

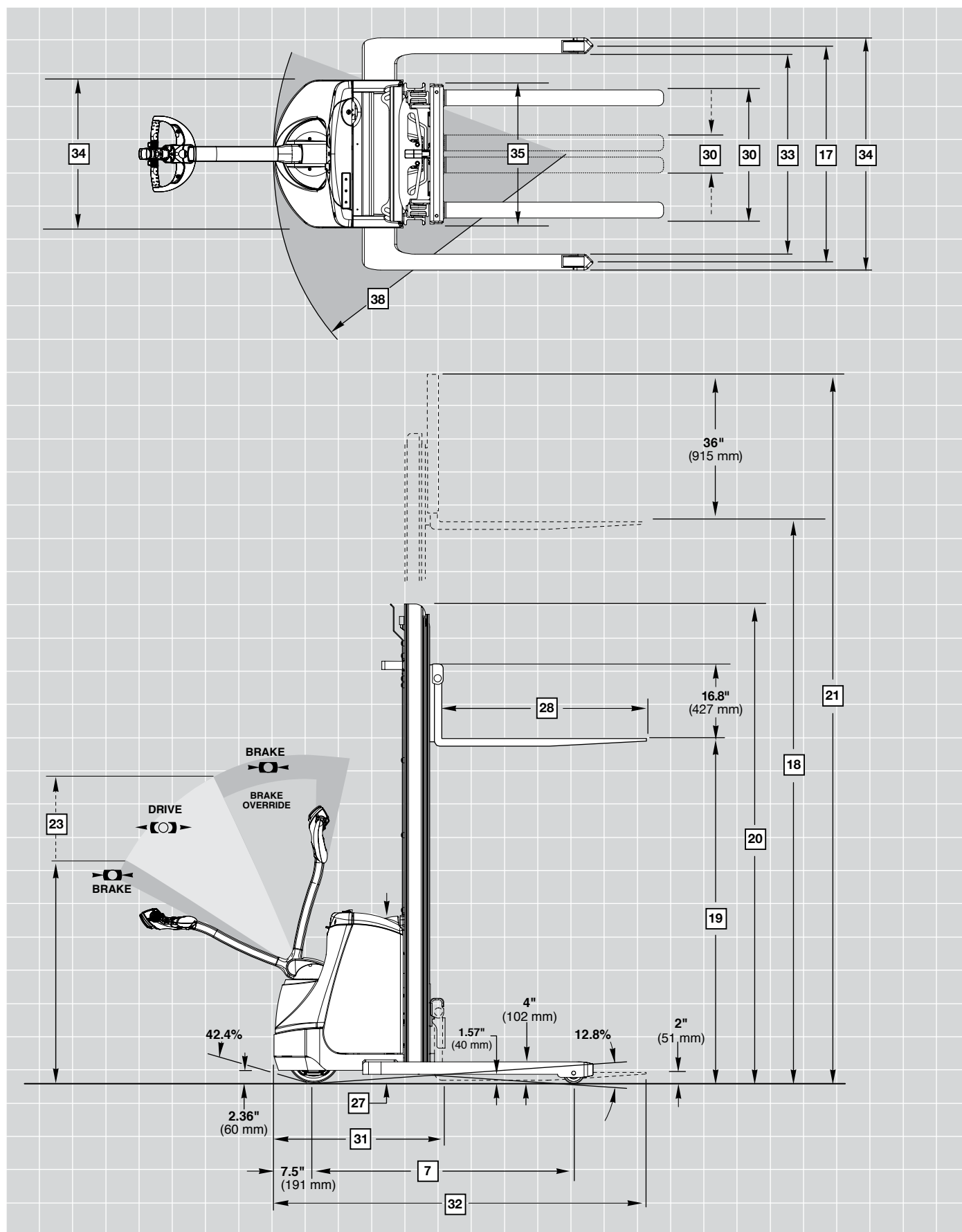


M 3000 SERIES

Specifications

Walkie Straddle Stacker





Specifications

				Imperial				Metric			
General Information	1	Manufacturer		Crown Equipment Corporation							
	2	Model		M 3000-20							
		Mast Type	in mm	TL-90	TL-110	TL-130	TL-144	TL-2305	TL-2805	TL-3305	TL-3655
	3	Power		Electric							
	4	Operator Type		Walkie							
	5	Load Capacity	lb kg	2000				900			
	6	Load Center	in mm	24				600			
	7	Wheelbase	in mm	49				1255			
8	Weight Less Battery	lb kg	1663	1704	1746	1775	754	773	792	805	
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				90 x 50			
	16	Wheels Number (x = driven)	Front / Rear	1x / 2							
Dimensions	17	Track Width	Rear in mm	Inside Straddle + 3				Inside Straddle + 76			
	18	Lift Height	in mm	90	110	130	144	2305	2805	3305	3655
	18a	Capacity at Lift Height	24" (600 mm) LC lb kg	2000	2000	2000	2000	900	900	900	900
			26" (660 mm) LC lb kg	1815	1815	1815	1815	815	815	815	815
			28" (711 mm) LC lb kg	1685	1685	1685	1685	755	755	755	755
			30" (762 mm) LC lb kg	1570	1570	1570	1570	705	705	705	705
	19	Free Lift	in mm	6				152			
	20	Collapsed Height	in mm	65	75	85	91	1640	1890	2140	2315
	21	Extended Height	w/o Load Backrest in mm	108	128	148	161	2745	3245	3745	4095
			w/ Load Backrest in mm	127	147	167	180	3225	3725	4225	4575
	22	Load Backrest Width	Load Backrest Height 36" (915 mm) High in mm	30 / 36 / 42				762 / 914 / 1067			
	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	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 without fork locks in mm	6.57 - 24.8				167 - 630			
			Adjustable Min / Max with fork locks in mm	7.2 - 24.3				183 - 616			
	31	Headlength	without fork locks in mm	32.24				819			
with fork locks in mm			32.6				826				
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				Inside Straddle + 153				
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				
Performance	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	27.56 / 43.31				0.14 / 0.22			
	42	Lowering Speed	w/ wo Load fpm / m/s	51.18 / 43.31				0.26 / 0.22			
	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								

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Specifications

Battery	46	Maximum Battery Box	Imperial		Metric	
			L x W x H		in mm	
	47	Battery Voltage (Nominal Capacity 6 Hour Rating)	4x 6V Automotive Starter	V / Ah	24 / 87	
			2x 12V Maintenance Free	V / Ah	24 / 95	
			4x 6V Semi-Industrial	V / Ah	24 / 156	
			4x 6V Maintenance Free	V / Ah	24 / 195	
	48	Type of Controller	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.

Standard Equipment

1. 24-volt fused electrical system
2. MOSFET transistorized traction control system
3. Separately excited drive motor (SEM)
4. X10® Handle
5. Wet-cell starter battery pack, four 6-volt batteries at 87 amp hour
6. 30 amp fully automatic charger
7. Electric brake
8. Brake override
9. Anti-roll down
10. Regenerative motor braking
11. Heavy-duty drive unit
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
26. Discharge indicator with hour meter and lift lockout
7. Maintenance-free, semi-industrial or starter battery package
8. Keyless on/off toggle switch in lieu of key switch
9. Steel load wheels
10. Wire mesh mast guard
11. Soft start hydraulic control
12. Work Assist® Accessories:
 - Clip pad and hook
 - Operator fan
 - Storage pocket
 - Remote raise/lower control
13. 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
14. Fork locks
15. InfoLink® Ready

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

Optional Equipment

1. Rubber drive tire
2. Non-marking rubber drive tire
3. Diamond siped rubber drive tire
4. Spring loaded poly casters
5. Handset analyzer for calibration or fault analyzing
6. 36" (915 mm) high load backrest

A built-in 30-amp charger is standard with all battery packs. 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.

Exclusive brake override allows slow speed travel with the handle near vertical. This feature improves maneuverability in tight areas.

Performance

The M 3000 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

The standard hydraulic lift package features a hydraulic motor (2.2 kw) with integral pump and reservoir. Single-speed lift and single-speed lowering is available to the operator.

The optional soft start hydraulic lift package features a hydraulic motor (3 kw) with integral pump and reservoir for greater efficiency and durability. Single-speed lift and two-speed 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 spur gears for low noise emission.

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 3000 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.



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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.

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