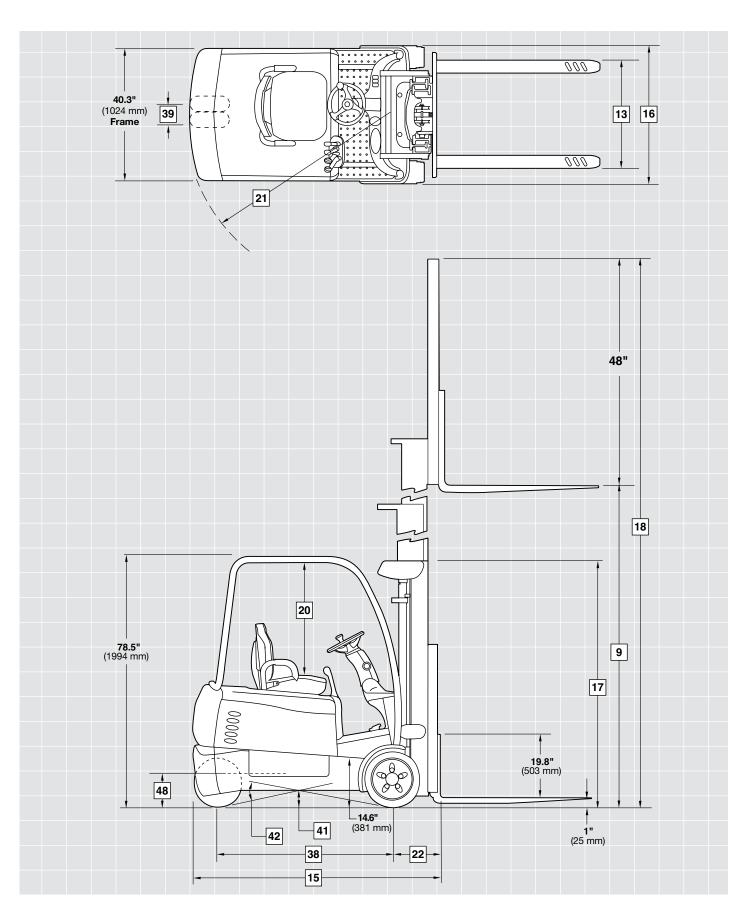


SC 5200 SERIES







					Imporial	Matria	Immorial	Metric	Imporial	Matria		
	1	Manufacturer			Imperial	Metric	Imperial	ent Corporati	Imperial	Metric		
General Information	2	Model		SC	521	X-30		X-30		X-35		
Jati	3	*******	Rated to 154" (3911 mm		3000	1361	3000	1361	3500	1588		
Ĕ	_		,									
뒫	4	Load Center	Fork Face to Load CG	in mm	24	600	24	600	24	600		
=	5	Power	Electric					3 Volts				
ē	6	Operator Type						n Rider				
ē	7	Tire Type	Press-on Solid				Cus	hion				
ဗ	8	Wheels (x = driven)	Number Front/Rear				2>	√2				
	9	Mast**	Lifting Height	in mm	190	4825	190	4825	190	4825		
	11		Free Lift Height†	in mm	35	885	35	885	35	885		
	12	Fork Carriage	<u> </u>				ITA C	lass II				
	13	Forks	Standard L x W x T	in mm	36x4x1.5	915x102x38	36x4x1.5	915x102x38	36x4x1.75	915x102x45		
	13	FORKS			00/1/1.0		00X+X1.0			760, 815,		
			Optional Lengths	in mm	30, 39, 42, 45, 48, 54,	760, 990, 1065, 1145, 1220, 1370,	30, 39, 42, 45, 48, 54,	760, 990, 1065, 1145, 1220, 1370,	30, 32, 39, 40, 42, 43.31, 45,	990, 1015, 1065, 1100, 1145, 1220,		
Dimensions			Fork Spread-Min/Max	in mm	60, 63, 72	1525, 1600, 1830	60, 63, 72	1525, 1600, 1830	48, 54, 60, 72	1370, 1525, 1830 230/840		
Su	4.4	Tilt	B°/F°		9/33	230/840	9/33	230/840 /5	9/33	230/640		
Ĕ			υ /F	degree	00.5	1710			70.0	1054		
ן בּ				in mm	68.5	1740	72.8	1849	73.0	1854		
	16	Width Overall	Standard Tread	in mm	42.0	1067	42.0	1067	42.0	1067		
	17	Height	Mast Collapsed	in mm	83	2110	83	2110	83	2110		
	18		Mast Extended†	in mm	238	6045	238	6045	238	6045		
	20	Seat to Bottom of OHG Clearance (Loaded)	Std / Suspension	in mm	39.06/38.69	992/982	39.06/38.69	992/982	39.06/38.69	992/982		
	21	Turning Radius		in mm	54.2	1377	58.5	1486	58.5	1486		
	22	Load Distance***	Wheel Cntr to Fork Face	e in mm	14.3	365	14.3	365	14.5	370		
	23	Aisle Width	Right Angle Stack	in mm		Turn Radius +	Load Distance	e + Load Leng	th + Clearance	€		
	24a	Speed Travel†† 36V	Empty/Loaded m	ph km/h	8.5/7.6	13.7/12.2	8.5/7.6	13.7/12.2	8.5/7.6	13.7/12.2		
ø	24b	48V		ph km/h	9.5/8.9	15.3/14.3	9.5/8.9	15.3/14.3	9.5/8.9	15.3/14.3		
Performance	25a	Speed Lift†† 36V DC	' '	fpm m/s	90/63	0.46/0.32	90/63	0.46/0.32	90/60	0.46/0.30		
Ë	25b	36V AC	' '	•	110/72	0.56/0.37	110/72	0.56/0.37	110/69	0.56/0.35		
.5				fpm m/s								
e	25c	48V AC		fpm m/s	110/77	0.56/0.39	110/77	0.56/0.39	110/75	0.56/0.38		
₽	26a	Speed Lower Manual		fpm m/s	90/90	0.46/0.46	90/90	0.46/0.46	90/90	0.46/0.46		
	26b	EPV	Empty/Loaded	fpm m/s	100/100	0.51/0.51	100/100	0.51/0.51	100/100	0.51/0.51		
Weight	32	Weight, Less Battery		lb kg	6149	2790	5974	2710	6216	2820		
eig.	33	Axle Load with	Unloaded Front	lb kg	4047	1835	4300	1950	4316	1960		
≥	34	Max Battery	Unloaded Rear	lb kg	3852	1745	3924	1780	4150	1880		
	35	Tires	Number Front/Rear				2,	/2				
	36	Tiles	Size Front	in mm	18x7x12.1	457x178x307	18x7x12.1	457x178x307	18 x 7 x 12.1	457x178x307		
	37		Size Rear	in mm		381x127x286		381x127x286		381x127x286		
	38	Wheelbase		in mm	46.2	1173	50.5	1283	50.5	1283		
<u>.c.</u>	39	Tread Width	Front	in mm	35.0	889	35.0	889	35.0	889		
355	39	i i eau wiuui	Rear	in mm	6.7	170	6.7	170	6.7	170		
Chassis	40	Ground Clearance,	Lowest Point	in mm	3.0	76	3.0	76	3.0	76		
٦	41	Loaded	Center of Wheelbase	in mm	4.8	122	5.0	127	5.0	127		
	42	Grade Clearance, Loaded	2 22 23 23 23 23 23 23 23 23 23 23 23 23	%		7.1		1.6		1.6		
	43		Service									
	44	Brakes	Parking		Foot - Motor Auto - Electric							
-		Pottom/	-			,						
	45	Battery	Type	_	10		Acid	680				
	46	92	Capacity	AH		10		30				
_		9999	10/-1-I-1	kWh		7.8		3.7		3.7		
e l	47		Weight - Min	lb kg	1475	670	1850	840	1850	840		
Battery			Weight - Max	lb kg	1750	795	2250	1025	2250	1025		
ш			Size - Max	Length	16.63	422	20.87	530	20.87	530		
		L		Width	38.81	986	38.81	986	38.81	986		
	40	Datter Florida	M/H- Dell / / D "	Height	22.63 †††	579 †††	22.63 †††	579 †††	22.63 †††	579 †††		
	48	Battery Floor Height	With Rollers/ w/o Rollers	in mm	10.4/9.8	264/249	10.4/9.8	264/249	10.4/9.8	264/249		
	49	Motors	Traction Motor, dia	in mm	7.5	191	7.5	191	7.5	191		
6												
Motors	50 51	Operating Pressure	Lift Motor, dia For Attachments	in mm psi bar	6.7 Up to 3100	170 Up to 214	6.7 Up to 3100	170 Up to 214	6.7 Up to 3100	170 Up to 214		

Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact your local dealer. Other mast heights available. See chart for other standard mast heights.

Add 4.25" (108 mm) for quad masts, add 1.4" (36 mm) for Crown integrated sidesift, add 2.3" (59 mm) for hook on sideshift, add 1.9" (49 mm) for TF mast sideshift.

Includes load backrest.

Performance specifications are based on a truck equipped with a 190" (4825 mm) triple telescopic mast.

^{†††} Without Battery Comp't Rollers - Max battery height is 23.29" (599 mm) at the battery center lifting eye and 22.63" (575 mm) at the battery front corner. With Battery Comp't Rollers - Max battery height is 22.80" (579 mm) at the battery center lifting eye and 22.14" (562 mm) at the battery front corner.

					Imperial	Metric	Imperial	Metric				
ے	1	Manufacturer				Crown Equipme	ent Corporation					
Ę	2	Model		SC	524)	X-35	524X-40					
m	Ω	Load Capacity*	Rated to 154" (3911 r	nm) lb kg	3500	1588	4000	1814				
fo	4	Load Center	Fork Face to Load C	G in mm	24	600	24	600				
= [5	Power	Electric			36/48	Volts					
General Information	6	Operator Type				Sit-dow	n Rider					
e	7	Tire Type	Press-on Solid		Cushion							
9	8	Wheels (x = driven)	Number Front/Rear			2x	:/2					
	9	Mast**	Lifting Height	in mm	190	4825	190	4825				
ĺ	11		Free Lift Height†	in mm	35	885	35	885				
Ì	12	Fork Carriage				ITA C	lass II					
Ì	13	Forks	Standard L x W x T	in mm	36x4x1.75	915x102x45	36x4x1.75	915x102x45				
İ	.0		Optional Lengths	in mm	00 00 00 10	760, 815, 990,	00 00 00 40	760, 815, 990,				
					30, 32, 39, 40, 42, 43.31, 45,	1015, 1065, 1100, 1145,	30, 32, 39, 40, 42, 43.31, 45,	1015, 1065, 1100, 1145,				
					48, 54, 60, 72	1220, 1370,	48, 54, 60, 72	1220, 1370,				
S					, , ,	1525, 1830		1525, 1830				
. <u>ē</u>			Fork Spread-Min/M	ax in mm	9/33	230/840	9.5/36	240/915				
Dimensions	14	Tilt	B°/F°	degree		5,	/5					
Ë	15	Headlength***		in mm	77.2	1960	77.2	1960				
	16	Width Overall	Standard Tread	in mm	42.0	1067	42.0	1067				
[17	Height	Mast Collapsed	in mm	83	2110	83	2110				
Į	18		Mast Extended†	in mm	238	6045	238	6045				
	20	Seat to Bottom of OHG Clearance (Loaded)	Std / Suspension	in mm	39.06/38.69	992/982	39.06/38.69	992/982				
Ì	21	Turning Radius		in mm	62.7	1595	62.7	1595				
ľ	22	Load Distance***	Wheel Cntr to Fork Fa	ace in mm	14.5	370	14.5	370				
İ	23	Aisle Width	Right Angle Stack	in mm	Turn Rac	dius + Load Distance	e + Load Length + C	learance				
	24a	Speed Travel†† 36V	Empty/Loaded	mph km/h	8.5/7.6	13.7/12.2	8.5/7.6	13.7/12.2				
H	24b	48V	Empty/Loaded	mph km/h	9.5/8.9	15.3/14.3	9.5/8.9	15.3/14.3				
	25a	Speed Lift†† 36V DC	Empty/Loaded	fpm m/s	90/60	0.46/0.30	90/58	0.46/0.29				
Ĕ	25b	36V AC	Empty/Loaded	fpm m/s	110/69	0.56/0.35	110/67	0.56/0.34				
원	25c	48VAC	Empty/Loaded	fpm m/s	110/75	0.56/0.38	110/73	0.56/0.37				
Pe	26a	Speed Lower Manual	Empty/Loaded	fpm m/s	90/90	0.46/0.46	90/90	0.46/0.46				
	26b	EPV	Empty/Loaded	fpm m/s	100/100	0.51/0.51	100/100	0.51/0.51				
Ħ	32	Weight, Less Battery		lb kg	6040	2740	6260	2840				
Weight	33	Axle Load with	Unloaded Front	lb kg	4518	2050	4506	2845				
š	34	Max Battery	Unloaded Rear	lb kg	4122	1870	4355	1975				
	35	Tires	Number Front/Rear			2,	/2					
Ì	36		Size Front	in mm	18x7x12.1	457x178x307	18x7x12.1	457x178x307				
İ	37		Size Rear	in mm	15x5x11.25	381x127x286	15x5x11.25	381x127x286				
Ì	38	Wheelbase		in mm	54.7	1390	54.7	1390				
sis	39	Tread Width	Front	in mm	35.0	889	35.0	889				
Chassis			Rear	in mm	6.7	170	6.7	170				
<u>ဝ</u> [40	Ground Clearance, Loaded	Lowest Point	in mm	3.0	76	3.0	76				
[41	•	Center of Wheelbas		5.0	127	5.0	127				
ļ	42	Grade Clearance, Loaded		%	22		22	2.4				
ļ	43	Brakes	Service				Motor					
	44		Parking				Electric					
ļ	45	Battery	Туре				Acid					
	46		Capacity	AH	85		85					
_		99999	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	kWh	29		29					
Battery	47		Weight - Min	lb kg	2250	1025	2250	1025				
3at			Weight - Max	lb kg	2600	1180	2600	1180				
ш			Size - Max	Length Width	25.13 38.81	638 986	25.13 38.81	638 986				
		L		Height	22.63 †††	579 †††	22.63 †††	986 579 †††				
ŀ	48	Battery Floor Height	With Rollers/ w/o Rolle		10.4/9.8	264/249	10.4/9.8	264/249				
Motors	49	Motors	Traction Motor, dia	in mm	7.5	191	7.5	191				
⊼	50	11101013	Lift Motor, dia	in mm	6.7	170	6.7	170				
ᅔ	<u> </u>											

Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact your local dealer. Other mast heights available. See chart for other standard mast heights.

Add 4.25" (108 mm) for quad masts, add 1.4" (36 mm) for Crown integrated sidesift, add 2.3" (59 mm) for hook on sideshift, add 1.9" (49 mm) for TF mast sideshift.

Includes load backrest.

[†] Performance specifications are based on a truck equipped with a 190" (4825 mm) triple telescopic mast.
†† Without Battery Comp't Rollers - Max battery height is 23.29" (592 mm) at the battery center lifting eye and 22.63" (575 mm) at the battery front corner.
With Battery Comp't Rollers - Max battery height is 22.80" (579 mm) at the battery center lifting eye and 22.14" (562 mm) at the battery front corner.

Ma	st Chart SC 5200 Series	TF				π									
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
9	Lifting Height	114	2895	126	3200	172	4365	190	4825	208	5280	226	5740	241	6120
11	Free Lift Height*	29	735	35	889	29	735	35	885	41	1040	47	1190	52	1320
14	Tilt B/F (degree)	5/5**	5/5**	5/5**	5/5**	5/5	5/5	5/5	5/5	5/5	5/5	3/5	3/5	3/5	3/5
17	Mast Collapsed Height	77	1955	83	2110	77	1955	83	2105	89	2260	95	2410	100	2540
18	Mast Extended Height*	162.5	4130	174.5	4430	220.5	5605	238.5	6060	256.5	6515	274.5	6975	289.5	7355

Mas	st Chart SC 5200 Series	QUAD										
		in	mm									
9	Lifting Height	240	6095	246	6245	258	6550	264	6705	276	7010	
11	Free Lift Height*	36	910	38	965	41	1040	44	1115	47	1190	
14	Tilt B/F (degree)	5/5**	5/5**	3/5**	3/5**	3/5**	3/5**	3/5**	3/5**	3/5**	3/5**	
17	Mast Collapsed Height	83	2105	86	2180	89	2260	92	2335	95	2410	
18	Mast Extended Height*	288	7315	294	7470	306	7775	312	7925	324	8230	

^{*} Includes load backrest.

Standard Equipment

- Crown's Access 1 2 3°
 Comprehensive
 System Control
- 2. e-GEN® Braking System with automatic parking brake
- 3. Intrinsic Stability System®
 - Travel speed reduction and appropriate brake control when forks are above free lift
 - Forward tilt interlock above free lift
 - Controlled tilt speeds
 - Counterweight exceeds required standards
 - Cornering speed control
 - Ramp hold
 - Ramp speed control
- 4. 36/48-volt system
- 5. Driveability standard features
 - 15" (381 mm) step height
 - Large, uncluttered floorboard
 - Rubber floor mat
 - Rubber accelerator and brake pedal
 - Large, entry/exit "window"
 - Contoured battery cover for easy entry/exit
 - Crown FlexSeat[™] fabric with hip restraint and anticinch seatbelt
 - Compact steering wheel and steering column

- Infinitely adjustable tilt steering
- Operator forward design for enhanced visibility
- Low cowl for fork and floor visibility
- Nylon covered manual hydraulic control levers with integrated tactile feedback
- Natural position for forward/reverse selector
- Automatic parking brake
- Crown FlexSeat with a passive suspension and back flex
- 6. Crown display
 - Battery discharge indicator with lift interrupt and re-key feature
 - Hour meters / travel distance / stop watch
 - Pin code access capable
 - Event code display with five (5) key navigation
 - Access 1 2 3 diagnostics
 - P1, P2, P3 Performance tuning
- 7. 350 amp battery connector
- 8. InfoPoint® System with Quick Reference Guide
- 9. Color-coded wiring
- 10. Lift out or side removal battery access
- 11. Dual 15" (381 mm) steer tires
- 12. Large 18" (457 mm) cushion drive tires

SC 5200 Series

- Crown-manufactured drive and lift motors
- 14. Proportional rack and pinion steering
- 15. Waterfall design overhead guard
- 16. 48" (1220 mm) high load backrest
- 17. No tool lift out floorboards for service access
- 18. High visibility mast with in-line hose routing
- 19. O-ring face seal hydraulic fittings
- 20. 5° Forward / 5° Back tilt
- 21. All AC System
- 22. On-Demand Steering
- 23. Drive Axle Debris Guard

Optional Equipment

- 1. Battery rollers
- Quick Charge 1 or 2 connectors on seat deck
- 3. Freezer and corrosion conditioning
- 4. Sideshifter
- Hydraulic valves for attachments
- Quick disconnect hydraulic connectors
- 7. Steering spinner knob
- 8. Storage tray
- 9. Keyless on/off switch

Technical Information

- 10. Keypad lock
- 11. Foot operated directional control
- 12. Fork lengths
- 13. Polished and tapered forks
- 14. Load backrest heights
- 15. Super elastic tires
- 16. Drive-in rack overhead quard
- 17. 83" overhead guard
- 18. Tilt options
- 19. Working lights
- 20. Flashing lights
- 21. Turn signals
- 22. Brake, tail and back-up light
- 23. Floor spot light
- 24. Audible travel alarms
- 25. Tilt position assist
- 26. Arm rest
- 27. Grabbar
- 28. Work Assist® Accessories
 - Clip pad and hook
 - Clamp
 - Clamp and mounting plate
 - Operator fan
 - Fire extinguisher
 - Mirrors
 - Shrink Wrap Holder
 - Cup Holder
 - Pencil Holder
 - Storage pocket behind seat

^{**} Not available with drive-in rack or double-function hydraulics.

Technical Information

- 29. Suspension Seat fabric or vinyl
- 30. Crown FlexSeat vinyl
- 31. Rear Post Handle with Horn Button
- Hydraulic control options with directional travel and horn integrated into the adjustable armrest
 - Fingertip control levers
 - Dual-axis joystick control levers

Driveability

The SC 5200 Series benefits from Crown's design and engineering excellence. Numerous design features improve operator comfort and productivity.

A low 15" (381 mm) step height first greets the operator. A low battery cover that is streamlined helps the operator glide into the truck's Crown FlexSeat™. The overhead guard is shaped to open up the entry/exit window. The compact tilt steer column and steer wheel further facilitate entry/exit. Floorboards are large, uncluttered and rubber covered to insulate the operator from vibration. Brake and accelerator pedals are rubber covered to provide good grip and comfort.

Several designs contribute to better visibility everywhere you look. A low cowl for fork visibility, a unique waterfall overhead guard for load handling, a high visibility mast and a compact steer column all improve operator visibility around the truck.

Control handles are crafted into the compartment and "fanned" for easy selection. They are nylon covered with tactile feedback for comfort and easy selection. Control actuation forces are minimal and responsive.

Crown Drive System

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. The demand for high efficiency systems that closely match customer torque requirements is met with this generation control system. Crown-manufactured, independently controlled, AC drive motors are specifically designed to optimize system integration between the traction and braking controls.

Crown's Access 1 2 3 technology provides optimum performance and control by offering a communication interface for

operators and technicians, intelligent coordination of lift truck system and simplified service with advanced diagnostics.

The Crown display is used for easy troubleshooting, access service history and set performance features. Three modes of performance can be selected to accommodate operator experience or application requirements.

e-GEN® Braking System

Variable regenerative motor braking is optimized and assisted with electric friction brakes, eliminating maintenance associated with typical wet, disk or drum and shoe style brakes. The appropriate amount of stopping force is applied to match operator brake input and the current operating conditions of the truck.

The closed loop Access 1 2 3 traction control will keep the truck static until a travel input is requested, even when operating on a grade.

Automatic electric parking brakes activate when the operator leaves the seat, a travel input has not been requested or battery power has been disconnected.

Proportional Rack and Pinion Steering System

Hydrostatic power steering uses a large, totally enclosed rack and pinion gear assembly. Load-sense hydrostatic steering is an ondemand system which reduces energy consumption. Smooth, quiet steering control with minimal operator effort required at the steer tiller. Crown's hydrostatic steering system is simplified with significantly fewer parts, thus reducing maintenance requirements.

The steering geometry is matched to the controller to deliver smooth steering at all angles. The advantage is less tire scrubbing which extends tire life.

Both motors receive power, even in the tightest turns. This helps the truck to accelerate, turn and maneuver even from a full turn start position.

Cornering speed control regulates the drive motor's output by the turning degree of the truck. The advantage is smooth, stable steering which may increase operator confidence and productivity. Large, (15" diameter, 381 mm) dual steer wheels provide good traction and stability.

Hydraulics

The hydraulic system provides continuous filtration. A heat stabilized polymer hydraulic tank is free from contamination and retains strength over a wide range of temperatures. Hydraulic attachments can be added easily in the field using modular valve bodies. Hydraulic valve handle actuation is precise and oil is controlled using metered spool valves and motor speeds.

Ram displacement type lift cylinders and two double acting tilt cylinders are Crownmanufactured. All rams and piston rods are hard chrome plated to reduce pitting and extend cylinder packing life. O-ring face seal fittings are used to eliminate leaks.

Mast Assembly

Crown-manufactured mast assembly utilizes a "flush-face" interlocked I-beam design to improve visibility and save truck length. Roller bearing studs are welded on both sides of the rails for maximum strength and roller bearings are canted to run in the thick cross section of the rail. Tie bars wrap around the rails for added strength and to resist off-center load forces.

"In-line" hose routing opens up visibility. Cylinders are placed to the sides to create a high visibility design.

The mast has four points of attachment to the truck for good load force distribution. Two mounting points are at the frame, where tilt cylinders attach. Tilt cylinders use spherical bushings to resist off center load

distortions. Two large diameter studs secure the mast to the drive units.

Drive Units

Two Crown-manufactured independent double reduction planetary gear drives offer 27 to 1 gear reduction. The first and second reduction use helical gears for low noise and efficiency. The drive unit gears are splash lubricated in an oil bath.

Carriage

An ITA Class II carriage is standard. An optional hook type ITA sideshifter or other attachments are easily added. Optional fork lengths are available.

Warning Device Options

- 1. Audible travel alarm
- 2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing 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 your local Crown dealer.

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.



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 Equipment Corporation

New Bremen, Ohio 45869 USA

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