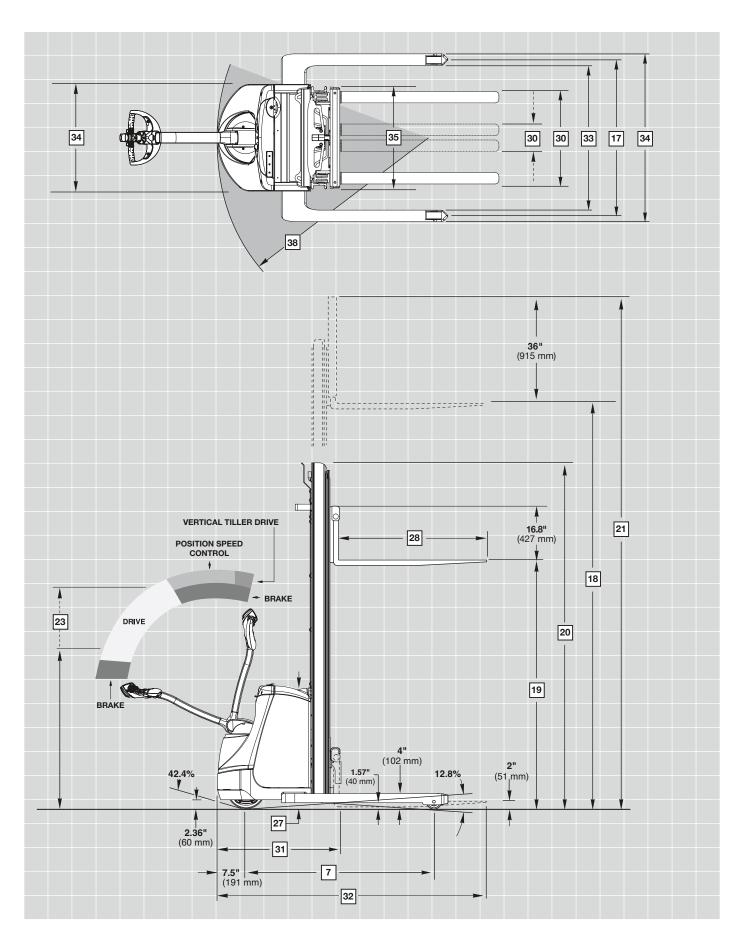


M 3200SERIES

SpecificationsWalkie Straddle Stacker







Name Mark Type					[lmn	erial			Me	etric		
Mast Type		1	Manufacturer											
S Weight Less Battery														
S Weight Less Battery	ati		Mast Type		in mm	TL-90	TL-110	TL-130	TL-144	TL-2305	TL-2805	TL-3305	TL-3655	
S Weight Less Battery	ᇤ	3	Power											
S Weight Less Battery	道	4	Operator Type			Walkie								
S Weight Less Battery	<u>a</u>	5	Load Capacity		lb kg	2000 900								
S Weight Less Battery	au	6	Load Center		in mm				600					
Wheel Size Front (d x w)	ဇၱ	7	Wheelbase		in mm		49				. 12	255		
Meel Size Rear (x w)		8	Weight Less Battery		lb kg	1663	1704	1746	1775	754	773	792	805	
Meel Size Rear (d x w)		13	<u> </u>	Poly	in mm		10 x	3.35			254	x 85		
Steel				Rubber	in mm	10 x 4			254 x 100					
The first content wheel (d x w) Foly in mm 3.54 x 2		14	Wheel Size Rear (d x w)	Poly	in mm				102 x 50					
Caster wheels Number (x = driven)	တ္ဆ			Steel	in mm	4 x 2			102 x 50					
Caster wheels Number (x = driven)	i E	15		Poly	in mm	3.54 x 2			90 x 50					
			• • • • • • • • • • • • • • • • • • • •	,					00 X 00					
17 Track Width		16		Front / Rear		1x/2								
18		47	(x = driven)											
Real Capacity at Lift Height	$\vdash \vdash$	_		near		00		1	4 / /	2205			2055	
Part				04" (600 mm) 1 0							-			
Part		18a	Capacity at Lift Height						 					
19 Free Lift														
19 Free Lift												1		
Collapsed Height		10	Eroo Lift	30 (702 11111) LC		1370			1370	703			700	
Extended Height		_				65			01	1640		1	2215	
Variety Vari				w/o Load Backrest								 		
2		21	Extended Height						_			-		
23 Tiller Arm Height 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 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 32.24 819 30 Width Across Forks Adjustable Min / Max in mm 32.24 819 31 Headlength without fork locks in mm 32.24 819 32 Overall Length Without fork locks in mm 32.6 826 33 Inside Straddle in mm 38 - 50 965 - 1270 34 Overall Width Front in mm 28.03 7.12 35 Fork Carriage Width Rear in mm 1.57 40 36 Ground Clearance w/ Load below Mast in mm 26.57 675 37 Turning Radius in mm 56.73 1446 40 Travel Speed w/ wo Load, 60 min Rating %		22	Load Backrost Width			121	l		100	OZZO			4010	
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Drive Position S1.1747.5 7907 1205		23								700 / 4000				
25 Lowered Fork Height						31.1 / 47.5				790 / 1206				
Provest		24	Outrigger Height		in mm	4			100					
Adjustable Min / Max in mm mithout fork locks Adjustable Min / Max with fork locks Adjustable Min / Max with fork locks Adjustable Min / Max with fork locks in mm 32.24 819 with fork locks in mm 32.6 82	တ	25	Lowered Fork Height		in mm	2			51					
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With fork locks 183-616 183-616									101 000					
31 Headlength without fork locks in mm 32.24 819									183 - 616					
With fork locks in mm 32.6 826														
32 Overall Length		31	Headlength											
33 Inside Straddle		20	Overall Length	WILLI LOLK LOCKS	in min					Eorle Lore				
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42 Lowering Speed	ا ۾	41		w/ wo Load fp	om/m/s	27.56 / 43.31			0.14 / 0.22					
Hillar Gradedomity W we Lead, 6 Hill Hading 76	anc	42	Lowering Speed	w/ wo Load fp	om / m/s									
Hillar Gradedomity W we Lead, 6 Hill Hading 76	l m	43	Gradeability											
Hillar Gradedomity W we Lead, 6 Hill Hading 76	erfo			w/ wo Load, 30 min Ra										
45 Service Brake	ا يه			w/ wo Load, 5 min Rat										
Liound	45 Service Brake Elect							tric						

					Imperial	Metric			
	46	Maximum Battery Box	LxWxH	in mm	7.28 x 25.55 24.13	185 x 649 x 613			
	47	Battery Voltage 4x 6V Automotive Starte		V/Ah	24 / 87				
		(Nominal Capacity	2x 12V Maintenance Free	V / Ah	24 / 95				
		6 Hour Rating)	4x 6V Semi-Industrial	V/Ah	24 /	156			
le l			4x 6V Maintenance Free	V/Ah	24 / 195				
Battery	48 Type of Controller Drive		Drive		Transistor				
-	49	Battery Weight	4x 6V Automotive Starter	lb kg	128	58			
			2x 12V Maintenance Free	lb kg	132	60			
			4x 6V Semi-Industrial	lb kg	220	100			
			4x 6V Maintenance Free	lb kg	267	121			

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

M 3200 Series

Technical Information

Standard Equipment

- 1. 24-volt fused electrical system
- 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
- 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
- 12. 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
- Maintenance-free, semiindustrial or starter battery package
- 7. Freezer/corrosion conditioning
- 8. Amber strobe light
- 9. Travel alarm
- 10. 30 amp fully automatic charger
- 11. V-Force Lithium-Ion Ready

- 12. Keyless on/off toggle switch in lieu of key switch
- 13. Steel load wheels
- 14. Wire mesh mast guard
- 15. Drive/tow switch
- 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
- Storage pocket
- Snap-on platform
- 18. Fork locks
- 19. 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

Flooded battery packs have a slide-out feature to check water level of bottom batteries.

A built-in 30-amp charger is required with all lead acid battery packs (not available with V-Force Lithium-lon 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 on-board 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 M 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 overtemperature 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

The standard hydraulic lift package features a hydraulic motor (2.2 kw) with integral pump and reservoir. 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-stage mast design features nested I-beams and canted rollers. A single lift cylinder is positioned in the center of the mast for a clear view onto fork tips during load handling. A bumper on the cylinder rod provides a smooth landing when lowering forks. Heavy-duty mast and chain rollers are sealed and lubricated for life. Mast design allows for easy access to carriage rollers.

Fork Carriage

M 3200 Series feature 25" (635 mm) wide pin-type fork carriage. Forks are adjustable from 6.5" to 24.8" (165 to 630 mm) without fork locks or 7.2" to 24.3" (183 to 616 mm) with fork locks. 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.



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.

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