increases headlength by 6.1 inches
2. Xpress Lower
3. High Speed Lift (36V models)
4. Independent right and left power unit facing control set height adjustability of 4" (102 mm)
5. Wire and/or rail guidance
6. End-of-aisle control system (wire or rail guidance required)
7. High capacity for standard straddle
8. Narrow Straddle
9. Fork Lengths
10. Pallet/Cart Detection
11. Override switch for lift/lower cutouts
12. Keyless user access
13. Display navigation knob (standard with freezer conditioning)
14. Panoramic Lexan Overhead Guard
15. Clear glass upper visibility window
16. Clear poly middle visibility window
17. Clear poly aux mast visibility windows (SP 1520 model)
18. 48" (1220 mm), 54" (1370 mm), 60" (1525 mm), and 64" (1625 mm) wide operator platforms

* Crown Lift Trucks with the Gena OS are connected products. Please see crown.com for the data use policy to see more.

** Functional with an active InfoLink service plan.

19. 84" (2130 mm) tall operator compartment
20. LED Work Lights, LED Dome Lights, and Dual Operator Fans
21. LED Spotlights
 - OHG mounted, adjustable
 - Mast mounted
22. OHG extensions with built-in LED pick bay lights
23. Floor Spotlight – Blue
24. Travel Alarm
25. Operator Backrest/Perch (SP 1520 model)
26. Full length side gates with cutout switches and integrated gas struts, padding, and bungee cord
27. Side gates raised travel and lift/lower functionality – programmable
28. Battery retainer interlock switch
29. V-Force Lithium-Ion Ready
30. Fuel Cell Ready
31. 4" (102 mm), 6" (152 mm), or variable width 1.5" – 6" (38 – 152 mm) manual pallet grab
32. Variable width 1.5" – 6" (38 – 152 mm) electric pallet grab
33. Freezer Conditioning
 - Includes corrosion conditioning, ribbed floor mat, and wire mesh windows
34. Positive/Negative accessory cable (@ truck voltage)
35. UL EE Rating
36. 30" (762 mm) lanyard boom
37. Load wheel and drive tire compounds
38. Rearview Mirrors
39. Work Assist Accessories
 - Additional USB Power Supply
 - Scan Gun Holder
 - Ram Mount
 - Shrink wrap holder
 - Drink holder
 - Angled storage buckets
 - Clipboard
- Pocket inserts for standard organizer bin
- Cargo net
- Trash bracket
- Corner tray
- Center window bracket
- Gate mounted reusable bag
- Gate mounted pocket
- Large, magnetic mounted, power unit storage bin
40. Special paint
41. Fire extinguisher
42. Aluminum platform extension
43. Fork facing controls or dual facing (fork and power unit) controls (SP 1520 model)
44. Locking gates

Crown's Gena Operating System

Leverages Crown's proven, integrated control module structure to provide an enhanced user experience for operators, service technicians, and managers. Integrated InfoLink hardware allows for seamless enabling of Crown's telematics fleet management solution.

The Gena Operating System monitors inputs from all on-board sensors and responds instantaneously to control truck systems for safe, optimized performance. All control modules are in constant communication via a CAN (Control Area Network) bus so that real time information is accessible to the system at all times.

Standard safety and performance features further boost operator confidence and productivity, increasing throughput in narrow aisle applications. Real-time truck communication to the user through the Gena display equates to a powerful data-rich experience. Wireless firmware downloads ensure that the Gena operating system can be easily updated without requiring the use of a handset or laptop.

** Functional with an active InfoLink service plan.*

7" Touch Screen Display

The industrial grade, capacitive touch screen display provides intuitive menus and configurable widgets to enhance operator engagement, productivity and situational awareness. Large on-screen color graphics provide a bolstered visual interface while an integrated speaker provides unique audible tones specific to the on-screen communication.

Screens also offer context-sensitive assistance, including alerts, automated assistance, and dynamic real-time data. Safety reminder messages and an inspection checklist with visual cues* provide industry exclusive capabilities that reinforce operator training to assist in facility safety.

A refined service menu enables viewing of multiple lift truck inputs and outputs and step-by-step calibrations with voltage readouts which assists in expediting trouble shooting. Technicians can quickly access service history, set up performance parameters, and enable or disable truck features through the display.

Operator Platform

The operator platform is designed for visibility, stability, and ergonomics to increase operator confidence and comfort. The operator platform features a large upper visibility window. A Crown-designed clear-visibility mast affords upper window visibility through the mast while also providing unobstructed peripheral views when the platform is lowered. The clear-visibility mast, with full free lift, extends both the upper and middle platform windows above the mast channels for unobstructed and unmatched visibility when elevated.

An industry exclusive standard mid-window provides exceptional power unit first visibility at height. Standard center floor and side floor slot windows allow for easy viewing under the platform and of the outriggers while elevated. The SP 1520 features standard aux mast windows which provide elevated forks first visibility below a raised load. An optional panoramic overhead guard provides unobstructed views above the truck while elevating.

The right-hand control set features a fixed, urethane covered hand grip. The hand grip has an integrated horn button and a thumbwheel at the end for traction control. A paddle near the hand grip actuates lift and lower. This design optimizes blending of functions without sacrificing operator stability. Traction, lift/lower, and horn engagement can be seamlessly blended while maintaining a consistent solid point of contact. The left-hand control set features an industry exclusive tiller knob orientation adjustment which provides operator flexibility in all applications while still remaining a solid point of contact to bolster operator confidence. The tiller knob is angled at 10° to reduce steer effort in the vertical position. An optional 4" (102 mm) of independent height adjustability for the power unit facing controls provides even more operational flexibility and comfort.

The premium anti-fatigue platform cushion, made of a microcellular composition, absorbs shock and vibration. A 6" (152 mm) diameter brake pedal has a low-profile design that is flush with the platform cushion when engaged for maximum comfort. Heavy-duty side gates feature integrated gas struts for easy lifting and lowering as well as integrated padding for a comfortable leaning point when order picking. Both gates include a built-in bungee cord for quick access to pick labels or other frequently used paperwork. Standard interlock cut-out switches disengage truck operation when the side gates are raised; however, this functionality can be modified. Contact your Crown dealer.

A light/fan package option, consisting of two work lights, two dome lights, and two operator fans, provides enhanced operator comfort and confidence. Integrated Work Assist mounting rails in the platform structure provides flexibility in positioning accessories and work tools to improve operator efficiency. A USB charging port, organizer bin, and integrated storage compartments are also standard. A foot-applied and foot-released pallet clamp for use with pallets having center stringers is also provided.

Crown Drive System

Crown's AC drive system, enhanced with Gena technology, provides exceptional travel speeds, acceleration and deceleration, thus increasing productivity. A Crown-manufactured drive unit uses spiral bevel and helical gears from motor to drive wheel axle. A fixed, mounted drive motor does not rotate which minimizes wear on electrical cables.

Standard linear height speed control provides smooth travel speed transitions as lift heights change, increasing productivity.

Standard OnTrac anti-slip traction control monitors truck dynamics, optimizes tractive effort, reduces spinning during acceleration, prevents lock-up during braking, and can extend tire life. It improves traction performance in wet, dusty, or cold storage conditions.

Intelligent Steering

Crown's intelligent steering system slows the truck automatically when the steer tiller is turned beyond 12° enabling superior truck stability during turning. The Gena operating system monitors the height of the operator platform, truck speed, and steer wheel position at all times. The tiller knob rotation provides smooth, operator feedback. Auto-centering of the drive tire occurs at start up.

Intelligent Braking

Crown's intelligent braking system combines variable motor braking with a three-step friction brake to optimize safety and comfort for the operator. The appropriate level of braking is applied dependent upon platform height, direction of travel, and truck weight. Braking force is automatically reduced as height increases and speed decreases. Optimum braking for the right elevation gives operators more confidence and better control, while eliminating abrupt stops and reducing platform sway. In addition, friction brake use is minimized, which prolongs brake life.

Braking can also be accomplished by proportional plugging, which permits the operator to control the rate of deceleration when extended stopping distance is preferred.

Enhanced Hydraulics

Heavy-duty AC pump motor and gear pump is assembled into an integral unit. Regenerative lowering, as well as variable lifting and lowering, are both standard on all voltage offerings.

A high-speed lift option, available for the 36V model, and standard lift performance on the 48V model, provide leading lift speeds. The Xpress Lower option, which is available for all voltages, more than doubles the standard lowering speeds to aid in the reduction of picking cycle times.

Hydraulic cylinder cushioning provides smooth and consistent lifting and lowering performance throughout the entire range of lift height which enhances operator comfort and confidence during operation.

The Crown Mast Assembly

High visibility two- and three-stage masts feature a nested rail design with lift cylinders positioned behind the mast rails. The three-stage mast has a compact center cylinder yoke design for enhanced visibility in the power unit direction. Integrated mast guides between the channels provide smooth and quiet operation while traveling. Routing of hoses and cables optimizes visibility throughout the mast. Built in sensors detect chain slack and shut down primary lower function if chain slack is detected. Negative rail drop allows for shimming of mast rollers without major disassembly.

Heavy-Duty Low Profile Power Unit

Power unit is fabricated from heavy-gauge steel. Lower skirt is 0.75" (19 mm) steel that runs 9" (228 mm) high for component protection. Rugged steel doors suspended on heavy-duty pin hinges cover power unit componentry. Doors swing wide for open access. Doors can be lifted off for unrestricted service access. Door fastening bolts have exclusive convex design that mates with concave door holes for faster alignment and installation. Lift-off battery side covers are all steel. An optional battery retainer interlock switch is available. Top battery access is available by lifting cover. Cover has integral support post. A standard panel is located behind the power unit doors to provide technicians with raise/lower functionality of the platform.

Wheels and Tires

Polyurethane drive tire, 13" (330 mm) diameter x 5.5" (140 mm) wide x 8" (203 mm) hub diameter. Tandem load wheels are 6" (152 mm) diameter polyurethane x 2.8" (70 mm) wide (4.25" (108 mm) wide for high capacity trucks). Optional polyurethane aisle guide wheels are 2" (51 mm) wide with a 4" (102 mm) or 2.5" (64 mm) diameter.

Forks

2" (51 mm) thick x 4" (102 mm) wide forged steel. Fork spread (adjustable) 24" (610 mm) to 30" (760 mm). Standard length is 36" (915mm). Optional lengths available.

Warning Device Options

Audible Alerts

Safety considerations and dangers associated with audible travel alarms include:

- Multiple alarms can cause confusion.
- Workers ignore the alarms after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

Other Options Available

Contact factory for additional options.

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of vehicle, how it is equipped and the conditions of the operating area. Products and specifications are subject to change without notice.



crown.com

You can count on Crown to build lift trucks designed for safe operation, but that's only part of the safety equation. Crown encourages safe operating practices through ongoing operator training, safety-focused supervision, maintenance and a safe working environment. Go to crown.com and view our safety section to learn more.

Because Crown is continually improving its products, specifications are subject to change without notice.

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