

Specifications

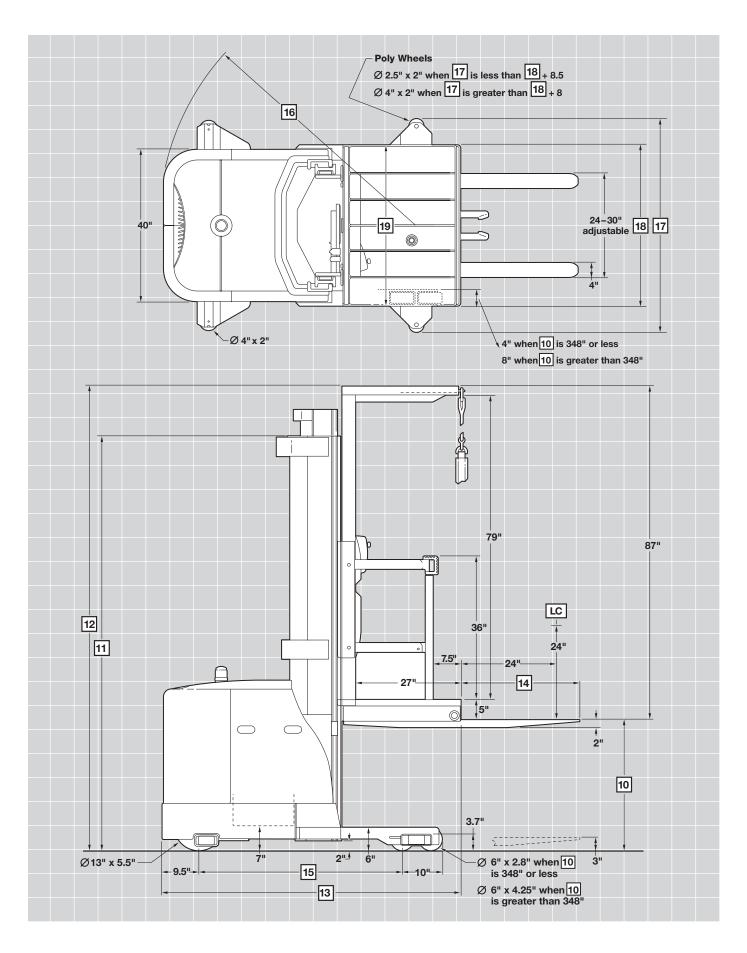
SP 3500 Series

Stockpicker

SP 3500

Series





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	1	Manufacturer		Crown Equipment Corporation	Crown Equipment Corporation	
General Information	2	Model		SP 3505-30	SP 3510-30	
	3	Load Capacity*	d	See Chart	See Chart	
		Load Center	Platform face to load CG in	24	24	
	4					
eral	5	Power	Electric Volts	24	24	
Gene	6	Operator Type	Stand-up Rider	Stockpicker	Stockpicker	
	7	Tire Type	Load/Drive	Poly/Poly	Poly/Poly	
	8	Wheels (x = driven)	Load/Drive	4/1x	4/1x	
	10	Lifting Height	in	See Chart	See Chart	
s	13	Head Length	TL/TT in	74.6/75.6	74.6/75.6	
sion	14	Forks	Standard L x W x T in	36 x 4 x 2	36 x 4 x 2	
Dimensions			Optional Lengths in	30, 39, 42, 45, 48, 54, 60, 72, 84	30, 39, 42, 45, 48, 54, 60, 72, 84	
	15	Wheelbase	TL/TT in	52/51	52/51	
	16	Turning Radius	TL/TT in	69/68	69/68	
	20	Speed Travel	Empty/Loaded mph	See Chart	See Chart	
nce	21	Speed Lift	TL Empty/Loaded fpm	45/28	45/28	
Performance			TT Empty/Loaded fpm	40/26	40/26	
Perf	22	Speed Lower	TL Empty/Loaded fpm	40/38 Low, 80/75 High	40/38 Low, 80/75 High	
			TT Empty/Loaded fpm	40/38 Low, 80/75 High	40/38 Low, 80/75 High	
>	23	Battery	Туре	Lead Acid	Lead Acid	
Battery			Min Weight/Max Amp	975/660	1520/1085	
8			Max Battery Size	13.12 x 31.75 x 23.25 High	14.25 x 36.25 x 31 High	

* Contact factory. Capacity may be subject to derating, depending upon lifting height, load center and fork length.

				Γ			TL		
	10	Lifting Height		in	136	148	172	194	214
	3	Load Capacity	SP 3505	lb	3000	3000	3000	3000	3000
Capacity			SP 3510	lb	3000	3000	3000	3000	3000
Cap			SP 3520	lb	3000	3000	3000	3000	3000
			SP 3550H	lb	na	na	na	na	na
		Free Lift		in	3	6	6	6	6
	11	Collapsed Height in		in	89.5	95	107	119	131
Mast	12	Extended Height in		in	223	235	259	281	301
Ř	18	Straddle Width ir		in	42	42	42	42	42
	19	Operator Compartment Width in		in	42	42	42	42	42
	17	Aisle Guide Whe	el Range+	in	45.50 to 65.25				
Ţ		Truck Weight	SP 3505	lb	5027	5086	5216	5504	5634
Truck Weight		Without Battery	SP 3510	lb	5027	5086	5216	5504	5634
ruck			SP 3520	lb	5088	5147	5277	5565	5695
F			SP 3550H	lb	na	na	na	na	na

† In .25" increments.†† 48" straddle width on SP 3405 only.

SP 3500 Series

Crown Equipment Corporation	Crown Equipment Corporation			
SP 3520-30	SP 3550H-30			
See Chart	See Chart			
24	24			
24	24			
Stockpicker	Stockpicker			
Poly/Poly	Poly/Poly			
4/1x	4/1x			
See Chart	See Chart			
74.6/75.6	na/75.6			
36 x 4 x 2	36 x 4 x 2			
30, 39, 42, 45, 48, 54, 60, 72, 84	30, 39, 42, 45, 48, 54, 60, 72, 84			
52/51	na/51			
69/68	na/68			
See Chart	See Chart			
45/28 Low, 80/46 High	na			
40/26 Low, 71/43 High	40/26 Low, 71/43 High			
40/38 Low, 80/75 High	na			
40/38 Low, 80/75 High	40/38 Low, 80/75 High			
Lead Acid	Lead Acid			
1520/1085	1520/1085			
14.25 x 36.25 x 31 High	14.25 x 36.25 x 31 High			

	Steered Wheel < 10° (1)					
Lift Height (inches)						
	SP 3505	SP 3510 SP 3520	SP 3550H			
0-24	6.5	7.5	7.5			
24-64	6.5-5.5	7.5-6.0	7.5-6.5			
64-120	5.5-3.3	6.0-3.8	6.5-4.5			
120-152	3.3-2.1	3.8-2.7	4.5-3.4			
152-176	2.1-1.2	2.7-2.0	3.4-2.6			
176-192	1.2	2.0-1.5	2.6-2.2			
192-216	1.2	1.5	2.2-1.5			
216-max	1.2	1.5	1.5			

⁽¹⁾ Top travel speed is reduced to 80% at a 10° steering angle, beyond 10° travel speeds gradually reduce down to 50% of top travel speed. Steering angle is automatically limited to within 10° straight travel as indicated below:

• SP 3505 above 176"

• SP 3510 and SP 3520 above 192"

• SP 3550H above 216"

⁽²⁾ From 0-60 inches, travel speeds in the Forks First (FF) direction of travel are approximately .5 mph less than travel speeds in the Power Unit First (PUF) direction.

				TT				
195	210	240	276	294	312	330	348	366
3000	3000	3000	na	na	na	na	na	na
3000	3000	3000	na	na	na	na	na	na
3000	3000	3000	2000	1750	1500	na	na	na
na	na	na	2500	2350	2200	2050	1900	1750
3	8	20	32	38	44	56	62	68
89.5	95	107	119	125	131	143	149	155
283	298	328	364	382	400	418	436	454
42	42	42††	48	54	54	56	60	60
42	42	42	48	54	54	54	60	60
45.50 to 65.25	45.50 to 65.25	45.50 to 65.25	48.75 to 71.25	54.75 to 77.25	54.75 to 77.25	56.75 to 79.25	60.75 to 83.25	60.75 to 83.25
5601	5686	6200	na	na	na	na	na	na
5601	5686	5872	na	na	na	na	na	na
5662	5747	5933	6354	6536	6629	na	na	na
na	na	na	6444	6626	6718	6914	7060	7490

SP 3500 Series

Standard Equipment

- 1. Crown's Access 1 2 3[®] Comprehensive System Control
- 2. Crown's AC traction control system
- 3. 24-volt electrical system
- 4. Electronic steering
- 5. Linear Height Speed Contol
- 6. High-speed lift (SP 3520 and SP 3550H)
- 7. Two-speed lower with soft start and stop
- 8. Programmable lift/lower cut outs
- 9. Intelligent Braking System (IBS) with low-profile brake pedal
- 10. Crown Display
 - Battery discharge indicator with lift interrupt
 - Hour meters/travel distance/stop watch
 - PIN code access capable
 - Access 1 2 3 diagnostics
 - P1, P2, P3 Performance
 Standard steer tire direction indicator (non wire-guided trucks)
 Enhanced steer tire
 - Enhanced steer tire direction indicator (wire-guided trucks)
- 11. Lift motor brush wear and overtemp indicator (SP 3550H).
- 12. Soft urethane twist grip with "cam grip"
- 13. 10° angled steer wheel with soft feel spinner
- 14. Storage compartment
- 15. Premium platform cushion
- 16. Clear visibility platform window
- 17. Clear visibility mast design
- 18. Key switch
- 19. Horn
- 20. Strobe light, amber
- 21. Hinged side gates with power disconnect
- 22. 14.25" battery compartment (13.12" on SP 3505)
- 23. 350 amp battery connector (175 amp on SP 3505)
- 24. 2" diameter battery compartment rollers
- 25. Top battery access for service
- 26. Removable steel battery side covers
- 27. Adjustable battery retainer
- 28. Hinged, lift off steel power unit doors
- 29. Emergency power cut-out
- 30. Operator belt and lanyard

- 31. Pallet clamp
- 32. InfoPoint[®] Quick Reference Guide and Maps
- 33. Color-coded wiring
- 34. 6" diameter tandem load wheels

Optional Equipment

- Crown wire guidance (broadband technology) operates on all frequencies ranging from 5.2 through 10 Khz without changing components.
- 2. End of Aisle Control System (wire or rail guidance required)
- 3. Aisle guide wheels for rail guidance
- 4. Lift motor brush wear and overtemp indicator (SP 3520).
- 5. Enhanced steer tire direction indicator (non-wire guided trucks)
- 6. Battery retainer interlock switch
- 7. Work lights, dome light and two-speed fan
- 8. Spotlights
- 9. Flashing light, amber
- 10. Programmable lift/lower cutouts with over-rides.
- 11. Zone select key switch
- 12. 48", 54", and 60" wide operator platforms
- 13. Corrosion conditioning
- 14. Freezer conditioning (Includes corrosion conditioning, ribbed floor mat, and wire mesh windshield)
- 15. EE Rating available on SP 3520 and SP 3550H
- 16. Wire mesh screen (Standard with freezer conditioning)
- 17. Retractable tether
- 18. Load wheel and drive tire compounds
- 19. 30" lanyard boom
- 20. InfoLink™ Ready
- 21. Positive / negative accessory cable
- 22. Special paint
- 23. Work Assist[™] Accessories
 - Clip pad and hook
 - Plate
 - Pocket
- 24. Fire extinguisher

Operator Platform

The operator area is designed for maximum visibility and stability for increased operator confidence and comfort.

The operator platform features a large window (1088 sq in) for excellent visibility. A Crowndesigned clear-visibility mast affords the platform window one forward and two peripheral windows for maximum visibility, even when the platform is lowered.

The clear-visibility mast, with full free lift, extends the platform window above the mast channels for unobstructed visibility when raised.

A low-profile power unit, low placement of the lower cross brace and an outer C-channel rail assembly also contribute to excellent visibility.

A soft urethane twist grip is solidly mounted to the truck console to provide excellent stability for the operator during travel, plugging and braking. Controls for lift/lower, horn and emergency disconnect are conveniently located for efficient operation and minimal operator fatigue. The steering wheel is angled at 10° and recessed to maximize the work area and reduce steer effort. The steering wheel and spinner knob are covered with soft urethane to reduce grip force and insulate against vibration. Control location keeps the operator's posture neutral at all times.

The platform cushion, made of a microcellular composition, absorbs shock and vibration. The brake pedal has a low-profile design and when engaged is flush with the platform cushion for maximum comfort. Heavy-duty side gates, with two horizontal and one vertical support rails, communicate security to the operator. For additional safety, cut-out switches disengage truck operation when side gates are raised.

Two work lights, two dome lights and a two-speed fan are optional. "Power-on" key prevents unauthorized operation of the truck. The Access 1 2 3 Display Panel provides concise, clear feedback for the operator during truck operation.

Crown's Access 1 2 3...

The Comprehensive Access 1 2 3 System Control is a modular based communications and control system. It monitors all on-board sensors, makes decisions based on the sensor readings, and subsequently, controls all system movements safely and smoothly. All five modules are in constant communications with each other via a CAN (Control Area Network) bus so that real information is accessible to the system at all times.

- Interactive Display Module
- Traction Control Module
- Vehicle Control Module
- Steering Control Module
- Guidance Control Module

Crown Drive System

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. A Crown-manufactured drive unit uses spiral bevel and helical gears from motor to drive wheel axle.

Fixed, mounted drive motor does not rotate minimizing wear on electricall cables. Drive tire changing is simplified with this drive unit.

Crown's AC Drive system dramatically improves travel speeds, acceleration and deceleration, thus increasing productivity.

The standard linear speed control provides smooth travel speed transition as lift heights change and increases productivity.

SP 3500 Series

Travel System

Truck performance specifications (maximum travel speed, coast, plugging, acceleration, travel speed at height, and low speed lowering) are adjustable using Access 1 2 3. This enables customizing truck performance to meet specific application or operator requirements.

Crown's InfoPoint system offers evolutionary refinement for service simplicity. The InfoPoint Quick Reference Guide, on-truck component maps and information nuggets located throughout the truck allow technicians to troubleshoot without schematics, wiring diagrams, or service manuals for more than 95 percent of repairs.

The InfoPoint Quick Reference Guide provides code definition and overall component ID so the technician knows what it is, where it is, and what it does (Three W's). InfoPoint ensures faster, simpler, and higher quality service.

Intelligent Steering Standard on the SP 3500 Series is electronic steering that is microprocessor based.

Crown's intelligent steering feature slows the truck automatically when the steer wheel is turned beyond 10°. Access 1 2 3 monitors the height of the operator platform, truck speed and steer wheel position.

Steering wheel rotation provides smooth, operator feedback. Steer effort is minimal, lock to lock revolutions is 4.5 turns. Drive wheel rotates a full 180° for maximum maneuverability. Auto centering drive tire for trucks equipped with rail guidance. Steering is connected to the Control System for full diagnostics and operator interface.

Intelligent Braking System (IBS)

Crown's patented Intelligent Braking System combines motor braking with optimum amounts of friction braking (three varying levels of force). 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. Brake lining life can be expected to last up to twice as long before replacement is necessary.

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

Simplified Hydraulics

Heavy-duty series wound pump motors and gear pumps are assembled into an integral unit. High-speed lift is standard on SP 3520 and SP 3550H models. Crown-manufactured solenoid type manifolds with built-in checks and relief valves.

Two-speed lowering (high/low) with soft start is standard on all models. Low speed lowering is adjustable with the use of the Access 1 2 3 Display. Soft-start lowering feature reduces the harshness at the beginning and end of the lowering cycle. The softer start is accomplished by controlling how quickly the proportional valve is opened or closed. Valve actuation is controlled by a driver in the steering control module.

Maximum lowering speed is regulated by a pressure

compensating flow control valve. Velocity fuses are used in all cylinders to stop lowering should lowering speed exceed a preset value due to a line rupture. A hydraulic accumulator is used to cushion raise and lower functions. Manual lowering control on manifold block allows lowering of platform from ground level. Oil reservoir is designed with a 100 mesh screen at the fill location, a suction strainer, spin-on type 10 micron return line filter and a magnetic drain plug.

The Crown Mast Assembly

High visibility two- and threestage masts feature nested rail design with lift cylinders positioned behind mast rails. Threestage mast has a low center position cylinder for free lift. Routing of hosing and cables optimizes visibility through mast. Built-in sensors detect chain slack and shut down primary lower function. Exclusive spring-loaded staging bumpers virtually eliminate platform impact as platform stages. Negative rail drop allows shimming of mast rollers without major disassembly.

Stronger Low Profile Power Unit

Power unit is fabricated from heavy-gauge steel. Lower skirt is .75" steel that runs 9" 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 also be lifted off for unrestricted service access. Door bolts have exclusive convex design that mates with concave door holes for fast reinstallation of door bolts. 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.

Wheels and Tires

Polyurethane drive tire, 13" diameter x 5.5" wide x 8" hub diameter. Tandem load wheels are 6" diameter polyurethane x 2.8" wide (4.25" wide for lift heights above 348"). Optional polyurethane aisle guide wheels are 2" wide with a 4" or 2.5" diameter.

Forks

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

Pallet Clamp

Standard equipment includes a foot-applied, hand-released pallet clamp designed for use with pallets having center stringers.

Safety Shield

Safety glass to protect operator from chains and moving parts while in his normal operating position.

Audible Travel Alarm Option

Safety considerations and dangers associated with audible travel alarms include: • Multiple alarms can cause

- 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 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. 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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