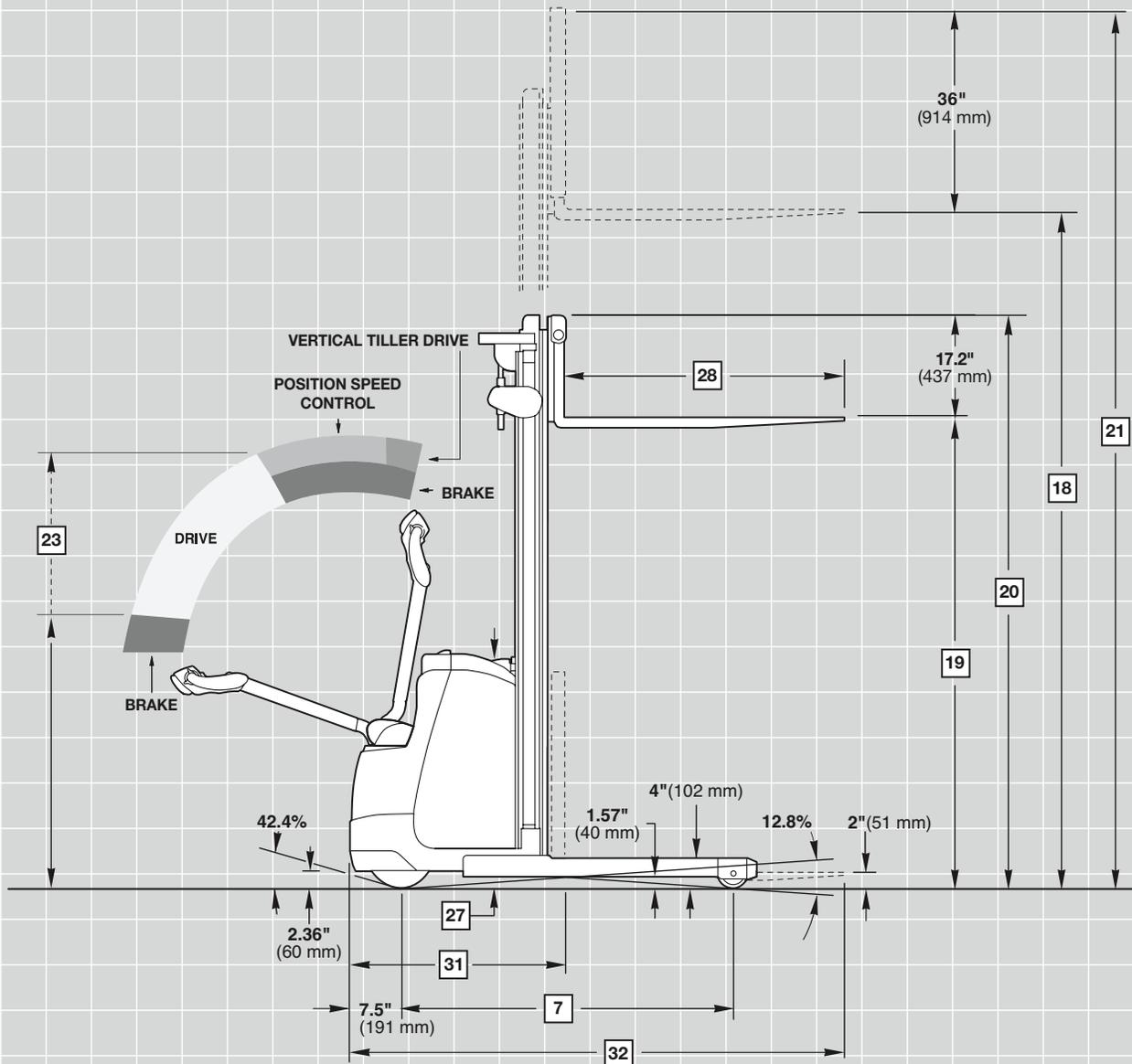
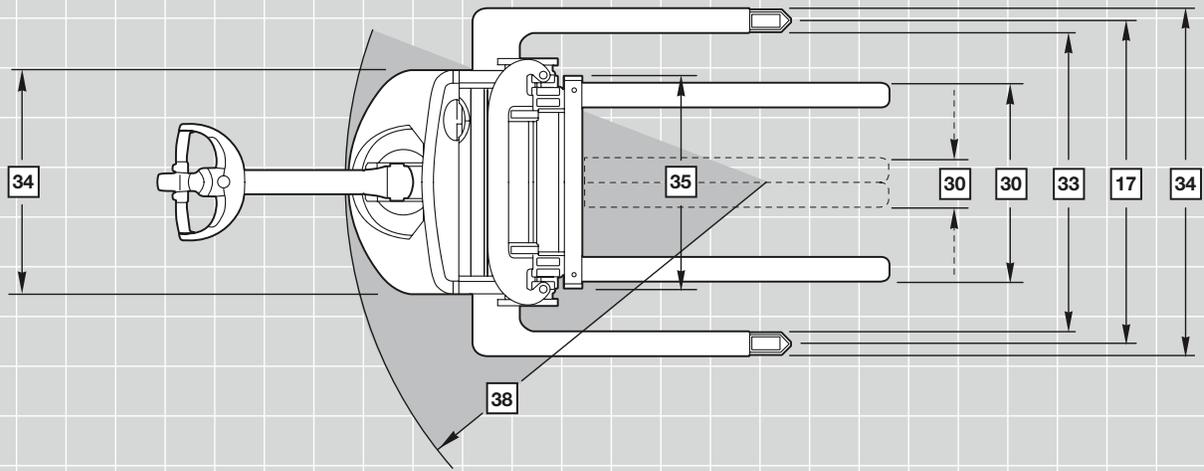


CROWN

ST 3200 SERIES

Specifications
Stackers





ST 3200 Series

Specifications

				Imperial	Metric	
General Information	1	Manufacturer		Crown Equipment Corporation		
	2	Model		ST 3200-25		
		Mast Type	in mm	TL-128	TL-3236	
	3	Power		Electric		
	4	Operator Type		Walkie		
	5	Load Capacity	Max	lb kg	2500	1134
	6	Load Center		in mm	24	600
	7	Wheelbase		in mm	49	1255
Tires	8	Weight Less Battery		lb kg	1856	842
	13	Wheel Size Front (d x w)	Poly	in mm	10 x 3.35	254 x 85
			Rubber	in mm	10 x 4	254 x 100
	14	Wheel Size Rear (d x w)	Poly	in mm	4 x 2	102 x 50
Steel			in mm	4 x 2	102 x 50	
15	Additional Wheels Caster Wheel (d x w)	Poly	in mm	3.54 x 2	90 x 50	
Dimensions	16	Wheels Number (x=driven)	Front/Rear		1x /2	
	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76
	18	Lift Height		in mm	127.4	3236
	18a	Capacity at Lift Height	24" (600 mm) Load Center	lb kg	2500	1134
			26" (660 mm) Load Center	lb kg	2300	1043
			28" (711 mm) Load Center	lb kg	2130	966
			30" (762 mm) Load Center	lb kg	1980	898
	19	Free Lift	w/o Load Backrest	in mm	6	152
	20	Collapsed Height		in mm	83	2108
	21	Extended Height	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436
			w/Load Backrest	in mm	Lift Height + 36	Lift Height + 914
	22	Load Backrest Width	Load Backrest Height 36" (914) High	in mm	36/42/48	914/1067/1219
	23	Tiller Arm Ht in Drive Position	Min/Max	in mm	31.1/47.5	790/1206
	24	Outrigger Height		in mm	4	100
	25	Lowered Fork Height		in mm	2	51
	27	Power Unit Height		in mm	32.28	820
	28	Fork Lengths		in mm	36/42/48	914/1067/1219
	29	Fork Dimensions	Thickness x Width	in mm	1.5 x 3	38 x 76
	30	Width Across Forks	Adjustable Min/Max	in mm	6.57 - 24.8	167-630
	31	Headlength		in mm	32.24	819
32	Overall Length			Headlength + Fork Length		
33	Inside Straddle		in mm	38-50	965-1270	
34	Overall Width	Front	in mm	28.03	712	
		Rear	in mm	Inside Straddle + 6.4	Inside Straddle + 162	
35	Fork Carriage Width		in mm	26.57	675	
36	Ground Clearance	w/Load below Mast	in mm	1.57	40	
37		Center Wheelbase	in mm	1.57	40	
38	Turning Radius		in mm	56.73	1446	
Performance	39	Length w/Outriggers		in mm	60.28	1536
	40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5
	41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18
	42	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25
			Lowering Speed 2	w/wo Load	fpm m/s	19.69/11.81
	43	Gradeability	w/wo Load, 60 min Rating	%	2.4	4.5
			w/wo Load, 30 min Rating	%	4.9	9.1
	44	Max Gradeability	w/wo Load, 5 min Rating	%	8.4	15.7
45	Service Brake			Electric		
Battery	46	Maximum Battery Box	LxWxH	in mm	7.28 x 25.55 x 24.13 (w/No Clearance)	185 x 649 x 613 (w/No Clearance)
	47	Battery Voltage (Nominal Capacity 6 Hour Rating)	4x Automotive Starter	V/Ah	24	87
			2x 12v MF	V/Ah	24	95
			4x Semi-industrial	V/Ah	24	156
			4x 6v MF	V/Ah	24	195
48	Type of Controller	Drive		Transistor		
49	Battery Weight	4x Automotive Starter	lb kg	128	58	
		2x 12v MF	lb kg	132	60	
		4x Semi-industrial	lb kg	220	100	
		4x 6v MF	lb kg	267	121	

English conversions are approximations. Metric conversions should be done to find true values.

Note: For Right Angle Stack information, please refer to the Right Angle Stack Calculator.

ST 3200 Series

Specifications

			Imperial	Metric		
General Information	1	Manufacturer	Crown Equipment Corporation			
	2	Model	ST 3200-25			
		Mast Type	in mm	TT-154	TT-3912	
	3	Power	Electric			
	4	Operator Type	Walkie			
	5	Load Capacity	Max	2500	1134	
	6	Load Center	in mm	24	600	
	7	Wheelbase	in mm	49	1255	
Tires	8	Weight Less Battery	lb kg	2048	929	
	13	Wheel Size Front (d x w)	Poly	in mm	10 x 3.35	254 x 85
			Rubber	in mm	10 x 4	254 x 100
	14	Wheel Size Rear (d x w)	Poly	in mm	4 x 2	102 x 50
			Steel	in mm	4 x 2	102 x 50
	15	Additional Wheels Caster Wheel (d x w)	Poly	in mm	3.54 x 2	90 x 50
	16	Wheels Number (x=driven)	Front/Rear	1x/2		
	17	Track Width	Rear	Inside Straddle + 3	Inside Straddle + 76	
18	Lift Height	in mm	154	3912		
Dimensions	18a	Capacity at Lift Height	24" (600 mm) Load Center	lb kg	2500	1134
			26" (660 mm) Load Center	lb kg	2300	1043
			28" (711 mm) Load Center	lb kg	2130	966
			30" (762 mm) Load Center	lb kg	1980	898
	19	Free Lift	w/o Load Backrest	in mm	56	1422
	20	Collapsed Height		in mm	73	1858
	21	Extended Height	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436
			w/Load Backrest	in mm	Lift Height + 36	Lift Height + 914
	22	Load Backrest Width	Load Backrest Height 36" (914) High	in mm	36/42/48	914/1067/1219
	23	Tiller Arm Ht in Drive Position	Min/Max	in mm	31.1/47.5	790/1206
	24	Outrigger Height		in mm	4	100
	25	Lowered Fork Height		in mm	2	51
	27	Power Unit Height		in mm	32.28	820
	28	Fork Lengths		in mm	36/42/48	914/1067/1219
	29	Fork Dimensions	Thickness x Width	in mm	1.5 x 3	38 x 76
	30	Width Across Forks	Adjustable Min/Max	in mm	6.57 - 24.8	167-630
	31	Headlength		in mm	32.95	837
	32	Overall Length		Headlength + Fork Length		
	33	Inside Straddle		in mm	38-50	965-1270
	34	Overall Width	Front	in mm	28.03	712
Rear			in mm	Inside Straddle + 6.4	Inside Straddle + 162	
35	Fork Carriage Width		in mm	26.57	675	
36	Ground Clearance	w/Load below Mast	in mm)	1.57	40	
37		Center Wheelbase	in mm	1.57	40	
38	Turning Radius		in mm	56.73	1446	
Performance	39	Length w/Outriggers		in mm	60.28	1536
	40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5
	41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18
	42	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25
			Lowering Speed 2	w/wo Load	fpm m/s	19.69/11.81
	43	Gradeability	w/wo Load, 60 min Rating	%	2.4	4.5
			w/wo Load, 30 min Rating	%	4.9	9.1
	44	Max Gradeability	w/wo Load, 5 min Rating	%	8.4	15.7
45	Service Brake		Electric			
Battery	46	Maximum Battery Box	LxWxH	in mm	7.28 x 25.55 x 24.13 (w/No Clearance)	185 x 649 x 613 (w/No Clearance)
	47	Battery Voltage (Nominal Capacity 6 Hour Rating)	4x Automotive Starter	V/Ah	24	87
			2x 12v MF	V/Ah	24	95
			4x Semi-industrial	V/Ah	24	156
			4x 6v MF	V/Ah	24	195
	48	Type of Controller	Drive	Transistor		
49	Battery Weight	4x Automotive Starter	lb kg	128	58	
		2x 12v MF	lb kg	132	60	
		4x Semi-industrial	lb kg	220	100	
		4x 6v MF	lb kg	267	121	

English conversions are approximations. Metric conversions should be done to find true values.

Note: For Right Angle Stack information, please refer to the Right Angle Stack Calculator.

ST 3200 Series

Specifications

				Imperial	Metric	
General Information	1	Manufacturer		Crown Equipment Corporation		
	2	Model		ST 3200-25		
		Mast Type	in mm	TT-168	TT-4267	
	3	Power		Electric		
	4	Operator Type		Walkie		
	5	Load Capacity	Max	lb kg	2500	1134
	6	Load Center		in mm	24	600
	7	Wheelbase		in mm	49	1255
8	Weight Less Battery		lb kg	2048	929	
Tires	13	Wheel Size Front (d x w)	Poly	in mm	10 x 3.35	254 x 85
			Rubber	in mm	10 x 4	254 x 100
	14	Wheel Size Rear (d x w)	Poly	in mm	4 x 2	102 x 50
			Steel	in mm	4 x 2	102 x 50
	15	Additional Wheels Caster Wheel (d x w)	Poly	in mm	3.54 x 2	90x50
16	Wheels Number (x=driven)	Front/Rear		1 x /2		
17	Track Width	Rear		Inside Straddle + 3	Inside Straddle + 76	
18	Lift Height		in mm	168	4267	
Dimensions	18a	Capacity at Lift Height	24" (600 mm) Load Center	lb kg	2500	1134
			26" (660 mm) Load Center	lb kg	2300	1043
			28" (711 mm) Load Center	lb kg	2130	966
			30" (762 mm) Load Center	lb kg	1980	898
	19	Free Lift	w/o Load Backrest	in mm	56	1422
	20	Collapsed Height		in mm	73	1858
	21	Extended Height	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436
			w/Load Backrest	in mm	Lift Height + 36	Lift Height + 914
	22	Load Backrest Width	Load Backrest Height 36" (914) High	in mm	36/42/48	914/1067/1219
	23	Tiller Arm Ht in Drive Position	Min/Max	in mm	31.1/47.5	790/1206
	24	Outrigger Height		in mm	4	100
	25	Lowered Fork Height		in mm	2	51
	27	Power Unit Height		in mm	32.28	820
	28	Fork Lengths		in mm	36/42/48	914/1067/1219
	29	Fork Dimensions	Thickness x Width	in mm	1.5 x 3	38 x 76
	30	Width Across Forks	Adjustable Min/Max	in mm	6.57 - 24.8	167-630
	31	Headlength		in mm	32.95	837
	32	Overall Length			Headlength + Fork Length	
33	Inside Straddle		in mm	38-50	965-1270	
34	Overall Width	Front	in mm	28.03	712	
		Rear	in mm	Inside Straddle + 6.4	Inside Straddle + 162	
35	Fork Carriage Width		in mm	26.57	675	
36	Ground Clearance	w/Load below Mast	in mm	1.57	40	
37		Center Wheelbase	in mm	1.57	40	
38	Turning Radius		in mm	56.73	1446	
39	Length w/Outriggers		in mm	60.28	1536	
40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5	
41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18	
42	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25	
	Lowering Speed 2	w/wo Load	fpm m/s	19.69/11.81	.10/.06	
43	Gradeability	w/wo Load, 60 min Rating	%	2.4	4.5	
		w/wo Load, 30 min Rating	%	4.9	9.1	
44	Max Gradeability	w/wo Load, 5 min Rating	%	8.4	15.7	
45	Service Brake			Electric		
Battery	46	Maximum Battery Box	LxWxH	in mm	7.28 x 25.55 x 24.13 (w/No Clearance)	185 x 649 x 613 (w/No Clearance)
	47	Battery Voltage (Nominal Capacity 6 Hour Rating)	4x Automotive Starter	V/Ah	24	87
			2x 12v MF	V/Ah	24	95
			4x Semi-industrial	V/Ah	24	156
			4x 6v MF	V/Ah	24	195
	48	Type of Controller	Drive		Transistor	
49	Battery Weight	4x Automotive Starter	lb kg	128	58	
		2x 12v MF	lb kg	132	60	
		4x Semi-industrial	lb kg	220	100	
		4x 6v MF	lb kg	267	121	

English conversions are approximations. Metric conversions should be done to find true values.

Note: For Right Angle Stack information, please refer to the Right Angle Stack Calculator.

Standard Equipment

1. 24-volt fused electrical system
2. MOSFET transistorized traction control, closed loop system
3. CAN Communication link
4. AC drive motor
5. e-GEN braking system
6. Electric parking brake
7. X10 Handle
8. Position Speed Control
9. Vertical Tiller Drive
10. Display includes hour meter, discharge indicator with lift lockout and fault code readout
11. Ramp hold
12. Drive unit enclosed in high ductile strength steel frame
13. Stamped steel power unit cover
14. Safety reversing button
15. 175-amp connector with disconnect handle
16. Color-coded wiring
17. High speed cut-out at lift height
18. Two pre-programmed performance levels
19. 10" x 3.35" wide (254 x 85 mm) Poly drive tire
20. Poly load wheels 4" x 2" wide (102 x 51 mm)
21. Adjustable outriggers
22. Battery compartment storage tray
23. Plexiglass mast guard
24. Horn
25. Key switch Anti-static strap
26. Discharge indicator with hour meter and lift lockout

Optional Equipment

1. Rubber drive tire
2. Non-marking rubber drive tire
3. Diamond siped rubber drive tire
4. Spring loaded poly casters
5. 36" (915 mm) high load backrest
6. Maintenance-free, semi-industrial or starter battery package
7. Freezer/corrosion conditioning
8. Amber strobe light
9. Travel alarm

10. Lift limit switch with or without Override
11. 30 amp fully automatic charger
12. V-Force Lithium-Ion Ready
13. Keyless on/off toggle switch in lieu of key switch
14. Steel load wheels
15. Wire mesh mast guard
16. Work Assist Accessories:
 - Clip pad and hook
 - Operator fan
 - Storage pocket
 - Remote raise/lower control
17. Work Assist Options:
 - Work platform (37.5" W x 26" L) (953 x 660 mm)
Platform options:
 - Work lights
 - Operator fan
 - Clip pad and hook
 - Adjustable load tray
 - Remote raise/lower control
 - Casters
 - Snap-on platform
18. InfoLink Ready

Battery and Charger

Battery package options are as follows:

- Maintenance-free battery pack, two 12-volt batteries at 95 amp hour
four 6-volt batteries at 195 amp hour
- Semi-industrial deep cycle battery pack, four 6-volt batteries at 156 amp hour
- Wet-cell starter battery pack, four 6-volt batteries at 87 amp hour
- V-Force Lithium-Ion Ready

A built-in 30-amp charger is required with all lead-acid battery packs (not available with V-Force Lithium Ion Ready). This premium fan-cooled, solid-state charger is durable and efficient. It has an advanced memory feature to allow for opportunity charging. The charger can be set for either maintenance free, wet cell or industrial batteries. An extension cord is included with any truck equipped with the built-in battery charger.

Operator Controls

Crown's robust X10 Handle places all controls in the optimum position for ease of operation with either hand and to minimize hand and wrist movements. An ergonomic forward/reverse thumb wheel allows for precise maneuvering.

The control hand grips are urethane covered for insulation from cold and vibration. Horn buttons are integrated into the control handle for easy activation. The handle contains a safety button which reverses the direction of the truck should the button touch the operator.

The physical efforts to hold the handle at a comfortable height was minimized to reduce fatigue, a distinct advantage. The operator is positioned to maximize the steer effort and maintain excellent visibility.

The rabbit/turtle switch incorporates two levels of programmable travel performance to match operator experience and application environment.

The position speed control enables operators to move the handle to a near vertical position while engaging traction at creep speed when maneuvering loads. The vertical tiller drive function is enabled with the handle completely vertical and allows for fine-tuned positioning in tight spaces.

Performance

The ST 3200 Series benefits from Crown's design and engineering excellence.

The transistor control module works in conjunction with a new separately excited (SEM) drive motor to provide excellent acceleration and top travel speed loaded or empty. Transistor control is programmable for specific tasks or operator skill levels.

Smooth travel and lift combine with excellent controls to reduce product damage and increase productivity.

Electrical System

A heavy-duty 24-volt fused electrical system provides good travel and lift speeds.

Separately excited motor control eliminates directional contractors reducing maintenance and downtime.

The transistor control is sealed from dirt, dust and moisture for trouble-free operation. Transistor control features include over-temperature protection, polarity protection, self-test and visible diagnostics.

Regenerative motor braking is activated under a downhill condition, during plugging or when the directional control is returned to neutral. "Regen" reduces heat build-up and extends motor brush life.

An anti-roll down feature will apply the brakes if the truck rolls without a travel command.

175-amp battery connector with standard disconnect handle.

Hydraulic System

Heavy-duty hydraulic motor (3.0 kw) with integral pump and reservoir for maximum efficiency and durability.

Proportional lift and lowering is available to the operator.

Cylinder rods are hard-plated chrome with polyurethane seals.

Relief valve tuned to capacity protects all components in the hydraulic system.

Drive Unit and Brakes

Heavy-duty gearbox with helical and spiral bevel gears for quiet operation.

Drive unit is equipped with an electromagnetic disc brake that is spring applied and electrically released. Brake is activated by the control handle position. Brake rotor and disc are easily accessed for inspection and replacement. Regenerative motor braking assists brake effort and improves component life.

Drive unit mounts in truck frame with a permanently lubricated, twin-conical roller bearing that disperses load forces evenly, reducing maintenance and downtime.

Mast

High visibility two- and three-stage mast design features nested I-beams and canted rollers. Lift cylinders are positioned in outer I-beam profile for best visibility through the mast and clear view onto fork tips during load handling. Mast cushioning between stages ensures smooth operation. Heavy-duty mast and chain rollers are sealed and lubricated for life. Mast design allows for easy access to carriage rollers.

Fork Carriage

ST 3200 Series feature 25" (635 mm) wide pin-type fork carriage. Forks are adjustable from 6.5" to 24.8" (165 to 630 mm). Standard fork lengths are 36", 42" and 48" (914, 1067 and 1219 mm).

Serviceability

One-piece steel power unit cover is removed easily for access to all major components.

Brake rotor and disc inspection and replacement are easy.

Drive motor brush access is excellent.

Color-coded wiring speeds troubleshooting and the transistor control module uses visible LED flashes for fault communication. Optional plug-in hand set analyzer for servicing and programming capability.

Control handle switch cap is easily removed to expose components.

Wheels and Tires

- Drive tire – Poly 10" dia x 3.35" wide (254 x 85 mm)
- Load wheels – Poly 4" dia x 2" wide (ST) (102 x 51 mm)
- Optional poly casters are 3.5" dia x 2" wide (89 x 51 mm)

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.



crown.com

You can count on Crown to sell 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, the Crown logo, the color beige, the Momentum symbol, Work Assist and X10 are trademarks of Crown Equipment Corporation in the United States and other countries.

Copyright 2004-2024 Crown Equipment Corporation
SF14388 Rev. 01-24
Printed in U.S.A.