

**CROWN**

**Specifications**

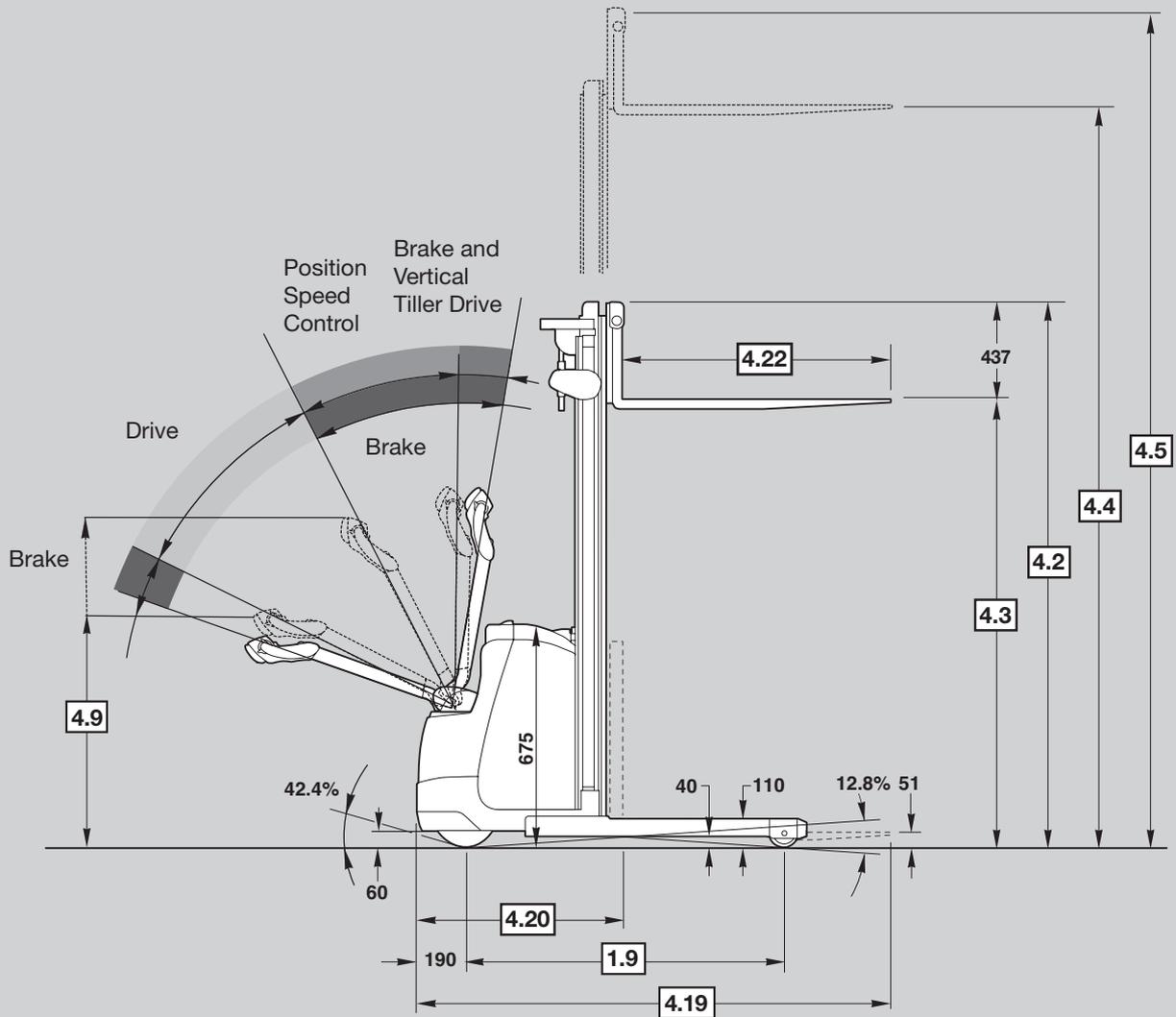
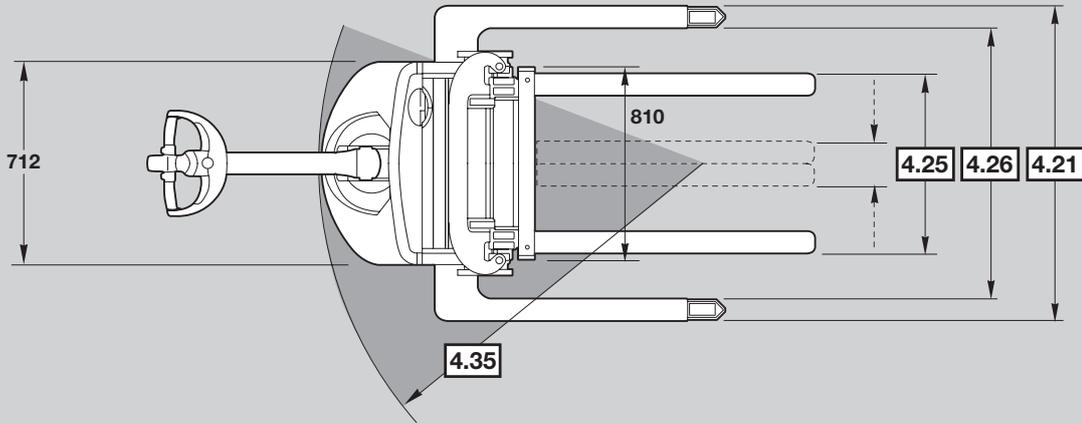
**ST/SX 3200 Series**

Pedestrian Powered  
Stacker

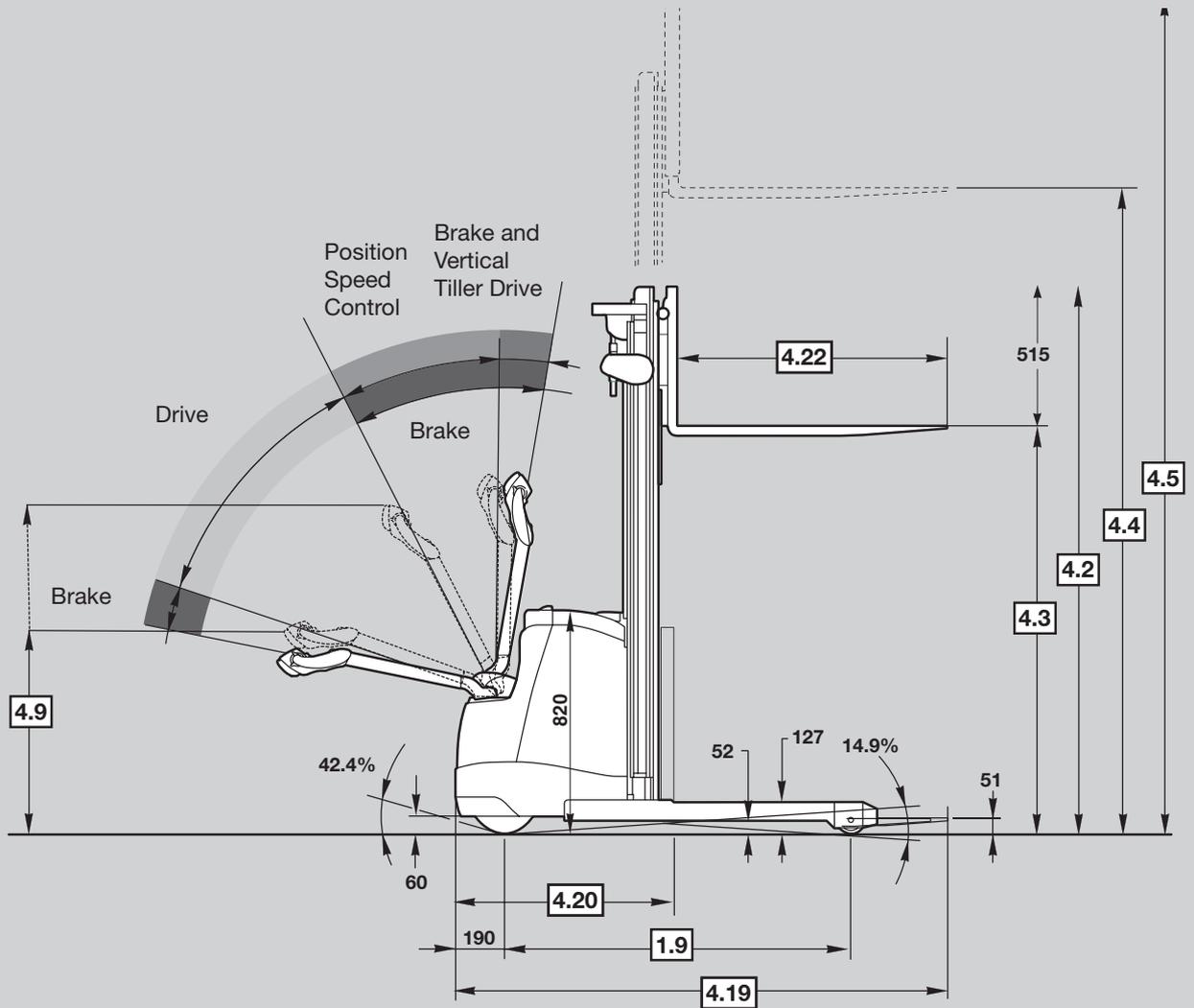
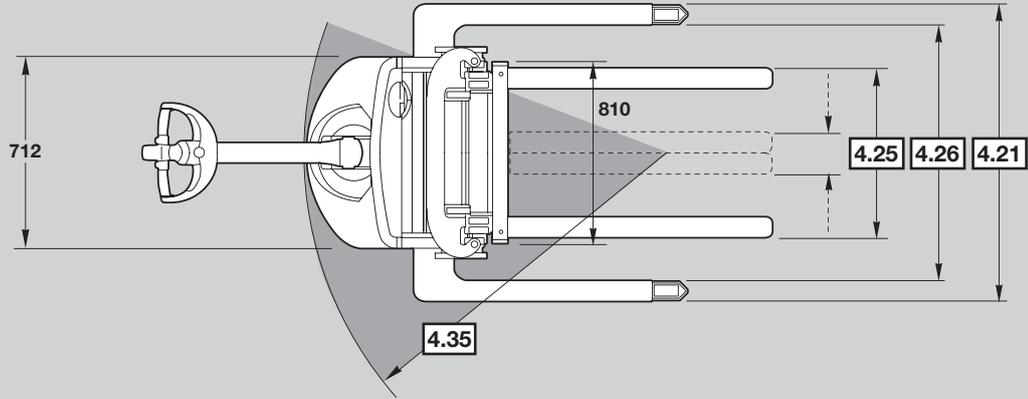
# **ST 3200** **SX 3200** Series



ST / SX 3200



ST / SX 3200





**ST/SX 3200 Series**

**Stacker**

General Information	1.1	<b>Manufacturer</b>				Crown Equipment					
	1.2	<b>Model</b>				ST 3200 1.0	ST 3200 1.2^	SX 3200 1.5			
		<b>Mast Type</b>			mm	see Table					
	1.3	<b>Power</b>				Electric					
	1.4	<b>Operator Type</b>				Walkie					
	1.5	<b>Load Capacity</b>	Max	Q	kg	1000	1200	1500			
	1.6	<b>Load Centre</b>		c	mm	600					
	1.9	<b>Wheelbase</b>		y	mm	1255			1362		
2.1	<b>Weight Less Battery</b>			mm	see Table						
Tyres	3.2	<b>Wheel Size</b>	Front	STD	Vulkollan		mm				
	Front		OPT	Rubber		mm					
	3.3	<b>Wheel Size</b>	Rear (load)		Vulkollan		mm		mm		
	3.4	<b>Additional Wheels</b>	Castor Wheels		Poly		mm				
	3.5	<b>Wheels</b>	Number (x=driven)				1x, 2†/2				
Dimensions	4.2	<b>Mast</b>	Collapsed Height		h <sub>1</sub>	mm	see Table				
	4.3	<b>Free Lift</b>	w/o Load Backrest		h <sub>2</sub>	mm	see Table				
	4.4	<b>Lift Height</b>			h <sub>3</sub>	mm	see Table				
	4.5	<b>Mast</b>	Extended height w.o.lbr.		h <sub>4</sub>	mm	see Table				
	4.9	<b>Tiller Arm Height</b>	In drive position min/max		h <sub>14</sub>	mm	785/1197				
	4.10	<b>Outrigger Height</b>			h <sub>8</sub>	mm	112	127			
	4.15	<b>Lowered Fork Height</b>			h <sub>13</sub>	mm	51				
	4.19	<b>Overall Length</b>			l <sub>1</sub>	mm	Head Length + Fork Length				
	4.20	<b>Head Length</b>			l <sub>2</sub>	mm	see Table				
	4.21	<b>Overall Width</b>	Front			b <sub>1</sub>	mm	712			
			Rear			b <sub>1</sub>	mm	Inside Straddle + 150	Inside Straddle + 160	Inside Straddle + 150	
	4.22	<b>Fork Dimensions</b>			th.w.	mm	38 x 76		38 x 102		
		<b>Fork Length</b>			l		915/1067/1219				
	4.24	<b>Fork Carriage Width</b>			b <sub>3</sub>	mm	675		810		
	4.25	<b>Width Across Forks</b>			b <sub>3</sub>	mm	268 - 610		250/785		
	4.26	<b>Inside Straddle</b>	Infinite adjustment		b <sub>4</sub>	mm	965 - 1270		965 - 1270††		
4.31	<b>Ground Clearance</b>	w/Load below Mast		m <sub>1</sub>	mm	40					
4.32		Centre Wheelbase		m <sub>2</sub>	mm	50	52				
4.33	<b>Working Aisle Width</b>	Intersect at aisle w. std		Ast	mm	see aisle planning guide					
4.34	<b>Working Aisle Width</b>	Staking w. std pallet		Ast	mm	see aisle planning guide					
4.35	<b>Turning Radius</b>			Wa	mm	1446		1553			
5.1	<b>Travel Speed</b>	w/wo Load			km/h	5.9/5.9		5.9/5.7			
5.2	<b>Lift Speed</b>	w/wo Load			m/s	0.12/0.20	0.11/0.17		0.14/0.24		
5.3	<b>Lowering Speed</b>	w/wo Load			m/s	0.22/0.22		0.30/0.26			
	<b>Gradeability</b>	w/wo Load, 30min Rating			%	4.9/9.1		4.4/8.7			
5.8	<b>Max Gradeability</b>	w/wo Load, 5min Rating			%	8.4/15.7		9.5/19.4			
5.10	<b>Service Brake</b>					Electric					
6.1	<b>Traction Motor</b>	60min Rating			kW	1.5					
6.2	<b>Lift Motor</b>				kW	2.2	3.0	3.0			
Battery	6.3	<b>Maximum Battery Box</b>	DIN 43535 / A		lxwxh	mm	185 x 649 x 613			230 x 670 x 600	
	6.4	<b>Battery Voltage</b> (nominal capacity 5 hour rating)	4 x 6v MB Sealed			V/Ah	24/190	-----		-----	
			Industrial Battery			V/Ah	-----	24/150	24/290		
6.5	<b>Battery Weight</b>	4 x 6v MB Sealed			kg	121	-----		-----		
		Industrial Battery			kg	-----	150	163 - 322			
8.1	<b>Drive Unit</b>	Drive				Transistor					

† Castor wheel option on ST3200

†† Fixed outrigger (1220mm) on SX3200TT4860 and SX3200TT5500

^ Not available in Southeast Asia.

**TABLE**

	<b>MAST TYPE</b>		<b>ST 3200</b>			<b>SX 3200</b>					
			TL	TT		TL	TT				
4.4	<b>Lift Height</b>	mm	3220	3900	4250	3220	3900	4250	4860	5500	
4.4a	<b>Capacity at Lift Height**</b>	kg	1000	1000	600	1500**	1350**	900**	1000	650	
4.2	<b>Mast</b>	Collapsed height	mm	2108	1858	1858	2110	1858	1858	2070	2280
4.3	<b>Free Lift</b>	mm	150	1422	1422	150	1348	1348	1330	1740	
4.5	<b>Extended Height</b>	w/o L/Backrest	mm	3655	4335	4685	3730	4410	4760	5370	6010
4.20	<b>Head Length</b>	mm	819	837	837	869*	887*	887*	887	887	
2.1	<b>Weight</b>	Less Battery	kg	824	911	911	986	1076	1110	1138	1163

\*Add 57mm for sideshift option.

\*\*Deduct 136kg for sideshift option.

Note: Sideshift not available for 4860 & 5500mm masts.

**AISLE PLANNING GUIDE**
**ST 3200 - Right Angle and Intersecting Aisle**

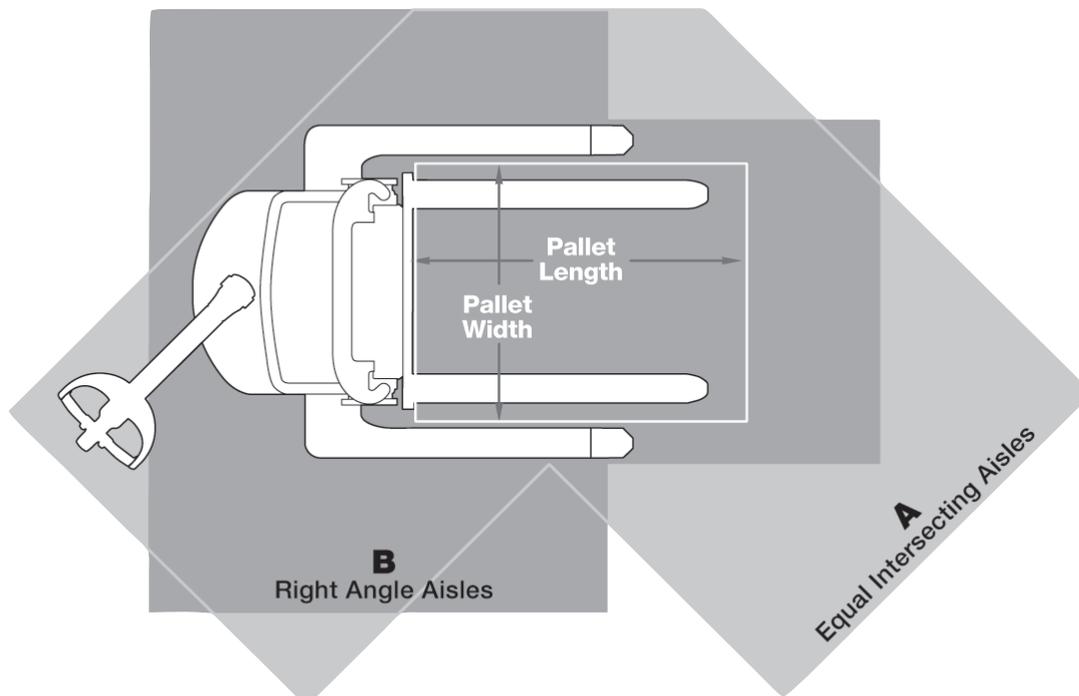
Pallet Width		Pallet Length									
		914		1016		1067		1165		1219	
		A	B	A	B	A	B	A	B	A	B
<b>914</b>	mm	1463	1599	1463	1599	1463	1599	1463	1599	1463	1738
<b>1016</b>	mm	1546	1625	1546	1625	1546	1625	1546	1625	1546	1625
<b>1067</b>	mm	1588	1638	1588	1638	1588	1638	1588	1638	1588	1746
<b>1165</b>	mm	1707	1751	1707	1751	1707	1751	1707	1751	1707	1751
<b>1219</b>	mm	1715	1725	1715	1752	1715	1752	1715	1752	1715	1829

Add 152mm to all aisle dimensions for maximum manoeuvrability.

**SX 3200 - Right Angle and Intersecting Aisle**

Pallet Width		Pallet Length									
		914		1016		1067		1165		1219	
		A	B	A	B	A	B	A	B	A	B
<b>914</b>	mm	1554	1704	1554	1704	1554	1704	1554	1704	1554	1722
<b>1016</b>	mm	1638	1730	1638	1730	1638	1730	1638	1730	1638	1730
<b>1067</b>	mm	1680	1743	1680	1743	1680	1743	1680	1743	1680	1743
<b>1165</b>	mm	1767	1811	1767	1811	1767	1811	1767	1811	1767	1811
<b>1219</b>	mm	1807	1851	1807	1851	1807	1851	1807	1851	1807	1851

Add 152mm to all aisle dimensions for maximum manoeuvrability.  
Add 50mm if sideshift option is used.



### Electric System / Batteries

24-volt electrical system with nominal battery capacities up to 222 Ah.

### Standard Equipment

1. Maintenance free 3-phase (AC) traction
2. e-GEN Braking System offers regenerative and frictionless electric braking. Mechanical braking applies only as parking brake
3. The X10 Control Handle places all truck functions at the operator's fingertips
4. Batteries
  - ST 1.0: 190 Ah maintenance free
  - ST 1.2: 150 Ah wet cell industrial
  - SX: 180 Ah wet industrial; 200 Ah maintenance free
5. SB175 battery connector
6. Onboard 30A solid state charger
7. Drive tyre
  - ST: Rubber
  - SX: Vulkollan
8. Vulkollan Load Wheels
9. Castor Wheels
10. Ramp hold
11. Adjustable outriggers
12. Polycarbonate mast guard
13. Storage tray above battery
14. Battery discharge indicator with lift lockout and integrated hour meter and fault code readout
15. Fork tip indicators
16. Key Switch
17. Rabbit/turtle switch incorporates two levels of programmable travel performance
18. Proportional lifting/lowering
19. Position Speed Control
20. Vertical Tiller Drive

### Optional Equipment

1. Drive tyre
  - ST: Vulkollan and Supertrac
  - SX: Rubber and Supertrac
2. Tandem load wheels
3. Load backrest
  - ST / SX: 832 x 1200 mm
4. Battery options: maintenance free, wet industrial or lithium-ion
5. Battery connector SBE 160 red
6. Freezer conditioning
7. Side shifter (SX)
8. Flashing light
9. Travel alarm
10. Work Assist options
11. Fork length and fork spread options
12. Special paint
13. Infolink Ready
14. Keypad
15. V-Force Lithium Ion Ready

### Electrical System

24-volt fused electrical system with built in 30-amp charger. This premium fan-cooled, solid-state charger is durable and efficient. It has an advanced memory feature to allow for opportunity charging and can be set for either maintenance free or industrial batteries. A retractable power cord is standard.

### Operator Area and Controls

The X10 Control Handle, designed for simultaneous operation of all functions with one hand, improves side-stance operation for maximum visibility in both driving directions. An ergonomic forward/reverse thumb wheel allows for precise manoeuvring. 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.

### Position Speed Control

When operating in tight spaces such as retail stores with narrow aisles or inside lorries and elevators, the operator can move the tiller from the travel zone to the Position Speed Control zone. The travel speed in fork direction will then be automatically reduced to 1.5 km/h without the need to come to a halt and a further command from the operator. This ensures a smooth and productive workflow while avoiding unintentional interruptions.

### Vertical Tiller Drive

The Vertical Tiller Drive function goes one step beyond. When activated, the truck can be moved at up to 1.5 km/h even in the upper braking zone by simply keeping the travel switch pressed in the desired direction. Reducing the turning radius of the truck, the system enables operators to easily move pallets while reducing goods damage cost.

### 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 and the operator leaves the platform or power is disconnected.

### Chassis

All models feature a heavy gauge one-piece welded steel frame backed by a lifetime warranty. Removable steel covers protect all critical system components. The low-profile power unit has been optimised to provide the best fork tip visibility available.

### Safety Regulations

Conforms to APAC safety standards. 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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