

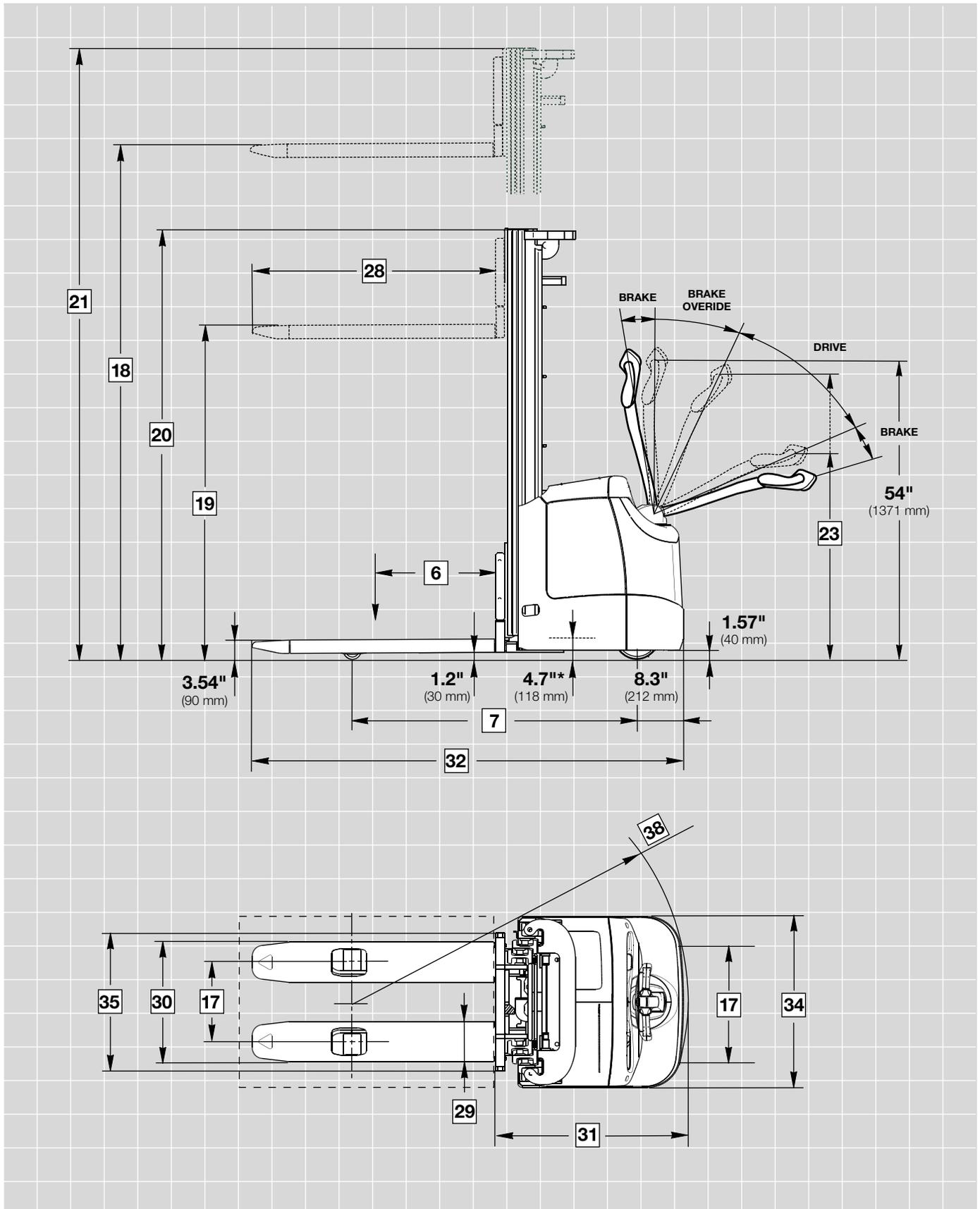
CROWN

ES 4000 SERIES

Specifications

Walkie Fork Over Stacker





* 5" (128 mm) with battery compartment rollers

ES 4000 Series

Specifications

				Imperial		Metric		
General Information	1	Manufacturer		Crown Equipment Corporation				
	2	Model		ES 4000-35				
		Mast Type (TL / TF)	in / mm	TL 128	TF 132	TL 3260	TF 3360	
	3	Power		Electric				
	4	Operator Type		Walkie				
	5	Load Capacity Max	lb / kg	3500 ⁽³⁾		1588 ⁽³⁾		
	5.5	Capacity @ Lift Height 24" Load Center	lb / kg	3000	2800	1361	1270	
	6	Load Center	in / mm	24		600		
7	Wheelbase	in / mm	50.35		1279			
8	Weight Less Battery	lb / kg	2103	2132	954	967		
Tires	13	Drive Tire (d x w) Vulkollan	in / mm	9.05 x 2.75		230 x 70		
	14	Load Wheels (d x w) Vulkollan	in / mm	tandem 3.23 x 2.36		tandem 82 x 60		
	15	Caster Wheel (d x w)	in / mm	5.51 x 2.13		140 x 54		
	16	Wheels (x=driven) Front/Rear	in / mm	1x + 1 / 4		1x + 1 / 4		
	17	Track Width	Front Rear	21.34		542		
Dimensions			in / mm	15.55		395		
	18	Lift Height	in / mm	128	132	3260	3360	
	19	Free Lift w/o Load Backrest ⁽¹⁾	in / mm	7	66.5	180	1690	
	20	Collapsed Height	in / mm	85.9		2180		
	21	Extended Height w/o LBR ⁽²⁾	in / mm	147.6	151.5	3750	3850	
	22	Load Backrest Size width x height	in / mm	25.6 x 47.24		650 x 1200		
	23	Tiller Arm Height in Drive Position Min/Max	in / mm	31 / 48.5		786 / 1231		
	24	Battery Compartment Floor Ht w/o rollers	in / mm	4.7		118		
	25	Lowered Fork Height	in / mm	3.54		90		
	27	Power Unit Height	in / mm	33.9		862		
	28	Fork Length	standard	in / mm	42		1067	
	29	Fork Thickness		in / mm	2.4		60	
		Fork Width		in / mm	7.5		190	
	30	Width Across Forks		in / mm	26.53		674	
	31	Head Length		in / mm	31		788	
	32	Overall Length (42" /1067 mm fork)		in / mm	73		1855	
	34	Overall Width		in / mm	31.5		800	
	35	Fork Carriage Width		in / mm	29.92		760	
36	Ground Clearance w/Load Below Mast		in / mm	1.2		30		
37	Ground Clearance Center Wheelbase		in / mm	1.2		30		
38	Turning Radius		in / mm	59		1501		
Performance	40	Travel Speed	w/wo Load	mph / km/h	3.7 / 3.7		6.0 / 6.0	
	41	Lift Speed	w/wo Load	fpm / m/s	23.6 / 47.2		0.12 / 0.24	
	42	Lowering Speed	w/wo Load	fpm / m/s	71 / 55		0.36 / 0.28	
	43	Gradeability w/wo Load, 30 min Rating		%	3/7			
	44	Maximum Gradeability w/wo Load, 5 min Rating		%	8/16			
45	Service Brake			Electric				
Battery	46	Maximum Battery Size ⁽⁴⁾	L x W x H	in / mm	8.66 x 25.4 x 24.90		220 x 645 x 632	
	47	Battery Voltage (Nominal Capacity 6 Hour Rating) ⁽⁵⁾	V/Ah		24/195			
	48	Type of Controller Drive			AC transistor			
	49	Battery Weight minimum		lb / kg	635		288	

(1) With load backrest subtract 29.5" (750 mm) for TF mast

(2) With load backrest add 29.5" (750 mm)

(3) 3500 lb (1588 kg) to 110" (2794 mm) lift height

(4) 255 - 330 Ah industrial battery

(5) 195 Ah maintenance-free battery pack

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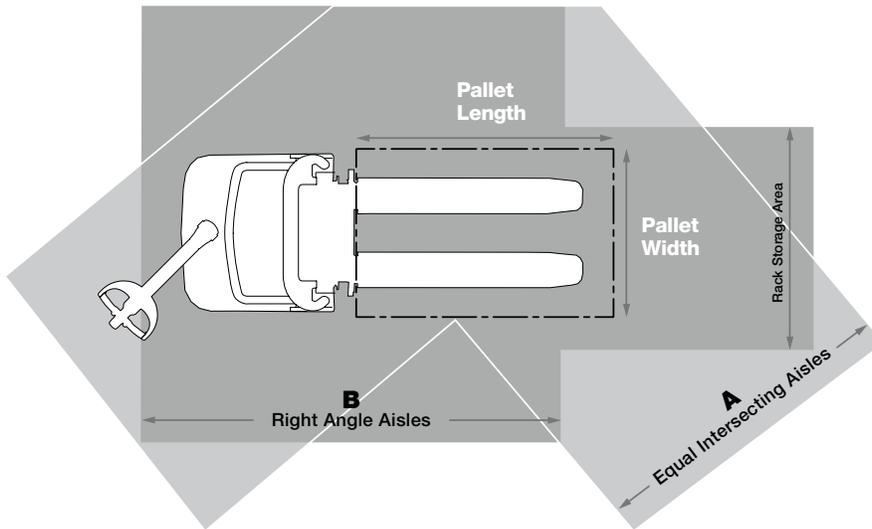
Specifications

Model			Imperial		Metric	
			ES 4000-35			
Mast Type (TL or TF)			TL 128	TF 132	TL 3260	TF 3360
Axle Load with load *	front	lb / kg	2284	2302	1036	1044
	rear	lb / kg	3956	3967	1794	1799
Axle Load without load*	front	lb / kg	2002	2020	908	916
	rear	lb / kg	736	747	334	339

* Axle loading calculated with 195 Ah maintenance free battery pack

ES 4000 Series

Aisle Planning Guide



Pallet Width		Pallet Length in (mm)									
		30 (762)		36 (915)		40 (1016)		42 (1067)		48 (1220)	
		A	B	A	B	A	B	A	B	A	B
36	in	59.1	83.2	59.1	83.2	59.1	83.2	59.1	83.2	59.1	83.2
915	mm	1500	2113	1500	2113	1500	2113	1500	2113	1500	2113
40	in	61.2	83.4	61.2	83.4	61.2	83.4	61.2	83.4	61.2	83.4
1016	mm	1553	2118	1553	2118	1553	2118	1553	2118	1553	2118
42	in	62.2	83.5	62.2	83.5	62.2	83.5	62.2	83.5	62.2	83.5
1067	mm	1580	2120	1580	2120	1580	2120	1580	2120	1580	2120
48	in	61.9	83.8	61.9	83.8	61.9	83.8	61.9	83.8	61.9	83.8
1220	mm	1571	2128	1571	2128	1571	2128	1571	2128	1571	2128

A = Equal Intersecting Aisles (minimum)

B = Right Angle Aisles (minimum)

The Rack Storage Area dimension is maximum pallet width + 6"
Add 6" (152 mm) to all aisle dimensions for maximum maneuverability.

Standard Equipment

1. The X10® Control Handle places all truck functions at the operator's fingertips.
2. Proportional lifting/lowering provided by a low-noise hydraulic system.
3. e-GEN® Braking System offers regenerative and frictionless electric braking. Mechanical braking applies only as parking brake.
4. Crown Access 1 2 3® Comprehensive System Control
 - LCD display
 - Hour meter
 - PIN code access
 - Start up and run time diagnostics
 - Battery discharge indicator and lift interrupt
 - 3 selectable traction performance profiles
 - Onboard diagnostics with real time trouble-shooting capabilities
5. Crown maintenance free 3-phase (AC) traction motor
6. CAN-Bus technology
7. Center mounted tiller
8. Electric power disconnect push button
9. Ramp hold
10. Vulkollan drive tire, caster wheel(s) and load wheels
11. Tandem load wheels
12. Heavy-duty chassis with 5/16" (8 mm) thick steel skirt
13. Easily removable steel cover
14. Hinged steel top battery cover for easy battery access
15. Plexiglass mast guard
16. Battery connector SB175 Gray
17. Sealed electrical Deutsch connectors
18. InfoPoint® System

Optional Equipment

1. Maintenance-free battery pack, 4 x 6v batteries, 195 Ah and 110v on-board charger
2. On-board Charger (industrial battery-lift out only)
3. Battery Connector SB175 Red
4. Drive Tire Options
5. Single Load Wheels
6. Heavy-Duty dual caster wheels
7. Fork length and spread options
8. 47.2" (1200 mm) high load
9. Keyless on/off toggle switch
10. Freezer conditioning (-22° F/-30° C)
11. InfoLink® options
12. Work Assist® accessory tube
13. Work Assist Accessories
 - Storage pockets
 - Hook
 - Clip pad
 - Clip pad and hook
 - Clamp
14. Wire mesh mast guard
15. Strobe Light
16. Travel alarm
17. 12v power supply
18. 24v power supply
19. Special paint

Electric System

24-volt electrical system incorporating Crown's Access 1 2 3 Comprehensive System Control. Virtually maintenance-free Crown AC traction motor provides strong acceleration and control at any speed. Sensors monitor functional parameters including steering, load weight, height, drive mode and speed and adjust operational settings automatically to suit conditions.

Power Unit

The rugged power unit features a reinforced 5/16" (8 mm) thick skirt to protect drive unit and caster components. Removable steel covers all around ensure internal components are protected against impacts yet easily accessible for service. On the inside a Crown-built AC traction motor and a low-noise cast iron gearbox provide reliable power.

Operator Area and Controls

The ES 4000 Series incorporates numerous design features to improve operator comfort and productivity.

The center mounted X10 Control Handle is designed for simultaneous operation of all functions with one hand and positions the operator in a safe distance to the power unit even with the tiller turned 90°. An ergonomic forward/reverse thumb wheel allows for precise maneuvering. The hand grips are urethane covered for insulation from cold and vibration with integrated horn buttons for easy activation.

A rabbit/turtle switch incorporates two levels of programmable travel performance so operators can select the setting that matches their experience level or application requirements.

Proportional lift and lowering allows easy and precise positioning of loads. The fast responsiveness and speeds of the lifting and lowering functions are designed to ensure high efficiency in all applications and all this together at a low noise level.

For easy operation in tight areas a brake override function is incorporated which allows the ES 4000 to be driven safely and precisely at creep speed with the handle in a near vertical position. The control handle remains within the profile of the power unit at all times, even when performing 90° turn.

Access 1 2 3® Comprehensive System Control

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

The display includes a full featured on-board service tool allowing service technicians to actively view inputs and outputs during truck operation. No laptop or service terminal is required. Event code history, including the last 16 events, is accessible through the display.

The display provides a convenient interface for operators, keeping them informed (hour meter, BDI, operator messages, service codes) of any changes impacting truck performance and allowing them to choose from three performance profiles when enabled.

Performance tuning can be accessed at the display to customize truck performance for specific applications or operator requirements. In addition, up to 25 PIN codes can be assigned to individual operators and matched to one of the pre-programmed performance profiles if desired.

e-GEN® Braking System

The power of the high-torque AC traction motor is used to stop the truck and keep it static until a travel input is requested, even when operating on a gradient.

This system eliminates adjustments and wear points for a lifetime of maintenance free use. An automatic parking brake activates if the truck is stopped or power is disconnected.

Other Options Available

Contact your local Crown dealer. Safety considerations and dangers associated with audible travel alarms and strobe 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

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 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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SF18917 09-14
Printed in U.S.A.