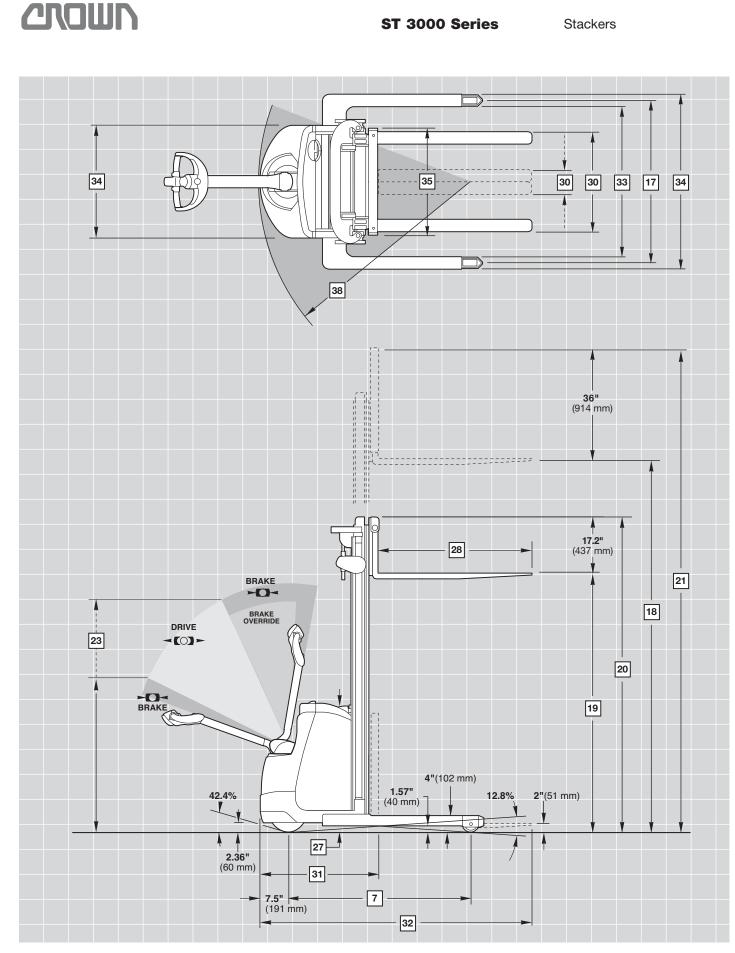


# ST 3000 SERIES

### **Specifications**

Stackers





					imperial	metric
ב	1	Manufacturer			· · · · · · · · · · · · · · · · · · ·	ent Corporation
General Information	2	Model				00-25
па		Mast Type		in mm	TL-128	TL-3236
5	3	Power			Elec	otric
Ĕ	4	Operator Type			Wa	Ilkie
<u></u>	5	Load Capacity	Max	lb kg	2500	1134
e.	6	Load Center		in mm	24	600
Ĭ	7	Wheelbase		in mm	49	1255
<u>ა</u>	8	Weight Less Battery		lb kg	1856	842
	10	Wissel City Frank (d )	Vulkollan	in mm	10 × 3.35	254 x 85
	13	Wheel Size Front (d × w)	Rubber	in mm	10 × 4	254 x 100
	14	M(1-1-1-0) D-1-1-(1-1-1-)	Vulkollan	in mm	4 × 2	102 x 50
မွ		Wheel Size Rear (d × w)	Steel	in mm	4 × 2	102 x 50
Tires	15	Additional Wheels Caster Wheel (d × w)	Poly	in mm	3.54 × 2	90 x 50
	16	Wheels Number (x=driven)	Front/Rear		1x	/2
	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76
	18			in mm	127.4	3236
			24" (600 mm) Load Center	lb kg	2500	1134
	4.0	0	26" (660 mm) Load Center	lb kg	2300	1043
	18a	Capacity at Lift Height	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			in mm	83	2108
		<u> </u>	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436
	21	Extended Height	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
တ္က	23	Tiller Arm Ht in Drive Position		in mm	31.1/47.5	790/1206
6	24	-	IVIII // IVIAX	in mm	4	100
Dimensions		Lowered Fork Height		in mm	2	51
ॼ॒	27			in mm	32.28	820
<u>≡</u>	28	ŭ		in mm	36/42/48	914/1067/1219
	29		Thickness × Width	in mm	1.5 × 3	38 x 76
	30		Adjustable Min/Max	in mm	6.57 - 24.8	167-630
	31		Adjustable Willi/Wax	in mm	32.24	819
	32					Fork Length
	33	<u> </u>		in mm	38-50	965-1270
	00	Inside Stradule	Front	in mm	28.03	712
	34	Overall Width	Rear	in mm	Inside Straddle + 6.4	Inside Straddle + 162
	35	Fork Carriage Width	i teai	in mm	26.57	675
	36	I SIR Samage Width	w/Load below Mast	in mm)	1.57	40
	37	Ground Clearance	Center Wheelbase	in mm	1.57	40
	38	Turning Radius	COLITO VVIIGODAGO	in mm	56.73	1446
$\dashv$	39			in mm	60.28	1536
		Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5
8	41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18
Performance		Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25
Ë	42	Lowering Speed 1	w/wo Load	fpm m/s	19.69/11.81	.10/.06
<u>ō</u>			w/wo Load, 60 min Rating	%	2.4	4.5
e l	43	Gradeability	w/wo Load, 30 min Rating	%	4.9	9.1
۵.	44	Max Gradeability	w/wo Load, 5 min Rating	%	8.4	15.7
	45	·	2000, 0 111111100119	70		otric
$\dashv$				.	7.28 × 25.55 × 24.13	185 x 649 x 613
	46	Maximum Battery Box	L×W×H	in mm	(w/No Clearance)	(w/No Clearance)
	47		4x Automotive Starter	V/Ah	24	87
		Battery Voltage (Nominal	2x 12v MF	V/Ah	24	95
			4x Semi-industrial	V/Ah	24	156
_	47	Capacity 6 Hour Rating)	Join maddina	V/Ah	24	195
tery	47	Capacity 6 Hour Rating)	4x 6v MF			100
sattery			4x 6v MF Drive	V/AII		sistor
Battery		Capacity 6 Hour Rating)  Type of Controller	Drive		Trans	sistor 58
Battery	48	Type of Controller	Drive 4x Automotive Starter	lb kg	Trans 128	58
Battery			Drive		Trans	

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

				[				
					imperial	metric		
General Information	1	Manufacturer				ent Corporation		
ati	2	Model				000-25		
٤١		Mast Type Power		in mm	TT-154	TT-3912		
⊦ق	3					ctric alkie		
⊦⊇	4	Operator Type  Load Capacity	Max	lb kg	vva 2500	1134		
_লু ⊦	6					600		
<u>ē</u> ⊦	-	Wheelbase		in mm	24 	1255		
₽ F	7 8	Weight Less Battery		in mm Ib kg	2048	929		
9	0	Weight Less Battery	Vulkollan		2046 10 x 3.35	254 x 85		
	13	Wheel Size Front (d x w)	Rubber	in mm in mm	10 x 4	254 x 100		
ŀ	_		Vulkollan	in mm	4 x 2	102 x 50		
S	14	Wheel Size Rear (d × w)	Steel	in mm	4 x 2	102 x 50		
Lires		Additional Wheels	Oteel		4 / 2	102 X 30		
-	15	Caster Wheel (d × w)	Poly	in mm	3.54 x 2	90 x 50		
-	10	, ,	Fuent/Dees		4.	/0		
-		Wheels Number (x=driven)	Front/Rear	in mm		V/2		
+	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76 3912		
-	ΙÖ	Lift Height	24" (600 mm) Load Center	in mm Ib kg	2500	1134		
			26" (660 mm) Load Center	lb kg	2300	1043		
	18a	Capacity at Lift Height	28" (711 mm) Load Center	lb kg	2130	966		
			30" (762 mm) Load Center	lb kg	1980	898		
- }	10	Free Lift	w/o Load Backrest	in mm	56	1422		
-	20	Collapsed Height	THE DUCKIEST	in mm	73	1858		
ŀ		-	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436		
	21	Extended Height	w/Load Backrest	in mm	Lift Height + 36	Lift Height + 914		
ŀ	22	Load Backrest Width	Load Backrest Height 36" (914) High	in mm	36/42/48	914/1067/1219		
က္ဆ	23	Tiller Arm Ht in Drive Position	· / 0	in mm	31.1/47.5	790/1206		
ნ ⊦	24	Outrigger Height	IVIII // IVIAX	in mm	4	100		
Dimensions				in mm	2	51		
إق	27	Power Unit Height		in mm	32.28	820		
<u>≒</u> ⊦		Fork Lengths		in mm	36/42/48	914/1067/1219		
┛┟	29		Thickness × Width	in mm	1.5 × 3	38 x 76		
ŀ	30		Adjustable Min/Max	in mm	6.57 - 24.8	167-630		
ı	31	Headlength	, regardante ivii i i i i i i i i i i i i i i i i i	in mm	32.95	837		
İ	32	Overall Length				+ Fork Length		
Ī	33	Inside Straddle		in mm	38-50	965-1270		
Ī	0.4	Occasion Winds	Front	in mm	28.03	712		
	34	Overall Width	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		
L	39			in mm	60.28	1536		
ایہ	40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5		
Pertormance	41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18		
na l	42	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25		
בַ		Lowering Speed 2	w/wo Load	fpm m/s	19.69/11.81	.10/.06		
Ĕ	43	Gradeability	w/wo Load, 60 min Rating	%	2.4	4.5		
ั ⊦		<u> </u>	w/wo Load, 30 min Rating	%	4.9	9.1		
-	44 45	Max Gradeability Service Brake	w/wo Load, 5 min Rating	%	8.4 Flor	15.7 ctric		
$\dashv$	40				7.28 × 25.55 × 24.13	185 x 649 x 613		
-	46	Maximum Battery Box	L×W×H	in mm	(w/No Clearance)	(w/No Clearance)		
	47	Datter Valley (Alemina)	4x Automotive Starter	V/Ah	24	87		
_		Battery Voltage (Nominal	2x 12v MF	V/Ah	24	95		
ē		Capacity 6 Hour Rating)	4x Semi-industrial	V/Ah	24	156		
battery		To a set O and as ii	4x 6v MF	V/Ah	24	195		
ığ	48	Type of Controller	Drive Olaska		Transistor			
- 1			4x Automotive Starter	lb kg	128	58		
				ا ما ا	132	60		
	49	Battery Weight	2x 12v MF	lb kg				
	49	Battery Weight	4x Semi-industrial 4x 6v MF	lb kg lb kg	220 267	100 121		

				Γ	imporial	metric	
	1	Manufacturer			imperial  Crown Fauinm	ent Corporation	
General Information	2	Model				00-25	
nai		Mast Type		in mm	TT-168	TT-4267	
DI.	3	Power			Elec	otric	
ufe	4	Operator Type			Wa	ılkie	
<del> </del>	5		Max	lb kg	2500	1134	
er	6			Ib kg in mm in mm Ib kg in mm Ib kg in mm	24	600	
en	7	Wheelbase			49	1255	
9	8	Weight Less Battery			2048	929	
	13	Wheel Size Front (d × w)	Vulkollan		10 x 3.35	254 x 85	
		, ,	Rubber Vulkollan	+	10 x 4 4 x 2	254 x 100 102 x 50	
S	14	Wheel Size Rear (d × w)	Steel	+	4 x 2 4 x 2	102 x 50	
Tires		Additional Wheels	Steel	111 111111	4 X Z	102 X 30	
-	15	Caster Wheel (d x w)	Poly	in mm	3.54 x 2	90x50	
	16	Wheels Number (x=driven)	Front/Rear		1 \	<u> </u>	
	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76	
		Lift Height	1 local		168	4267	
	<u></u>		24" (600 mm) Load Center		2500	1134	
	10-	Compains at Life Halada	26" (660 mm) Load Center		2300	1043	
	18a	Capacity at Lift Height	28" (711 mm) Load Center	lb kg	2130	966	
			30" (762 mm) Load Center	lb kg	1980	898	
	19		w/o Load Backrest		56	1422	
	20	Collapsed Height			73	1858	
	21	Extended Height	w/o Load Backrest		Lift Height + 17.2	Lift Height + 436	
		3 1 1 1 3 1	w/Load Backrest	ın 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	
<u>0</u>	23	Tiller Arm Ht in Drive Position	1 7 0		31.1/47.5	790/1206	
o	24	Outrigger Height	IVIII I/ IVIAX		4	100	
nsi	25	Lowered Fork Height			2	51	
ne	27			+	32.28	820	
Dimensions	28				36/42/48	914/1067/1219	
-	29		Thickness × Width	in mm	1.5 × 3	38 x 76	
	30		Adjustable Min/Max	in mm	6.57 - 24.8	167-630	
	31			in mm	32.95	837	
	32					Fork Length	
	33	Inside Straddle	Frank		38-50	965-1270	
	34	Overall Width	Front Rear	+	28.03 Inside Straddle + 6.4	712 Inside Straddle + 162	
	35	Fork Carriage Width	near		26.57	675	
	36	_	w/Load below Mast		1.57	40	
	37	Ground Clearance	Center Wheelbase		1.57	40	
	38	Turning Radius			56.73	1446	
	39			in mm	60.28	1536	
ω	40	Travel Speed	w/wo Load		3.11/3.42	5.0/5.5	
Performance	41	Lift Speed	w/wo Load		21.65/35.43	.12/.18	
na	42	Lowering Speed 1	w/wo Load		51.18/49.21	.26/.25	
orr	<u> </u>	Lowering Speed 2	w/wo Load 60 min Pating		19.69/11.81	.10/.06	
erf.	43	Gradeability	w/wo Load, 60 min Rating w/wo Load, 30 min Rating		2.4 4.9	<u>4.5</u> 9.1	
ď	44	Max Gradeability	w/wo Load, 30 min Rating w/wo Load, 5 min Rating		4.9 8.4	9.1 15.7	
	45	Service Brake	THE PARTY OF THE PROPERTY OF THE PARTY OF TH	70		ctric	
			1 - 14/-11		7.28 × 25.55 × 24.13	185 x 649 x 613	
	46	Maximum Battery Box	L×W×H	ın mm	(w/No Clearance)	(w/No Clearance)	
			4x Automotive Starter		24	87	
	47	Battery Voltage (Nominal	2x 12v MF		24	95	
Battery	-,	Capacity 6 Hour Rating)	4x Semi-industrial		24	156	
att	40	Toron of Oncolor Harr	4x 6v MF	V/Ah	24	195	
ä	48	Type of Controller	Drive Automative Starter	lh lee		sistor	
			4x Automotive Starter 2x 12v MF		128	58	
	49	Battery Weight	4x Semi-industrial		132 220	60 100	
			4x 6v MF	lb kg	267	121	
		ı	IN OV IVII	io ng [	201	121	

### **Standard Equipment**

- 1. 24-volt fused electrical system
- 2. MOSFET transistorized traction control system
- 3. Separately excited drive motor (SEM)
- 4. X10® Handle
- 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) Vulkollan drive tire
- 20. Vulkollan 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

### **Optional Equipment**

- 1. Rubber drive tire
- 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

- 7. Maintenance-free, semiindustrial 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 trayRemote raise/lower
  - control Casters
  - Snap-on platform

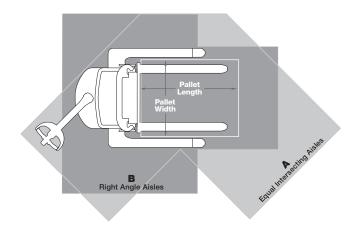
### **Battery and Charger**

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

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

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 built-in battery charger.



### ST 3000 Series

Aisle Planning Guide

ST 3000 - Right Angle and Intersecting Aisle

		Pallet Length in (mm)									
Pallet		30 (	762)	36 (	915)	40 (1	1016)	42 (1	1067)	<b>48</b> (1	220)
Width		Α	В	Α	В	Α	В	Α	В	Α	В
<b>36</b> 915	in mm	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	68.4 1738
<b>40</b> 1016	in mm	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	68.6 1625
<b>42</b> 1067	in mm	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	68.7 1746
<b>48</b> 1220	in mm	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	72.0 1829

Add 6" (152 mm) to all aisle dimensions for maximum maneuverability.

### **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 ST 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**

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

ST 3000 Series

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

#### Mas

High visibility two- and threestage 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 3000 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 commu-

nication. 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 Vulkollan
   10" dia x 3.35" wide
   (254 x 85 mm)
- Load wheels Vulkollan
   4" dia x 2" wide (ST)
   (102 x 51 mm)
- Optional poly casters are 3.5" dia x 2" wide (89 x 51 mm)

#### **Other Options**

- 1. Audible travel alarm
- 2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing 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 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 specifica-

tions 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**

New Bremen, Ohio 45869 USA **Tel** 419-629-2311 **Fax** 419-629-3796

crown.com

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