

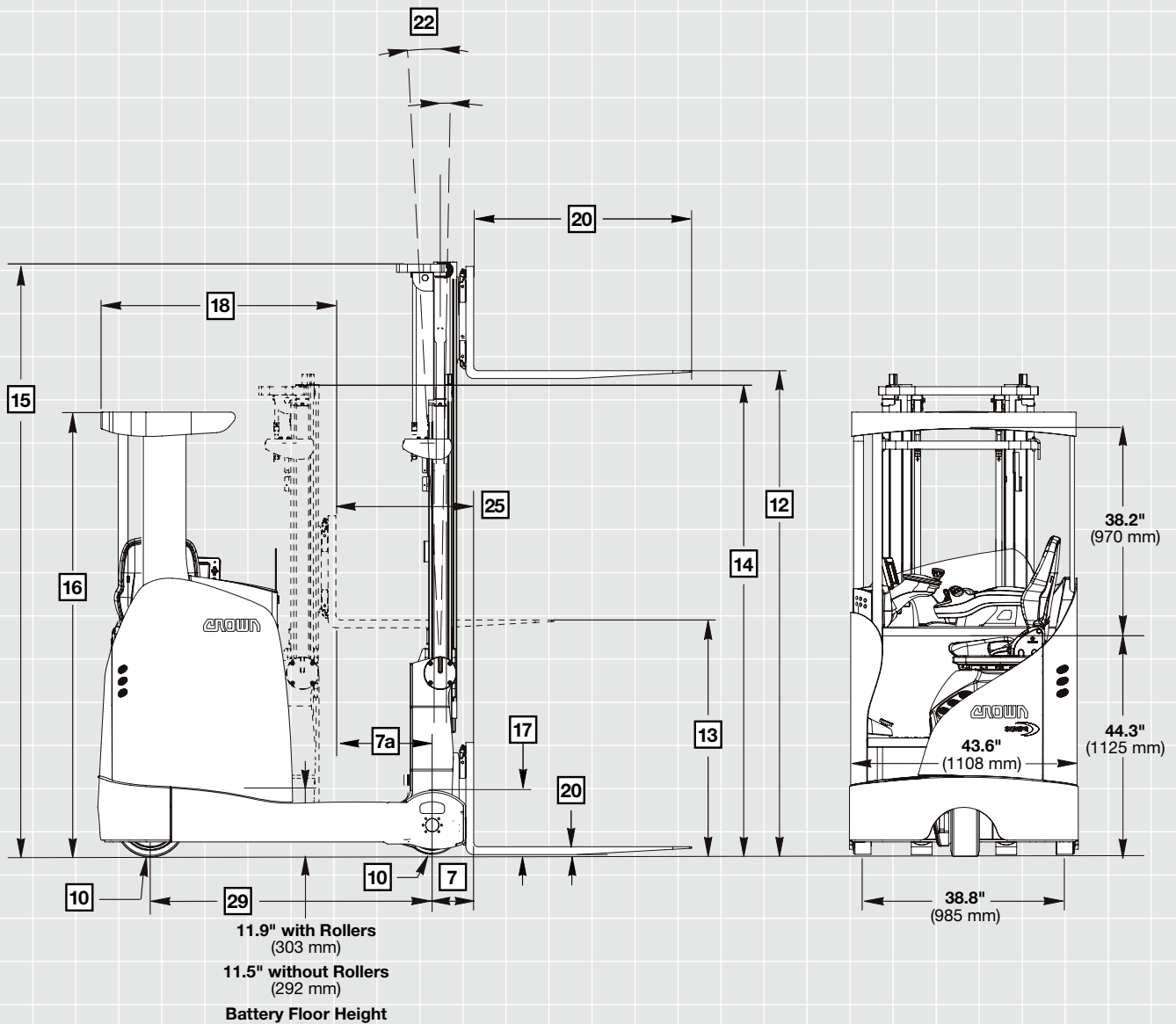
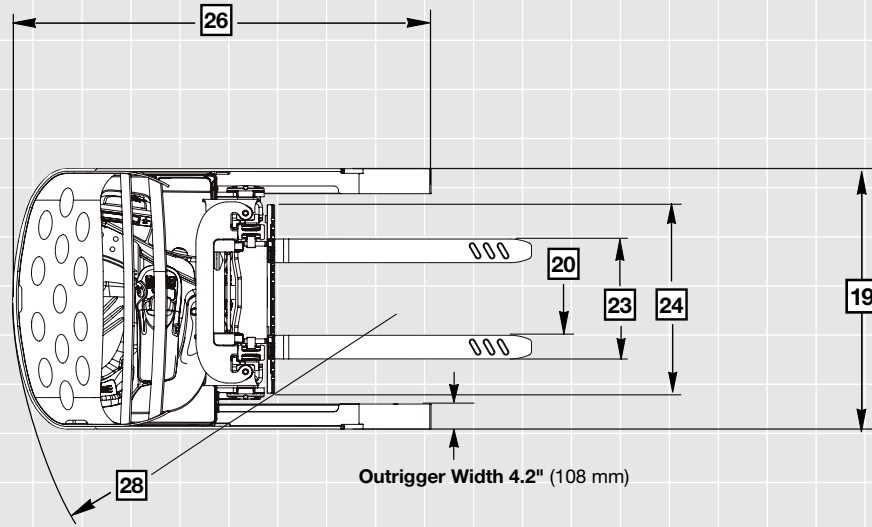
CROWN

ESR 1000 SERIES

Specifications

Moving Mast Reach Truck





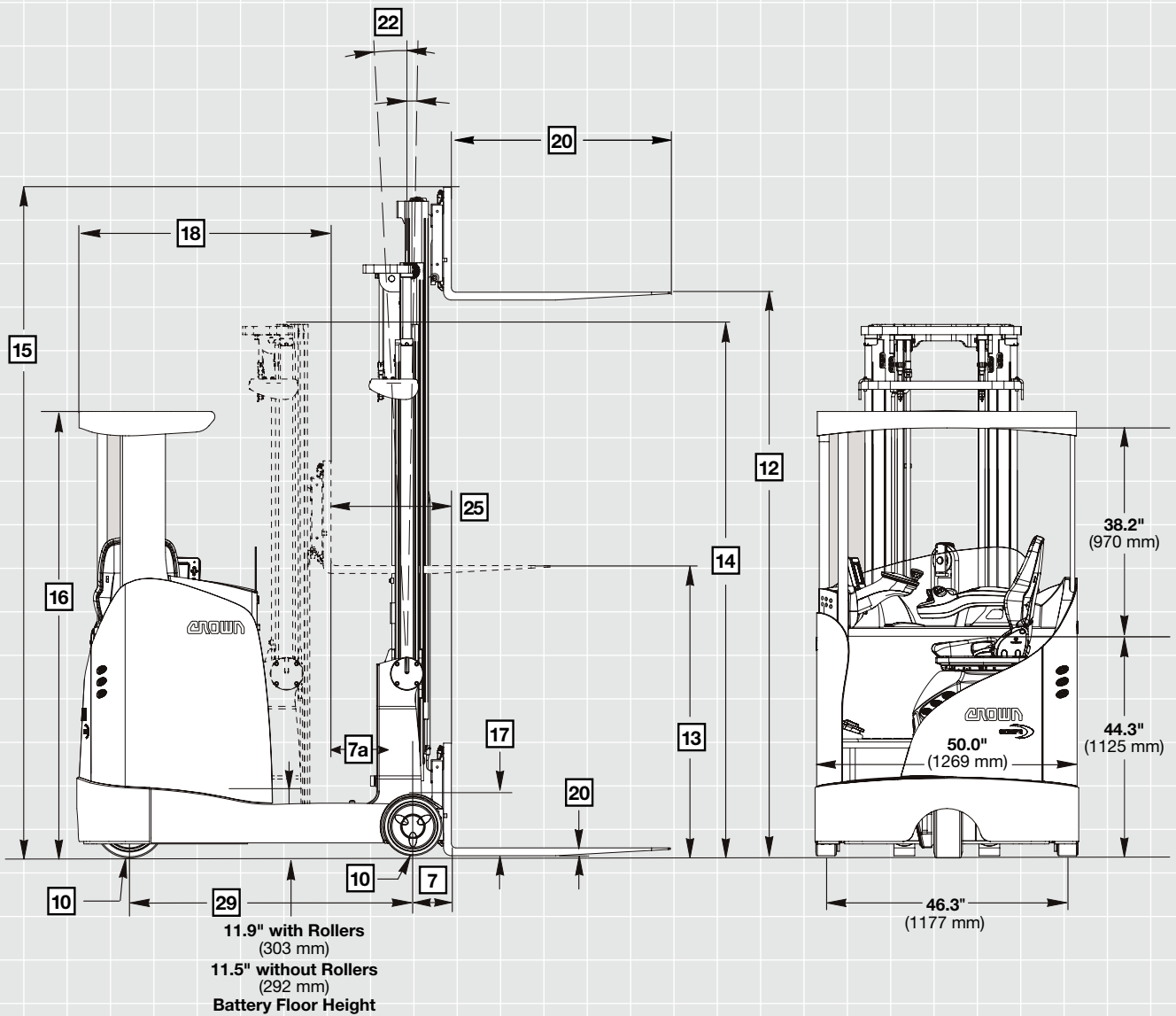
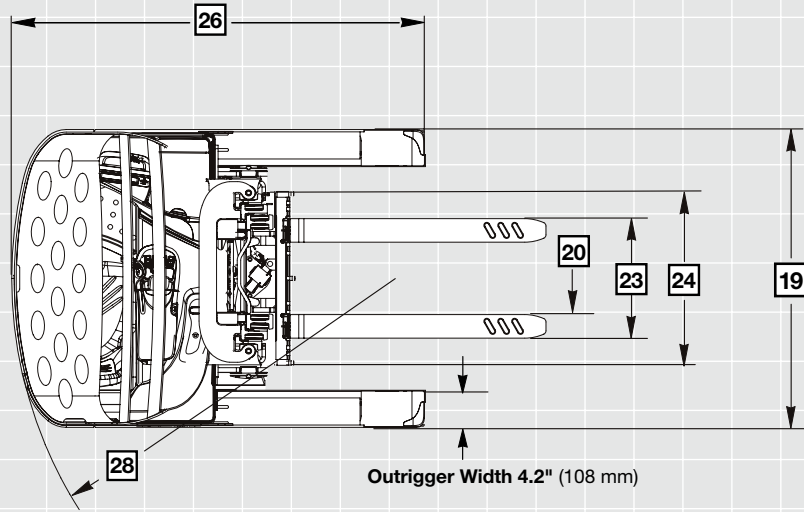
ESR 1020 Series

Specifications

			Imperial	Metric	Imperial	Metric		
General	1	Manufacturer	Crown Equipment Corporation					
	2	Model	ESR 1020-30		ESR 1020-35			
	3	Load Capacity	lb kg	3000	1400	3500	1600	
	4	Load Center	Fork face to load CG	in mm	24	600	24	600
	5	Power	Electric					
	6	Operator Type	48 Volts					
	7/7a	Load Distance	Extended/Retracted	in mm	7.95/Battery Chart	202/Battery Chart	7.95/Battery Chart	202/Battery Chart
	8	Wheels (x = driven)	Number Front/Rear		1x/2			
	9	Tire Type	Poly					
	10	Tires	Size - Drive/Caster	in mm	13.5x4.5, 11.2x3.2	343x114, 285x80	13.5x4.5, 11.2x3.2	343x114, 285x80
	11	Truck Weight	Less Battery	lb kg	4090*	1855*	4090*	1855*
Dimensions	12	Lift Height	Max Fork Height	in mm	See Mast Chart			
	13	Free Lift Height	w/o Load Backrest	in mm	See Mast Chart			
	14	Overall Collapsed Height		in mm	See Mast Chart			
	15	Overall Extended Height	w/o Load Backrest	in mm	See Mast Chart			
	16	Overhead Guard Height		in mm	85.6	2175	85.6	2175
	17	Outrigger Height		in mm	12.3	312	12.3	312
	18	Head Length		in mm	See Battery Chart			
	19	Overall Width			44.1	1120	44.1	1120
	20	Forks	Standard L x W x T	in mm	39x4x1.5	990x102x38	39x4x1.75	990x102x45
			Optional Lengths	in mm	31.5,42,45,48	800,1065,1145, 1220	31.5,42,45,48	800,1065,1145, 1220
	21	Sideshift	Left/Right	in mm	2	50	2	50
	22	Mast/Carriage Tilt	Forward/Backward	degree	See Mast Chart			
	23	Width Across Forks	Max	in mm	27.4	695	27.4	695
	24	Fork Carriage Width	with Sideshift	in mm	30.3	770	30.3	770
	25	Reach		in mm	See Battery Chart			
	26	Length Over Outriggers		in mm	70.9	1800	74.6	1895
27	Ground Clearance		in mm	3	76	3	76	
28	Turning Radius		in mm	64.5	1638	68.2	1733	
29	Wheelbase (Standard Wheel)		in mm	54.3	1380	58.1	1475	
Performance	30	Speed Travel**	Empty/Loaded	mph km/h	6.2	10.0	6.2	10.0
	31	Speed Lift	Empty	fpm m/s	118	0.6	118	0.6
			Loaded	fpm m/s	79	0.4	79	0.4
	32	Speed Lower	Empty	fpm m/s	98	0.5	98	0.5
			Loaded	fpm m/s	98	0.5	98	0.5
33	Max Gradeability	w/wo Load	%	12/12		12/12		
34	Brakes	Regen/Load Wheel Brake		Regen/No		Regen/1x		
Battery	35	Battery Type			Lead Acid		Lead Acid	
	36	Max Amp		Ah	930		930	
	37	Max Battery Size LxWxH		in mm	See Battery Chart			

* TL Mast 109" (2760 mm) + Option 5 Battery Tray

** 5.6 mph (9.0 km/h) in fork direction



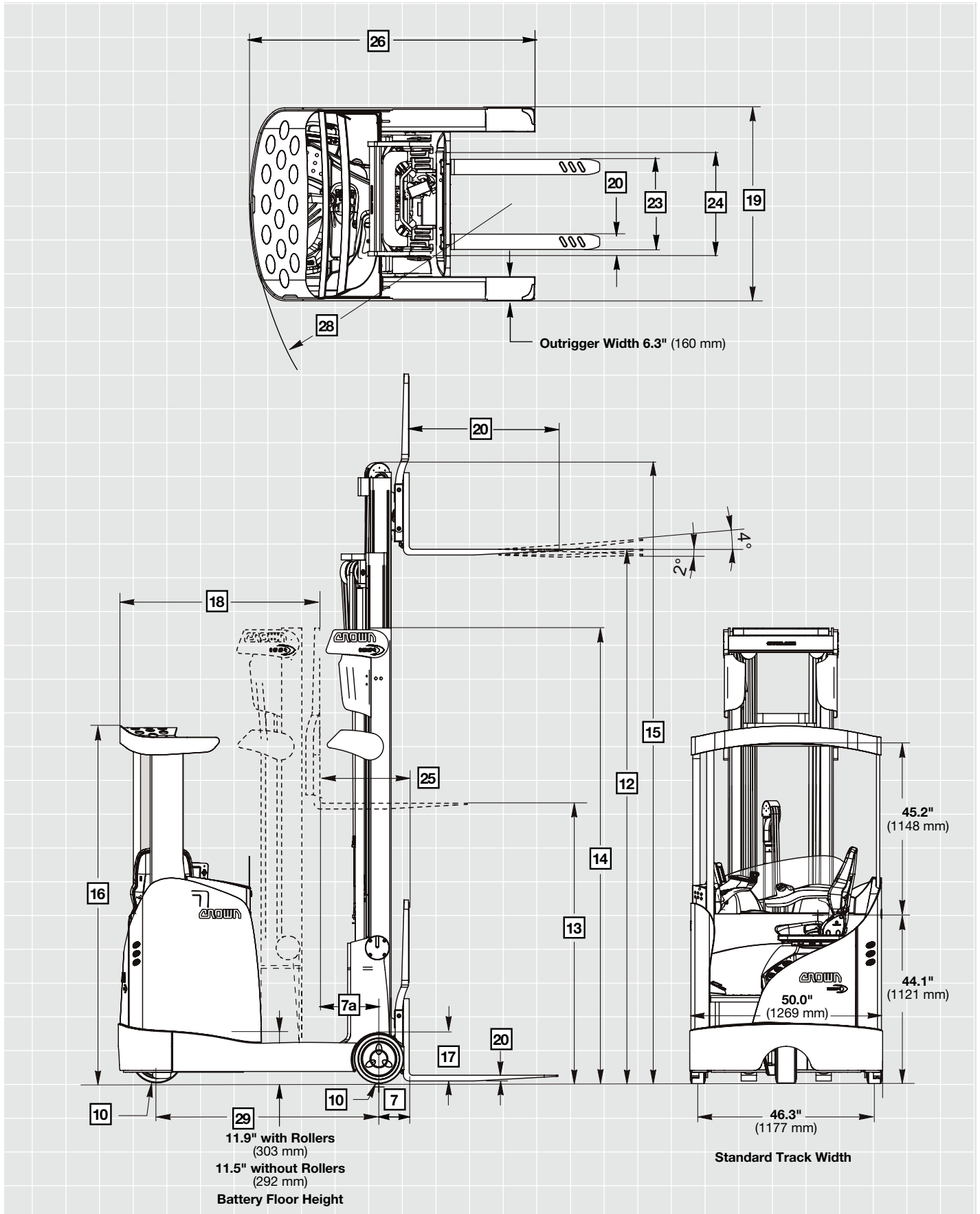
ESR 1040 Series

Specifications

			<i>Imperial</i>	<i>Metric</i>	<i>Imperial</i>	<i>Metric</i>		
General	1	Manufacturer	Crown Equipment Corporation					
	2	Model	ESR 1040-30		ESR 1040-35			
	3	Load Capacity	lb kg	3000	1400	3500	1600	
	4	Load Center	Fork face to load CG	in mm	24	600	24	600
	5	Power	Electric					
	6	Operator Type	48 Volts					
			Sit Down					
	7/7a	Load Distance	Extended/Retracted	in mm	7.36/Battery Chart	187/Battery Chart	7.36/Battery Chart	187/Battery Chart
	8	Wheels (x = driven)	Number Front/Rear					
	9	Tire Type	Poly					
	10	Tires	Size - Drive/Caster	in mm	13.5x4.5, 11.2x3.9	343x114, 285x100	13.5x4.5, 11.2x3.9	343x114, 285x100
11	Truck Weight	Less Battery	lb kg	4530*	2055*	4530*	2055*	
Dimensions	12	Lift Height	Max Fork Height	in mm	See Mast Chart			
	13	Free Lift Height	w/o Load Backrest	in mm	See Mast Chart			
	14	Overall Collapsed Height			See Mast Chart			
	15	Overall Extended Height	w/o Load Backrest	See Mast Chart				
	16	Overhead Guard Height			85.6	2175	85.6	2175
	17	Outrigger Height			11.9	301	11.9	301
	18	Head Length			See Battery Chart			
	19	Overall Width			50.6	1285	50.6	1285
	20	Forks	Standard L x W x T	in mm	39x4x1.5	990x102x38	39x4x1.75	990x102x45
			Optional Lengths	in mm	31.5,42,45, 48	800,1065,1145, 1220	31.5,42,45,48	800,1065,1145, 1220
	21	Sideshift	Left/Right	in mm	2.8	70	2.8	70
	22	Mast/Carriage Tilt	Forward/Backward	degree	See Mast Chart			
	23	Width Across Forks	Max	in mm	27.4	695	27.4	695
	24	Fork Carriage Width	with Sideshift	in mm	30.3	770	30.3	770
	25	Reach			See Battery Chart			
	26	Length Over Outriggers			70.3	1785	74.1	1880
	27	Ground Clearance			3	76	3	76
28	Turning Radius			64.8	1645	68.5	1740	
29	Wheelbase (Standard Wheel)			54.3	1380	58.1	1475	
Performance	30	Speed Travel**	Empty/Loaded	mph km/h	6.2	10.0	6.2	10.0
	31	Speed Lift	Empty	fpm m/s	118	0.6	118	0.6
			Loaded	fpm m/s	79	0.4	79	0.4
	32	Speed Lower	Empty	fpm m/s	98	0.5	98	0.5
			Loaded	fpm m/s	98	0.5	98	0.5
33	Max Gradeability	w/wo Load	%	12/12		12/12		
34	Brakes	Regen/Load Wheel Brake		Regen/No		Regen/1x		
Battery	35	Battery Type			Lead Acid		Lead Acid	
	36	Max Amp	Ah		775		775	
	37	Max Battery Size LxWxH	in mm		See Battery Chart			

* TL Mast 109" (2760 mm) + Option 1 Battery Tray

** 5.6 mph (9.0 km/h) in fork direction



ESR 1060 Series

Specifications

			Imperial	Metric	Imperial	Metric	Imperial	Metric		
General	1	Manufacturer	Crown Equipment Corporation							
	2	Model	ESR 1060-30		ESR 1060-35		ESR 1060-45			
	3	Load Capacity	lb kg	3000	1400	3500	1600	4500	2000	
	4	Load Center	Fork face to load CG	in mm	24	600	24	600	24	600
	5	Power	Electric							
	6	Operator Type	48 Volts							
	7	Load Distance	Extended	in mm	7.4	187	8.5	217	8.5	217
	7a	Load Distance	Retracted	See Battery Chart	See Battery Chart	See Battery Chart	See Battery Chart	See Battery Chart	See Battery Chart	
	8	Wheels (x = driven)	Number Front/Rear							
	9	Tire Type	1x/2							
Dimensions	10	Tires	Size - Drive/Caster	in mm	13.5x5.5, 11.2x3.9	343x140, 285x100	13.5x5.5, 13x3.9	343x140, 330x100	13.5x5.5, 13x3.9	343x140, 330x100
	11	Truck Weight	Less Battery	lb kg	5587*	2534*	5637*	2557*	5867**	2661**
	12	Lifting Height	Max Fork Height	in mm	See Mast Chart					
	13	Free Lift Height	w/o Load Backrest	in mm	See Mast Chart					
	14	Overall Collapsed Height		in mm	See Mast Chart					
	15	Overall Extended Height	w/o Load Backrest	in mm	See Mast Chart					
	16	Overhead Guard Height †		in mm	85.6,93.5, 100.6	2175,2375, 2554	85.6,93.5, 100.6	2175,2375, 2554	85.6,93.5, 100.6	2175,2375, 2554
	17	Outrigger Height		in mm	11.9	301	13.6	346	13.6	346
	18	Head Length		in mm	See Battery Chart					
	19	Overall Width	Front/Rear Standard	in mm	See Table 1					
	20	Forks	Standard L x W x T	in mm	39x4 x1.5	990x102 x38	39x4 x1.75	990x102 x45	39x4 x1.75	990x102 x45
			Optional Lengths	in mm	31.5,42,45, 48	800,1065, 1145,1220	31.5,42,45, 48	800,1065, 1145,1220	31.5,42, 45,48	800,1065, 1145,1220
	21	Sideshift	Left/Right	in mm	See Table 1					
	22	Carriage Tilt	Forward/Backward	degree	2/4		2/4		2/4	
	23	Width Across Forks	Max	in mm	See Table 1					
	24	Fork Carriage Width	w/wo Load Backrest	in mm	30.3/29.5	770/750	30.3/29.5	770/750	30.3/29.5	770/750
	25	Reach		in mm	See Battery Chart					
	26	Length Over Outriggers		in mm	70.3	1785	74.9	1903	74.9	1903
	27	Ground Clearance		in mm	3	76	3	76	3	76
28	Turning Radius		in mm	64.8	1645	68.3	1734	68.3	1734	
29	Wheelbase (Standard Wheel)		in mm	54.3	1380	58.1	1475	58.1	1475	
Performance	30	Speed Travel	Empty/Loaded	mph km/h	8.7	14.0	8.7	14.0	8.7	14.0
	31	Speed Lift	Empty	fpm m/s	157	0.80	157	0.80	140	0.71
			Loaded with 2,200lbs (1,000kg)	fpm m/s	114	0.58	114	0.58	116	0.59
	32	Speed Lower	Empty	fpm m/s	112	0.57	112	0.57	98	0.5
			Loaded	fpm m/s	112	0.57	112	0.57	112	0.57
	32a	Xpress Lower Speed	Empty	fpm m/s	217	1.1	217	1.1	217	1.1
Loaded			fpm m/s	217	1.1	217	1.1	217	1.1	
33	Max Gradeability	w/wo load	%	12/12		12/12		12/12		
34	Brakes	Regen/Load Wheel Brake		Regen/2x		Regen/2x		Regen/2x		
Battery	35	Battery Type	Lead Acid							
	36	Max Amp	Ah	1085		1085		1085		
	37	Max Battery Size LxWxH	in mm	See Battery Chart						

* TT 4-Roller Mast 192" (4890 mm) + Option 1 Battery Tray

** TT 6-Roller Mast 181" (4595 mm) + Option 2 Battery Tray

† Panoramic Overhead Guard Height Option is 90.6" (2300 mm)

ESR 1000 Series

Specifications

Battery Chart ESR 1020											
Battery Option		Option 5			Option 6		Option 7		Option 8		
Dimensions	Battery Weight Min-Max	lb kg	1193-1360	541-617	1563-1360	709-830	1962-2696	890-1223	2343-3056	1063-1386	
	Battery Length	in mm	39.9-40.75	1014-1035	39.9-40.75	1014-1035	39.9-40.75	1014-1035	39.9-40.75	1014-1035	
	Max Battery Height	in mm	30.9	785	30.9	785	30.9	785	30.9	785	
	Battery Width										
		ESR 1020-30	in mm	9.75-10.35	248-263	13.30-13.90	338-353	16.80-17.45	427-443	na	na
		ESR 1020-35	in mm	na	na	13.30-13.90	338-353	16.80-17.45	427-443	20.45 - 21.00	520-533
	Load Distance Retracted										
	7a	ESR 1020-30	in mm	18.6	472	15.2	387	11.7	297	na	na
	7a	ESR 1020-35	in mm	na	na	19	482	15.4	392	11.9	302
	Head Length										
	18	ESR 1020-30	in mm	45.9	1166	49.3	1251	52.8	1341	na	na
	18	ESR 1020-35	in mm	na	na	49.3	1251	52.8	1341	56.3	1431
	Reach										
	25	ESR 1020-30	in mm	26.5	674	23.2	589	19.7	499	na	na
	25	ESR 1020-35	in mm	na	na	26.9	684	23.4	594	19.8	504

Battery Chart ESR 1040 and ESR 1060											
Battery Option		Option 1			Option 2		Option 3		Option 4		
Dimensions	Battery Weight Min-Max	lb kg	1572-1781	713-808	1965-2218	891-1006	2343-2734	1063-1258	2736-3508	1241-1591	
	Battery Length	in mm	47.25-48.20	1200-1224	47.25-48.20	1200-1224	47.25-48.20	1200-1224	47.25-48.20	1200-1224	
	Max Battery Height	in mm	30.9	785	30.9	785	30.9	785	30.9	785	
	Battery Width										
		ESR 1040-30	in mm	10.55-11.15	268-283	13.35-14.00	339-355	16.25-16.80	412-427	na	na
		ESR 1040-35	in mm	10.55-11.15	268-283	13.35-14.00	339-355	16.25-16.80	412-427	na	na
		ESR 1060-30	in mm	10.55-11.15	268-283	13.35-14.00	339-355	16.25-16.80	412-427	na	na
		ESR 1060-35	in mm	10.55-11.15	268-283	13.35-14.00	339-355	16.25-16.80	412-427	19.10-19.65	485-499
		ESR 1060-45	in mm	na	na	13.35-14.00	339-355	16.25-16.80	412-427	19.10-19.65	485-499
	Load Distance Retracted										
	7a	ESR 1040-30	in mm	17.8	452	15.2	385	12.4	315	na	na
	7a	ESR 1040-35	in mm	21.5	547	18.9	480	16.1	410	na	na
	7a	ESR 1060-30	in mm	14.1	357	11.8	300	9.0	228	na	na
	7a	ESR 1060-35	in mm	17.5	445	15.3	388	12.4	316	9.6	244
	7a	ESR 1060-45	in mm	na	na	15.3	388	12.4	316	9.6	244
Head Length											
18	ESR 1040-30	in mm	46.7	1186	49.3	1253	52.1	1323	na	na	
18	ESR 1040-35	in mm	46.7	1186	49.3	1253	52.1	1323	na	na	
18	ESR 1060-30	in mm	50.4	1281	52.7	1338	55.5	1410	na	na	
18	ESR 1060-35	in mm	50.7	1288	53.0	1345	55.8	1417	58.6	1489	
18	ESR 1060-45	in mm	na	na	53.0	1345	55.8	1417	58.6	1489	
Reach											
25	ESR 1040-30	in mm	25.2	639	22.5	572	19.8	503	na	na	
25	ESR 1040-35	in mm	28.9	734	26.3	667	23.5	598	na	na	
25	ESR 1060-30	in mm	21.4	544	19.2	487	16.3	415	na	na	
25	ESR 1060-35	in mm	26.1	662	23.8	605	21.0	533	18.2	461	
25	ESR 1060-45	in mm	na	na	23.8	605	21.0	533	18.2	461	

Bolt-on spacer kit will be included as standard.

All ESR 1020-30 and 1040-30 models with a lift height ≥ 313" (7950 mm), or 1020-35 and 1040-35 models, will have a TT mast and an integratd sideshifter, this adds 1.8" (46 mm) to load distance retracted and head length.

		ESR 1020		Standard								
		ESR 1040				Standard						
		ESR 1060				Standard		Option		Standard		
	Track Width Rear	in mm	38.8	985	46.3	1177	45.1	1146	51.9	1317	58.1	1476
19	Overall width rear - chassis bottom	in mm	44.1	1120	50.6	1285	50.6	1285	56.1	1425	62.0	1575
	Overall width rear - chassis middle section	in mm	43.6	1108	50.0	1269	50.0	1269	50.0	1269	50.0	1269
24	Fork Carriage	in mm	29.5	750	29.5	750	29.5	750	29.5	750	38.6	980
23	Width across forks, max.	in mm	27.4	695	27.4	695	27.4	695	27.4	695	36.4	925
	Width inside straddle	in mm	35.6	905	38.0	965	42.1	1070	43.5	1105	49.4	1255
21	Sideshift Movement (Left/Right)	in mm	2.0	50	2.8	70	2.8	70	2.8	70	3.9	100

ESR 1000 Series

Specifications

		TL Tilting Mast																			
Mast Chart ESR 1020/1040		ESR 1020-30*/ESR 1040-30*																			
Dimensions	12	Lift Height	in mm	109	2760	121	3070	137	3490	150	3810	161	4080	176	4480	185	4710	195	4950	207	5250
	13	Free Lift Height*	in mm	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100
	14	Mast Collapsed Ht	in mm	78	1990	85	2150	93	2360	99	2520	104	2650	112	2850	117	2970	122	3090	128	3240
	15	Mast Extended Ht*	in mm	130	3305	143	3620	159	4045	172	4360	182	4630	198	5030	207	5260	217	5500	228	5800
	22	Mast Tilt	Degree	F°/B°	2/4		2/4		1/3		1/3		1/3		1/3		1/3		1/3		1/3

		TT Tilting Mast																			
Mast Chart ESR 1020/1040		ESR 1020-30*/ESR 1040-30*																			
Dimensions	12	Lift Height	in mm	166	4210	184	4680	209	5315	228	5790	244	6190	268	6795	281	7140	295	7500	303	7700
	13	Free Lift Height*	in mm	56	1415	62	1570	70	1785	77	1945	82	2075	90	2275	94	2395	99	2515	107	2710
	14	Mast Collapsed Ht	in mm	76	1935	82	2090	91	2305	97	2465	102	2595	110	2795	115	2915	119	3030	127	3235
	15	Mast Extended Ht*	in mm	187	4740	205	5210	230	5850	249	6325	265	6725	288	7320	302	7675	316	8035	324	8235
	22	Mast Tilt	Degree	F°/B°	1/3		1/3		1/3		1/3		1/3		0.5/3		0.5/3		0.5/3		0.5/3

		TT Tilting Carriage											
Mast Chart ESR 1020/1040		ESR 1020-30*/ESR 1040-30*								ESR 1040-30*			
Dimensions	12	Lift Height	in mm	313	7950	331	8415	349	8850	358	9090	372	9450
	13	Free Lift Height*	in mm	99	2515	105	2670	111	2815	114	2900	119	3015
	14	Mast Collapsed Ht	in mm	126	3190	132	3350	137	3490	141	3570	145	3690
	15	Mast Extended Ht*	in mm	336	8525	354	8990	371	9425	381	9665	395	10025
	22	Carriage Tilt	Degree	F°/B°	2/4		2/4		2/4		2/4		2/4

* All -30 models with lift heights ≥ 313" (7950 mm) will have sideshifter.

For Lift Heights below 313" (7950 mm) with a sideshifter, Free Lift Height will be reduced by 3.9" (100 mm) and Mast Extended Height will increase by 0.59" (15 mm).

		TL Tilting Mast																			
Mast Chart ESR 1020/1040		ESR 1020-35**/ESR 1040-35**																			
Dimensions	12	Lift Height	in mm	109	2760	121	3070	137	3490	150	3810	161	4080	176	4480	185	4710	195	4950	207	5250
	13	Free Lift Height**	in mm	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100	3.9	100
	14	Mast Collapsed Ht	in mm	78	1990	85	2150	93	2360	99	2520	104	2650	112	2850	117	2970	122	3090	128	3240
	15	Mast Extended Ht**	in mm	130	3305	143	3620	159	4045	172	4360	182	4630	198	5030	207	5260	217	5500	228	5800
	22	Mast Tilt	Degree	F°/B°	0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3

		TT Tilting Mast																			
Mast Chart ESR 1020/1040		ESR 1020-35**/ESR 1040-35**																			
Dimensions	12	Lift Height	in mm	166	4210	184	4680	209	5315	228	5790	244	6190	268	6795	281	7140	295	7500	303	7700
	13	Free Lift Height**	in mm	56	1415	62	1570	70	1785	77	1945	82	2075	90	2275	94	2395	99	2515	107	2710
	14	Mast Collapsed Ht	in mm	76	1935	82	2090	91	2305	97	2465	102	2595	110	2795	115	2915	119	3030	127	3235
	15	Mast Extended Ht**	in mm	187	4740	205	5210	230	5850	249	6325	265	6725	288	7320	302	7675	316	8035	324	8235
	22	Mast Tilt	Degree	F°/B°	0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3		0.5/3

		TT Tilting Carriage											
Mast Chart ESR 1020/1040		ESR 1020-35**/ESR 1040-35**								ESR 1040-35**			
Dimensions	12	Lift Height	in mm	313	7950	331	8415	349	8850	358	9090	372	9450
	13	Free Lift Height**	in mm	99	2515	105	2670	111	2815	114	2900	119	3015
	14	Mast Collapsed Ht	in mm	126	3190	132	3350	137	3490	141	3570	145	3690
	15	Mast Extended Ht**	in mm	336	8525	354	8990	371	9425	381	9665	395	10025
	22	Carriage Tilt	Degree	F°/B°	2/4		2/4		2/4		2/4		2/4

** All -35 models will have sideshifter.

For Lift Heights below 313" (7950 mm) with a sideshifter, Free Lift Height will be reduced by 3.9" (100 mm) and Mast Extended Height will increase by 0.59" (15 mm).

ESR 1000 Series

Specifications

			TT 4-Roller Tilting Carriage								
Mast Chart ESR 1060			ESR 1060-30/35†								
Dimensions	12	Lift Height	in mm	175	4440	192	4890	210	5340	228	5790
	13	Free Lift Height	in mm	53	1345	59	1495	65	1645	71	1795
	14	Mast Collapsed Ht	in mm	80	2020	85	2170	91	2320	97	2470
	15	Mast Extended Ht	in mm	197	5015	215	5465	233	5915	251	6365

			TT 4-Roller Tilting Carriage								
Mast Chart ESR 1060			ESR 1060-30/35†								
Dimensions	12	Lift Height	in mm	240	6090	263	6690	281	7140	295	7500
	13	Free Lift Height	in mm	75	1895	83	2095	88	2245	93	2365
	14	Mast Collapsed Ht	in mm	101	2570	109	2770	115	2920	120	3040
	15	Mast Extended Ht	in mm	262	6665	286	7265	304	7715	318	8075

			TT 4-Roller Tilting Carriage										
Mast Chart ESR 1060			ESR 1060-30/35†										
Dimensions	12	Lift Height	in mm	313	7950	331*	8415*	348*	8850*	358*	9090*	372*	9450*
	13	Free Lift Height	in mm	99	2515	105	2670	111	2815	114	2895	119	3015
	14	Mast Collapsed Ht	in mm	126	3190	132	3350	137	3490	141	3570	145	3690
	15	Width across forks, max.	in mm	336	8525	354	8990	371	9425	381	9665	395	10025

			TT 4-Roller Tilting Carriage												
Mast Chart ESR 1060			ESR 1060-35†												
Dimensions	12	Lift Height	in mm	390*	9900*	403*	10230*	413*	10500*	421*	10700*	427*	10835*	435*	11045*
	13	Free Lift Height	in mm	125	3170	129	3280	132	3365	139	3535	141	3580	144	3650
	14	Mast Collapsed Ht	in mm	151	3840	156	3950	159	4040	166	4205	167	4250	170	4320
	15	Mast Extended Ht	in mm	412	10475	425	10805	436	11070	444	11270	449	11405	457	11615

			TT 6-Roller Tilting Carriage Super Duty						
Mast Chart ESR 1060			ESR 1060-35†						
Dimensions	12	Lift Height	in mm	427*	10835*	435*	11045*	450*	11435*
	13	Free Lift Height	in mm	141	3580	144	3650	149	3780
	14	Mast Collapsed Ht	in mm	167	4250	170	4320	175	4450
	15	Mast Extended Ht	in mm	451	11460	459	11670	475	12060

*No Option 1 Battery

† ESR 1060 models ordered with the Xpress Lower option will increase the mast collapsed height and free lift height by 3.15" (80 mm) ± 0.2" (5 mm) and increase the mast extended height by a maximum of 3.5" (90 mm).

ESR 1000 Series

Specifications

			TT 6-Roller Tilting Carriage								
Mast Chart ESR 1060			ESR 1060-45†								
Dimensions	12	Lift Height	in mm	163*	4145*	181*	4595*	216*	5495*	252*	6395*
	13	Free Lift Height	in mm	53	1350	59	1500	71	1800	83	2100
	14	Mast Collapsed Ht	in mm	80	2020	85	2170	97	2470	109	2770
	15	Mast Extended Ht	in mm	188	4770	206	5220	241	6120	276	7020

			TT 6-Roller Tilting Carriage								
Mast Chart ESR 1060			ESR 1060-45†								
Dimensions	12	Lift Height	in mm	270*	6845*	284*	7205*	320*	8120*	361*	9155*
	13	Free Lift Height	in mm	89	2250	93	2370	105	2675	119	3020
	14	Mast Collapsed Ht	in mm	115	2920	120	3040	132	3350	145	3690
	15	Mast Extended Ht	in mm	294	7470	308	7830	344	8745	385	9780

			TT 6-Roller Tilting Carriage										
Mast Chart ESR 1060			ESR 1060-45†										
Dimensions	12	Lift Height	in mm	378*	9605*	391*	9935*	426*	10835*	450*	11435*	473*	12010*
	13	Free Lift Height	in mm	125	3170	129	3280	141	3580	149	3780	156	3970
	14	Mast Collapsed Ht	in mm	151	3840	156	3950	167	4250	175	4450	183	4640
	15	Mast Extended Ht	in mm	403	10230	416	10560	451	11460	475	12060	497	12635

			TT 6-Roller Tilting Carriage Super Duty								
Mast Chart ESR 1060			ESR 1060-45†								
Dimensions	12	Lift Height	in mm	391**	9935**	426**	10835**	450**	11435**		
	13	Free Lift Height	in mm	148	3750	159	4050	167	4250		
	14	Mast Collapsed Ht	in mm	174	4420	186	4720	194	4920		
	15	Mast Extended Ht	in mm	416	10560	451	11460	475	12060		

			TT 6-Roller Tilting Carriage Super Duty								
Mast Chart ESR 1060			ESR 1060-45†								
Dimensions	12	Lift Height	in mm	473**	12000**	496**	12600**	512**	13000**	534**	13560**
	13	Free Lift Height	in mm	175	4435	183	4635	188	4770	195	4960
	14	Mast Collapsed Ht	in mm	201	5110	209	5310	214	5440	222	5630
	15	Mast Extended Ht	in mm	497	12620	521	13220	537	13625	558	14185

*No Option 1 Battery

**No Option 1 or 2 Battery

† ESR 1060 models ordered with the Xpress Lower option will increase the mast collapsed height and free lift height by 3.15" (80 mm) ± 0.2" (5 mm) and increase the mast extended height by a maximum of 3.5" (90 mm).

Standard ● / Optional ○	ESR 1020	ESR 1040	ESR 1060
Truck Features			
44.1" (1120 mm) overall width	●	●	●
50.6" (1285 mm) overall width	●	●	●
56.1" (1425 mm) overall width			○
62" (1575 mm) overall width*			○
3000 lb (1400 kg) lift capacity at 24" (600 mm) load center	●	●	●
3500 lb (1600 kg) lift capacity at 24" (600 mm) load center	●	●	●
4500 lb (2000 kg) lift capacity at 24" (600 mm) load center	●	●	●
Battery Compartment			
Battery rollers for horizontal extraction	○	○	○
SB 350 connector blue	●	●	●
SB 350 connector red	○	○	○
Li-Ion ready	○	○	○
Controls and Instruments			
Gena operating system control	●	●	●
7" color touch screen display tiltable with navigation keypad	●	●	●
Display Navigation Knob	○	○	○
Keyless start-up with User Access Code (ID reader also included)	●	●	●
Key switch start-up (ID reader not available)	○	○	○
Travel/steer direction indicator	●	●	●
Real-time clock and date	●	●	●
Battery discharge indicator with lift lockout	●	●	●
Hour meters for various system functions	●	●	●
Fingertip hydraulic controls	●	●	●
Dual lever hydraulic controls	○	○	○
Multi-task hydraulic controls	○	○	○
Driving Features			
Cornering Speed Control	●	●	●
e-GEN® braking system	●	●	●
On-Trac™ anti slip traction + brake	●	●	●
Loadwheel brake system	④	④	●
Ramp hold automatic braking for slopes + push-back rack	●	●	●
Electro-mechanical parking brake	●	●	●
Selectable performance levels (F1, F2, P1, P2, P3)	●	●	●
360 Select™ steering system + indicator	●	●	●
Lifting Features			
Offset mast design	●	●	●
Tilting duplex mast (TL)	○	○	
Tilting triplex mast (TT)	①	①	
Integrated sideshift for tilting masts	○	○	
Triplex mast (TT) with tilting fork carriage and sideshift	②	②	●
Patented Xpress Lower™ faster mast lowering speed incl. Regen Lower			○
Tilt and sideshift single activation	●	●	
Tilt Position Assist (TPA)	⑥	⑥	○
Lift height and load weight indicator	⑥	⑥	○
Free lift indicator	●	●	●
Auto Height Select (AHS)	⑥	⑥	○
Capacity Data Monitor (CDM)	⑥	⑥	○
Sideshift Position Assist (SPA)	⑥	⑥	○
Lift speed reduction before maximum height	●	●	●
Travel speed reduction above 1000 mm lift height	○	○	○
Travel speed reduction above free lift	●	●	●
No load on outrigger function + override switch	③	③	③
Five raise cutouts with override switch incl. zone select	○	○	○
Color camera system (fork or mast mounted)	⑤	⑤	⑧
ISO class 2 fork carriage	●	●	●
Forktip indicators	●	●	●
4th hydraulic function	○	○	●

* 62" overall width requires 3.9" (100 mm) sideshifter

Standard ● / Optional ○	ESR 1020	ESR 1040	ESR 1060
Lifting Features			
5th hydraulic function			○
Load backrest	○	○	●
Operator Comfort			
Panorama Glass Overhead Guard		○	○
High-visibility overhead guard	●	●	●
Plexiglass or mesh overhead guard cover	○	○	○
MSG 65 seat with adjustable lumbar support	○	○	●
FlexBack™ seat backrest			○
Suspension seat	●	●	
Heated vinyl seat	○	○	○
Heated cloth seat	○	○	○
Headrest	○	○	○
Controls mounted on armrest		●	●
Armrest adjustable back + forth	⑦	●	●
Armrest adjustable back + forth + tiltable armrest pad		○	○
Adjustable steering column with tools	●	●	
Adjustable steering column without tools	○	○	●
Automotive-type accelerator and brake pedals	●	●	●
Multiple storage areas for tools	●	●	●
Low, wide entry step	●	●	●
Desktop with clipboard	○	○	●
Speaker	●	●	●
Safety Features			
Operator presence pedal	●	●	●
Seat switch	●	●	●
Power disconnect switch	●	●	●
Safety reminders	●	●	●
Maintenance Features			
Event code history	●	●	●
Built-in diagnostic system	●	●	●
InfoPoint™ maps	●	●	●
Brushless AC motors	●	●	●
Swing-out seat deck for easy access	●	●	●
InfoLink® fleet management system hardware, integrated	●	●	●
Work Assist® Accessories			
Clipboard	○	○	○
Scan gun holder	○	○	○
Adjustable arm for WMS monitor	○	○	○
12, 24 or 48V power supply	○	○	○
Reading light	○	○	○
Trash bin			○
Beverage holder	○	○	○
Storage pocket	○	○	○
USB-Port	○	○	○
Lighting and Warning Device Options			
Work lights (halogen or LED)	○	○	○
Flashing light (strobe or LED)	○	○	○
Blue floor spot light	○	○	○
Audible travel alarm	○	○	○
Rearview mirror	○	○	○
Laser guidance system	○	○	○
Special Applications			
Drive-in rack overhead guard	○	○	○
Aisle guide rollers	○	○	○
Coldstore condition to -22°F (-30°C)	○	○	○
Coldstore cabin with environmental control			○
Load wheel protection			○

① Lift heights ≤ 303" (7700 mm)

② Lift heights > 303" (7700 mm)

③ Stops forks above outriggers if mast is retracted

④ ESR 1020/1040 -30 tilt mast no load wheel brake

⑤ Lift height ≥ 313" (7950 mm) only

⑥ Not applicable for tilt mast

⑦ ESR 1020 Armrest fixed

⑧ Mast camera for lift heights above 240" (6090 mm) only

Operator Compartment and Controls

A comfortable low, wide step speeds entry. Non-slip floor mat ensures smooth and safe entry/exit. Once seated, the operator position can be adjusted to suit small and large operators.

A 7" (17.8 cm) color touchscreen delivers real-time information on the truck's operating status. Thirteen selectable widgets allow the operator to customize the display.

The travel direction switch, accessory controls, Auto Height Select and all hydraulic functions are at the operator's fingertip. Operators can maneuver the truck while blending lift and attachment functions to improve productivity.

The ergonomic armrest is wide and soft with fore and aft adjustment. There are five easily accessible storage compartments and an optional on-board USB-Port for charging mobile devices.

Gena operating system

Crown's next generation lift truck operating system with integrated InfoLink hardware helps improve performance and safety by making it easy for operators and technicians to see, understand and use vital information. It provides a real-time, data-rich user experience and enhanced control of all primary lift truck systems.

- Traction motor control
- Hydraulic valve and motor control
- Steer & Brake motor control
- Programmable performance profiles
- Personalized information/advanced diagnostic display/operator messaging
- Safety checklists and Dynamic Coaching

The Gena user experience is designed to let operators easily adapt the display for the specific task at hand. Screens also offer context-sensitive help including alerts, automated assistance, dynamic data and coaching.

The Crown display is used for easy trouble shooting, accessing service history and setting performance features. No handset or laptop required – all functions are on-board and easy to use.

Productivity Features

Speed up your productivity with optional Xpress Lower and Super Duty Mast. This exclusive technology lets you double lowering speeds, resulting in substantial savings in time and money.

Auto Height Select with one-touch control provides precision load stop at programmed rack heights. Tilt Position Assist with mast deflection compensation ensures the forks are level to the ground, regardless of load weight. Capacity Data Monitor provides visual indication and warning when limits are reached. Mast reach/retract speed adjusts depending on lift height and load for more confident handling.

Traction Control

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 increases traction performance in wet, dusty or freezer conditions.

Travel

Crown's AC traction system is a closed loop traction control system that maintains top speed throughout the battery charge. Engineered and manufactured by Crown, the AC motor, controller and drive unit are designed specifically for lift truck applications.

Crown's intelligent Cornering Speed Control recognizes whether the operator is driving into or out of a curve, with the system analyzing steer tire angle, driving direction and steering direction. It then automatically adjusts speed and acceleration for maximum safe performance. Ramp Hold is an automatic braking function for slopes and push-back racks.

Hydraulic System

The control system for the hydraulic pump motor and proportional valves facilitates precise and sensitive execution of all hydraulic functions. All hydraulic parameters such as lift, lower, tilt, side shift, and reach speeds are fully adjustable and can therefore be adapted to different applications.

Moving Mast

Crown's unique offset, wide view mast delivers excellent visibility at height as well as for low-level operations. Mast cross-bracing and overhead guard bracing have been angled, and hose and chain rollers have been canted to further enhance visibility.

ESR 1000 Series

The ESR 1020 and 1040 features a range of duplex and triplex masts with limited or full free lift. Tilting masts can compensate for uneven floors common in wet and outdoor applications.

The ESR 1060 features heavy & super duty triplex masts with full free lift, integrated side shift and tilting fork carriage. Mast channels are reinforced to minimize static and dynamic deflection when storing heavy loads at tall lift heights.

Drive unit

A highly efficient drive unit with Rhein-tacho sensor, helical gearing, integrated pinion and vertically mounted 3-phase (AC) noise reduced traction motor provides silent, powerful traction performance. The large heavy duty poly drive wheel offers high load capacity, long lift, and excellent travel comfort.

Steering

360 Select™ control system allows the operator to choose between 180° and 360° steer tire rotation to match driving conditions, experience level or personal preference. The system can be locked in either mode with password-protected access.

Braking

A disc brake on the motor armature shaft combined with motor regenerative e-GEN braking provides sure braking with fewer parts and maintenance requirements.

A foot pedal applies the service brake. The truck can also be brought to a stop by reversing the travel direction using the electric regenerative plugging function.

The parking brake is activated automatically when the truck comes to a stop. Once the operator has their feet on both pedals and has selected the travel direction, the parking brake will automatically be released.

Motors

The Crown manufactured 3-phase (AC) motors deliver high torque and seamless reversal. Traction and hydraulic motors are oversized for superior thermal capability and are especially suitable for high lift heights, high loads and high ambient temperature applications.

Technical Information

Warning Device Options

Audible or Visual Alerts

Safety considerations and dangers associated with audible travel alarms and lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights 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 truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.



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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.

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

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