

**Specifications** 

FC 4500 Series

Sit-down Rider Lift Truck

# FC 4500







ç	1	Manufacturer		Crown Equipment Corporation
General Information	2	Model		FC 4510/15-40 FC 4520/25-40
Ĕ	3	Load Capacity*	dl	4000
ğ	4	Load Center	Fork Face to Load CG in	24
	5	Power	Electric	36-Volt / 48-Volt
g	6	Operator Type		Sit-down Rider Counterbalanced
2	7	Tire Type		Cushion
5	8	Wheels (x = driven)	Number Front/Rear	2x / 2
	9	Mast (See Mast Chart)	Lifting Height (MFH) in	188
			Free Lift Height in	32.2
	12	Fork Carriage		ITA Class II
	13	Forks	Standard L x W x T in	36 x 4 x 1.8
			Optional Lengths in	42, 48, 54, 60
_	14	Tilt	F° / B° degree	5/5
UIMENSIONS			Interlocked Fork Height** in	66
2		Battery Compartment	in	27 33
þ	15	Headlength	Length to Fork Face in	77.8 84
Į	16	Width Overall	Standard Tread in	43.4
1			Wide Tread in	47.5
	17	Height with Load Backrest	Mast Collapsed in	83
	18		Mast Extended in	236
	21	Turning Radius	in	69.1 75.3
	22	Load Distance	Center of Wheel to Fork Face in	15.8
	23	Aisle Width (Add Load + Clear)	Right Angle Stack in	84.9 91.1
	24	Speed Travel	Empty / Loaded 48V mph	11 / 10.2
Ś			Empty / Loaded 36V mph	9 / 8.3
	25	Speed Lift <sup>++</sup> DC	Empty / Loaded 48V fpm	110 / 76
			Empty / Loaded 36V fpm	104 / 58
2		AC	Empty / Loaded 48V fpm	110 / 92
			Empty / Loaded 36V fpm	104 / 71
	26	Speed Lower	Empty / Loaded fpm	84
	32	Weight, Less Battery	lb	7,243 7,195
	33	Axle Load with Max Battery,	Front Ib	11,987 11,752
2		Loaded	Rear Ib	1,886 2,242
	34	Axle Load with Max Battery,	Front Ib	4,787 4,851
		Unloaded	Rear Ib	5,086 5,144
	36	Tires	Size Front in	21 x 7 x 15
	37		Size Rear in	16 x 6 x 10.5
	38	Wheelbase	in	49.7 54.7
2	39	Tread/Track Width	Front Standard / Rear in	36.4 / 36
			Front Optional / Rear in	40.5 / 36
	40	Ground Clearance, Loaded	Lowest Point in	3
	41		Center of Wheelbase in	4.8
	42	Grade Clearance, Loaded	%	38 35
	43	Brakes	Service	Foot Hydraulic
	44		Parking	Hand Electro-hydraulic
	45	Battery	Туре	Lead Acid
	46		Capacity - 36V AH	1210 1430
			kWh	42.5 50.2
			Capacity - 48V AH	880 1100
•			kWh	41.2 51.5
	47		Weight - Min Ib	2630 2800
			Weight - Max Ib	3200 4000
-			Size - Max Length	27.25 32.94
			Width	38.69
		1	Height	22.25
	48	Battery Floor Height	With Rollers / w/o Rollers in	17.4 / 17.1
	49	Battery Floor Height Motors	Tractor Motor, dia in	11.4

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.
 \*\* Forward tilt restricted to 2° above this height.
 † With maintenance-free batteries or batteries with a lid (flat top), consult factory.
 † Based on TT mast.

_	1	Manufacturer			Crown	Equipment Corne	ration			
General Information	2	Manufacturer			FC 4510/15-50	Equipment Corpo FC 4520/25-50	FC 4540/45-50			
na	3	Load Capacity*		lb	104010/10-00	5000	10404040-00			
or	4	Load Center	Fork Face to Load CG	in		24				
Ţ	5	Power	Electric			36-Volt / 48-Volt				
a	6	Operator Type	Lieotho		Sit-dov	vn Rider Counterbal	anced			
Jer	7	Tire Type			011-001	Cushion	anceu			
<u>G</u> el	8	Wheels (x = driven)	Number Front/Rear			2x / 2				
<u> </u>	9	Mast (See Mast Chart)	Lifting Height (MFH)	in		188				
	3	Mast (See Mast Onart)	Free Lift Height	in		32.2				
	12	Fork Carriage				ITA Class II				
	13	Forks	Standard L x W x T	in		36 x 4 x 1.8				
	10	TORS	Optional Lengths	in		42, 48, 54, 60				
	14	Tilt	F° / B°	degree		5 / 5				
ns	17		Interlocked Fork Height**	in		66				
<u>.</u>		Battery Compartment	Interioence Fork height	in	27	33	36			
6Ü	15	Headlength	Length to Fork Face	in	81.2	84	87.1			
Dimensions	16	Width Overall	Standard Tread	in	01.2	43.4	07.1			
Δ	10		Wide Tread	in		47.5				
	17	Height with Load Backrest	Mast Collapsed	in		83				
	18		Mast Extended	in		236				
	21	Turning Radius		in	71.9	75.4	78.0			
	22	Load Distance	Center of Wheel to Fork Fa		. 1.0	15.8	10.0			
	23	Aisle Width (Add Load + Clear)	Right Angle Stack	in	87.7	91.2	93.8			
	24	Speed Travel	Empty / Loaded 48V	mph	0.11	10.9 / 9.9	0010			
ø			Empty / Loaded 36V	mph		8.8 / 8.0				
Performance	25	Speed Lift++ DC	Empty / Loaded 48V	fpm	110 / 70					
Ĕ			Empty / Loaded 36V							
Ę		AC	Empty / Loaded 48V							
Ре			Empty / Loaded 36V	fpm		104 / 66				
	26	Speed Lower	Empty / Loaded	fpm	84					
	32	Weight, Less Battery		lb	8,090	7,736	7,454			
ıts	33	Axle Load with Max Battery,	Front	lb	13,616	13,641	13,456			
Weights		Loaded	Rear	lb	2,103	1,895	2,097			
Š	34	Axle Load with Max Battery,	Front	lb	4,616	5,014	4,829			
		Unloaded	Rear	lb	6,104	5,522	5,724			
	36	Tires	Size Front	in		21 x 8 x 15				
	37		Size Rear	in		16 x 6 x 10.5				
	38	Wheelbase		in	49.7	54.7	54.7			
<u>.</u>	39	Tread/Track Width	Front Standard / Rear	in	35.4 / 36					
ISS			Front Optional / Rear	in	39.5 / 36					
Chassis	40	Ground Clearance, Loaded	Lowest Point	in		3				
5	41	· · · · · · · · · · · · · · · · · · ·	Center of Wheelbase	in		4.8				
	42	Grade Clearance, Loaded		%	38	35	35			
	43	Brakes	Service		Foot Hydraulic					
	44	Dellara	Parking		H	and Electro-hydrauli	С			
	45	Battery			1010	Lead Acid	1050			
	46		Capacity - 36V	AH	1210	1430	1650			
				kWh	42.5	50.2	57.9			
>			Capacity - 48V	AH	880	1100	1210			
Battery	47		VA/sight NAis	kWh	41.2	51.5	56.6			
att	47		Weight - Min Weight - Max	lb Ib	2630	2800	3100			
ш				lb Longth	3200	4000	4250			
			Size - Max	Length	27.25	32.94	36.38			
				Width		38.69				
	40	Dettern Flage Haintt		Height		22.25				
<i>(</i> <b>^</b>	48	Battery Floor Height	With Rollers / w/o Rollers Tractor Motor, dia	in		17.4 / 17.1				
u U	49	Motors								
Motors	50	Operating Pressure	Lift Motor, dia	in		7.2				
<	51	Operating Pressure	For Attachments psi Up to 3000							

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.
 \*\* Forward tilt restricted to 2° above this height.
 † With maintenance-free batteries or batteries with a lid (flat top), consult factory.
 † Based on TT mast.

c	1	Manufacturer		Crown Equipment Corporation				
General Information	2	Manufacturer		FC 4520/25-55 FC 4540/45-55				
ma	3	Load Capacity*	dl	5500				
	4	Load Center	Fork Face to Load CG in	24				
	5	Power	Electric	36-Volt / 48-Volt				
a	6	Operator Type	Liectric	Sit-down Rider Counterbalanced				
ē		Tire Type		Cushion				
Per la	7	Wheels (x = driven)	Number Front/Rear					
, _	9			<u>2x / 2</u> 188				
	9	Mast (See Mast Chart)		32.2				
	10	Fault Ocuriana	Free Lift Height in					
	12	Fork Carriage		ITA Class II				
	13	Forks	Standard L x W x T in	36 x 5 x 1.8				
	4.4		Optional Lengths in	42, 48, 54, 60				
n	14	Tilt	F° / B° degree	5/5				
nimensions			Interlocked Fork Height** in	66				
2		Battery Compartment	in	33 36				
	15	Headlength	Length to Fork Face in	87.4 90.5				
č	16	Width Overall	Standard Tread in	45.2				
			Wide Tread in	48				
	17	Height with Load Backrest	Mast Collapsed in	83				
	18		Mast Extended in	236				
	21	Turning Radius	in	78.2 80.9				
	22	Load Distance	Center of Wheel to Fork Face in	15.8				
	23	Aisle Width (Add Load + Clear)	Right Angle Stack in	94.0 96.7				
	24	Speed Travel	Empty / Loaded 48V mph	10.8 / 9.7				
			Empty / Loaded 36V mph	8.8 / 7.8				
	25	Speed Lift <sup>††</sup> DC	Empty / Loaded 48V fpm	110 / 68				
			Empty / Loaded 36V fpm	104 / 47				
		AC	Empty / Loaded 48V fpm 110 / 81					
			Empty / Loaded 36V fpm	104 / 62				
	26	Speed Lower	Empty / Loaded fpm	84				
	32	Weight, Less Battery	lb	8,285 8,166				
	33	Axle Load with Max Battery,	Front Ib	14,308 14,111				
0		Loaded	Rear Ib	2,277 2,655				
	34	Axle Load with Max Battery,	Front Ib	4,818 4,622				
		Unloaded	Rear Ib	6,267 6,644				
	36	Tires	Size Front in	21 x 9 x 15				
	37		Size Rear in	16 x 7 x 10.5				
	38	Wheelbase	in	54.7 54.7				
	39	Tread/Track Width	Front Standard / Rear in	36.2 / 36				
			Front Optional / Rear in	39 / 36				
	40	Ground Clearance, Loaded	Lowest Point in	3				
	41	,	Center of Wheelbase in	4.8				
	42	Grade Clearance, Loaded	%	35 35				
	43	Brakes	Service	Foot Hydraulic				
	44		Parking	Hand Electro-hydraulic				
	45	Battery	Type	Lead Acid				
	46		Capacity - 36VAH	1430 1650				
			kWh	50.2 57.9				
			Capacity - 48V AH	1100 1210				
			kWh	51.5 56.6				
	47	1	Weight - Min Ib	2800 3100				
	-11		Weight - Max Ib	4000 4250				
			Size - Max Length	32.94 36.38				
			Width	38.69				
			Height	22.25				
	10	Battony Elear Haight						
	48	Battery Floor Height	With Rollers / w/o Rollers in	17.4 / 17.1				
	49	Motors	Tractor Motor, dia in	11.4				
ز	50 51	Operating Pressure	Lift Motor, dia in For Attachments psi	7.2 Up to 3000				

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.
\*\* Forward tilt restricted to 2° above this height.
† With maintenance-free batteries or batteries with a lid (flat top), consult factory.
† Based on TT mast.

Ξ	1	Manufacturer		Crown Equipment Corporation				
General Information	2	Model		FC 4520/25-60 FC 4540/45-60				
шa	3	Load Capacity*	lb	6000				
ē	4	Load Center	Fork Face to Load CG in	24				
Ξ	5	Power	Electric	36-Volt / 48-Volt				
ā	6	Operator Type		Sit-down Rider Counterbalanced				
lei	7	Tire Type		Cushion				
95 19	8	Wheels (x = driven)	Number Front/Rear	2x / 2				
<u> </u>	9	Mast (See Mast Chart)	Lifting Height (MFH) in	180				
	3	Mast (See Mast Onall)	Free Lift Height in	32.2				
	12	Fork Carriage		ITA Class III				
	13	Forks	Standard L x W x T in	36 x 5 x 1.8				
	10	FUIKS	Optional Lengths in	42, 48, 54, 60				
	14	Tilt	· · · · · · · · · · · · · · · · · · ·	42, 48, 54, 60 5 / 5				
S	14	1111		66				
Dimensions		Battery Composition ant		33 36				
Su	15	Battery Compartment	in in					
Ĕ	15	Headlength	Length to Fork Face in	87.7 90.8				
2	16	Width Overall	Standard Tread in	45				
	47	Halaha with Land Darkers I	Wide Tread in	48				
	17	Height with Load Backrest	Mast Collapsed in	83				
	18	Tauta Dalla	Mast Extended in	228				
	21	Turning Radius	in	78.2 80.9				
	22	Load Distance	Center of Wheel to Fork Face in	16.1				
	23	Aisle Width (Add Load + Clear)	Right Angle Stack in	94.3 97.0				
	24	Speed Travel	Empty / Loaded 48V mph	10.8 / 9.5				
S			Empty / Loaded 36V mph	8.8 / 7.6				
a	25	Speed Lift <sup>++</sup> DC	Empty / Loaded 48V fpm	110 / 66				
E			Empty / Loaded 36V fpm 104 / 43					
Perrormance		AC	Empty / Loaded 48V fpm	110 / 76				
ĭ			Empty / Loaded 36V fpm	104 / 57				
	26	Speed Lower	Empty / Loaded fpm	84				
	32	Weight, Less Battery	lb	8,687 8,226				
weights	33	Axle Load with Max Battery,	Front Ib	15,364 15,078				
<u>B</u>		Loaded	Rear Ib	2,124 2,248				
š	34	Axle Load with Max Battery,	Front Ib	4,984 4,699				
		Unloaded	Rear Ib	6,503 6,627				
	36	Tires	Size Front in	21 x 9 x 15				
	37		Size Rear in	16 x 7 x 10.5				
	38	Wheelbase	in	54.7 54.7				
ŝ	39	Tread/Track Width	Front Standard / Rear in	36.2 / 36				
Unassis			Front Optional / Rear in	39 / 36				
, Da	40	Creved Clearance Leaded	Lowest Point in	3				
ō		Ground Clearance, Loaded						
	41		Center of Wheelbase in	4.8				
	42	Grade Clearance, Loaded	%	4.8 35 35				
	42 43		% Service	4.8 35 35 Foot Hydraulic				
	42	Grade Clearance, Loaded Brakes	%	4.8 35 35				
	42 43	Grade Clearance, Loaded	% Service Parking Type	4.8 35 35 Foot Hydraulic Hand Electro-hydraulic Lead Acid				
	42 43 44	Grade Clearance, Loaded Brakes	% Service Parking Type Capacity - 36V AH	4.83535Foot HydraulicHand Electro-hydraulicLead Acid14301650				
	42 43 44 45	Grade Clearance, Loaded Brakes	% Service Parking Type	4.8       35     35       Foot Hydraulic       Hand Electro-hydraulic       Lead Acid       1430     1650       50.2     57.9				
	42 43 44 45	Grade Clearance, Loaded Brakes	% Service Parking Type Capacity - 36V AH	4.8       35     35       Foot Hydraulic       Hand Electro-hydraulic       Lead Acid       1430     1650				
	42 43 44 45	Grade Clearance, Loaded Brakes	% Service Parking Type Capacity - 36V AH kWh	4.8       35     35       Foot Hydraulic       Hand Electro-hydraulic       Lead Acid       1430     1650       50.2     57.9				
	42 43 44 45	Grade Clearance, Loaded Brakes	%       Service       Parking       Type       Capacity - 36V       AH       kWh       Capacity - 48V	4.8       35     35       Foot Hydraulic       Hand Electro-hydraulic       Lead Acid       1430     1650       50.2     57.9       1100     1210				
	42 43 44 45 46	Grade Clearance, Loaded Brakes	%       Service       Parking       Type       Capacity - 36V       AH       kWh       Capacity - 48V       AH       kWh	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid       1430         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100				
	42 43 44 45 46	Grade Clearance, Loaded Brakes	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         kWh         Weight - Min         Weight - Max	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid       1430         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250				
	42 43 44 45 46	Grade Clearance, Loaded Brakes	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         kWh         Weight - Min         Weight - Max         Ib         Size - Max	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid       1430         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250         32.94       36.38				
	42 43 44 45 46	Grade Clearance, Loaded Brakes	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         weight - Min         Ib         Weight - Max         Size - Max         Width	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250         32.94       36.38         38.69       35				
	42 43 44 45 46 47	Grade Clearance, Loaded Brakes Battery	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         weight - Min         Ib         Weight - Max         Size - Max         Length         Width	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid       1430         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250         32.94       36.38         38.69       22.25				
battery	42 43 44 45 46 47 47	Grade Clearance, Loaded Brakes Battery Battery Floor Height	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         weight - Min         Ib         Weight - Max         Size - Max         Length         Width         Height         With Rollers / w/o Rollers	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250         32.94       36.38         38.69       22.25         17.4 / 17.1				
Motors Battery	42 43 44 45 46 47	Grade Clearance, Loaded Brakes Battery	%         Service         Parking         Type         Capacity - 36V         AH         kWh         Capacity - 48V         AH         weight - Min         Ib         Weight - Max         Size - Max         Length         Width	4.8         35       35         Foot Hydraulic         Hand Electro-hydraulic         Lead Acid         1430       1650         50.2       57.9         1100       1210         51.5       56.6         2800       3100         4000       4250         32.94       36.38         38.69       22.25				

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.
\*\* Forward tilt restricted to 2° above this height.
† With maintenance-free batteries or batteries with a lid (flat top), consult factory.
† Based on TT mast.

Specifications

Mast Chart FC 4500-40/50/55 TL							Π								QUAD				
9	Lifting Height in	12	26	138	150	188	206	216*	231*	246*	258*	276*	291*	240*	258*	276*	294*	312*	
11	Free Lift Height† in	5	i.6	5.6	5.6	32.2	38.2	44.2	50.2	56.2	62.2	68.2	74.2	31.8	39.8	43.8	49.8	55.8	
14	Interlocked Fork Ht in		78	78	78	66	72	78	84	90	96	102	108	76	82	88	94	100	
17	Mast Collapsed Ht in	8	33	89	95	83	89	95	101	107	113	119	125	83	89	95	101	107	
18	Mast Extended Ht† in	17	74	186	198	236	254	264	279	294	306	324	339	288	306	324	342	360	
Mas	at Chart FC 4500-60			TL								тт							
9	Lifting Height in		118	5	130		142	1	80	19	98	208	3*	223	*	238*		250*	
11	Free Lift Height† in		5.9		5.9	5.9		32.2		38	38.2 44		2	50.2		56.2		62.2	
14	Interlocked Fork Ht in		78		78		78	6	66		72		78		84			96	
17	Mast Collapsed Ht in		83		89		95	8	33	8	9	95	5	101		107		113	
18	Mast Extended Ht† in		166	;	178		190	2	28	24	46	25	6	271		286		298	

\* Wide tread drive tires recommended. Refer to capacity charts.

+Includes load backrest.

## Standard Features

- Crown's Access 1 2 3® 1 Comprehensive System Control
- 2. Intrinsic stability system
  - Travel speed reduction when above mast staging
  - Forward tilt interlock above staging
  - Counterweight exceeds required standards
  - Ramp speed control
- 3. Operator entry/exit
  - 18" step height
  - · Large entry/exit "window" • Tubular overhead guard upright for easy hand hold
  - Contoured battery seat deck
  - Rounded floorboard edges
  - Tilt steering wheel and sculpted column
  - Large, uncluttered floorboard
- 4. Operator compartment design features
  - Low cowl for fork and floor visibility
  - Wide visibility window between overhead guard and front pillars
  - · Suspension seat with hip restraint and anti-cinch seat belt
  - Infinite adjustment steering wheel column
  - Fingertip applied/released parking brake with tone alert

- Urethane covered control handles with tactile feedback
- Natural position for forward/reverse selector
- Rubber floor mat/rubber covered pedals
- 5. AC traction system
- Exclusive Crown power disc 6. brake with regenerative motor plugging
- Crown-manufactured 7. lift motor
- 8. 36/48-volt system
- Crown display 9.
  - 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
- 10. High visibility mast with in-line hose routing
- Waterfall design 11. overhead guard
- 12. Lift out or side removal battery access
- 13. Battery side retainer with interlock and fault identification
- 14. No tool lift out floorboards
- 15. 48" high load backrest
- 16. 350 amp battery connector

# FC 4500 Series

- 17. Color-coded wiring
- 18. InfoPoint® System with Quick Reference Guide
- 19. Three-spool valve
- 20. O-ring face seal
- hydraulic fittings
- 21. Battery disconnect handle Lift interrupt

# **Optional Equipment**

- AC Hydraulics 1.
- 2. Sideshifter
- 3. Freezer and corrosion conditioning
- 4. UL "EE" rating
- InfoLink™ Ready System 5.
- 6. TL and quad mast styles
- 7. Polished and tapered forks
- 8. Fork lengths
- 9 Hydraulic valves for attachments 10. Quick disconnect
- hydraulic connectors
- 11. Attachment pressure regulator and gauge 12. Special forward tilt
- 13. Brush wear and motor overtemperature indicators for DC motors
- 14. Seat armrest
- 15. Steering spinner knob
- 16. Keyless on/off switch
- 17. Work lights
- 18. Storage tray with clipboard support
- 19. Static seat
- 20. Tilt Position Assist

# **Technical Information**

- 21. Shoulder restraint
- 22. Back-up, brake and tail light
- 23. Strobe lights
- 24. Audible travel alarm
- 25. Tow pin
  - 26. Automatic parking brake, (seat activated)
  - 27. Brake activated traction cutout
  - 28. Foot operated directional control
  - 29. Full battery side doors
  - 30. Battery compartment rollers
  - 31. Dock Performance Package
  - 32. Pos/Neg accessory cable
  - 33. Wide tread widths
  - 34. Load backrest heights
  - 35. Drive-in rack overhead guard
  - Non-marking smooth or 36. lug rubber tires
  - 37. Work Assist<sup>™</sup> Accessories
    - Clip pad and hook
    - Accessory clamp
    - Terminal mounting ٠
    - Fire extinguisher Operator fan
    - ٠ Work lights
    - Mirrors
  - 38. Battery spacer

#### Driveability

The FC 4500 benefits from Crown's design and engineering excellence. Numerous features improve operator comfort and productivity.

A low 18" step height first greets the operator. A low, streamlined battery cover helps the operator glide into the truck's seat. The overhead guard is shaped to open up the entry/exit window and its tubular design provides a comfortable hand grip location for a variety of operator heights. The compact tilt steer column and steer wheel further facilitate entry/exit. Tilt column is spring loaded to easily move up and away. Floorboard (625-sq in) is uncluttered and rubber covered to insulate the operator from vibration. Sculpted floorboard design promotes visibility to the drive tires, which can reduce product and pallet damage. Brake pedal effort is reduced. Pedal to pedal and floor to pedal relationships are refined for comfort.

Better visibility can be seen everywhere you look. A low cowl for fork and carriage visibility, a high visibility mast, a compact steer column, a sculpted floorboard and a "waterfall" overhead guard all contribute to superior visibility.

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

Finger applied/released parking brake with tone alert enhances operator entry/exit and naturally encourages its use. Battery disconnect is easy to reach and operate. Easy to actuate rockertype switches are conveniently located to select optional work lights or fan. A large convex horn button is housed in the center of the wheel.

#### **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.

Drive motor is transversemounted high above the floor away from dirt and moisture. Heavy-duty triple reduction, all gear design operates in oil bath. Engineered for durability with reduced vibration and noise.

Crown's Access 1 2 3 technology provides optimum performance and control by offering a communication interface for both operators and technicians, intelligent coordination of lift truck systems and simplified service with advanced diagnostics.

The Crown display is used for easy troubleshooting, access event history and set performance features. A distribution panel is conveniently located with all test points, control fuses and central wiring for easy troubleshooting.

Three modes of performance can be selected to accommodate operator experience or application requirements.

#### **Crown Power Brake System**

Service brakes are located in the wheel ends with a unique full circle power disc design. Hydraulic power is utilized to actuate a full circle rotor. This design reduces operator pedal effort and improves brake response. Brake service life is increased due to a large full circle friction pad. Access to the friction pads for inspection or replacement is direct and easy. reducing downtime for brake maintenance. Parking brake is activated by a push button located on the cowl to the right of the steer wheel column. Tone alert reminder is standard. Parking brake is located on the end of the motor shaft to take advantage of gear reduction. Optional seat activated automatic parking brake is available.

#### Steering

Fully hydrostatic system with equal area, double-acting cylinder provides equally responsive steering rate both ways (4.8 turns lock to lock). Rugged axle frame; forged spindle and connecting links eliminate the need for adjustment. One-piece forged spindle and kingpin in tapered roller bearings for improved life and serviceability. Spherical bearings with tapered pins in connecting links eliminate any play in linkage. All bearing locations are sealed to exclude contaminants and are equipped with lubrication fittings for ease of service. Axle articulates in rubber isolation bushing to improve truck handling and ride.

#### Crown Manufactured Mast Assembly

Large, rugged mast trunnion mount on drive axle and extra heavy tilt cylinders with self-aligning bushings secure mast.

High visibility mast features nested-rail design with lift cylinders positioned behind the rails. Heavy-duty mast is engineered to provide smooth reliable operation. Large hydraulic hose reeves and hose placement are engineered to reduce hose wear and increase hose life. Hose routing places hose sin-line versus side-by-side to reduce visual interference. Large lift chains are used for long reliable service life. Large diameter lift cylinders provide smooth operation.

Class II and III fork carriages are available. Optional TL and quad mast is available.

#### **Hydraulics**

Premium hydraulic function control valve provides precise metering of lift, tilt and accessory functions. Compensating section in the valve provides repeatable function speed regardless of load condition. Hydraulic lever actuation is minimal, reducing stress. Compensating section also improves overall system efficiency.

Tilt compensator prevents tilt from lunging or speeding up when doing simultaneous functions.

Crown lift/tilt interlock system provides extended forward tilt at low fork heights, reduced forward tilt at elevated heights to improve truck stability when forks are elevated.

The control valves' modular design allows easy addition of accessory functions. Maximum lowering speed is limited by pressure compensating flow control valve and velocity fuses.



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. Integrated hydraulic cylinder cushions soften mast staging. All lift cylinder rams are plated and retract into the hydraulic oil for additional corrosion protection when forks are lowered.

The steel oil reservoir is integral to the frame which helps to dissipate hydraulic oil heat. This clean, leak-free design includes suction strainer with separate, easily accessible fill port and dipstick with filtered breathers. Oil is returned through a replaceable spin-on type oil filter.

#### **Batteries**

Battery deck lid releases easily to expose battery for lift out or side battery removal. Optional battery rollers for use with mechanized extraction equipment. A low battery side retainer is standard. Full battery side doors are optional.

#### Other 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.

#### **Crown Equipment Corporation**

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

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