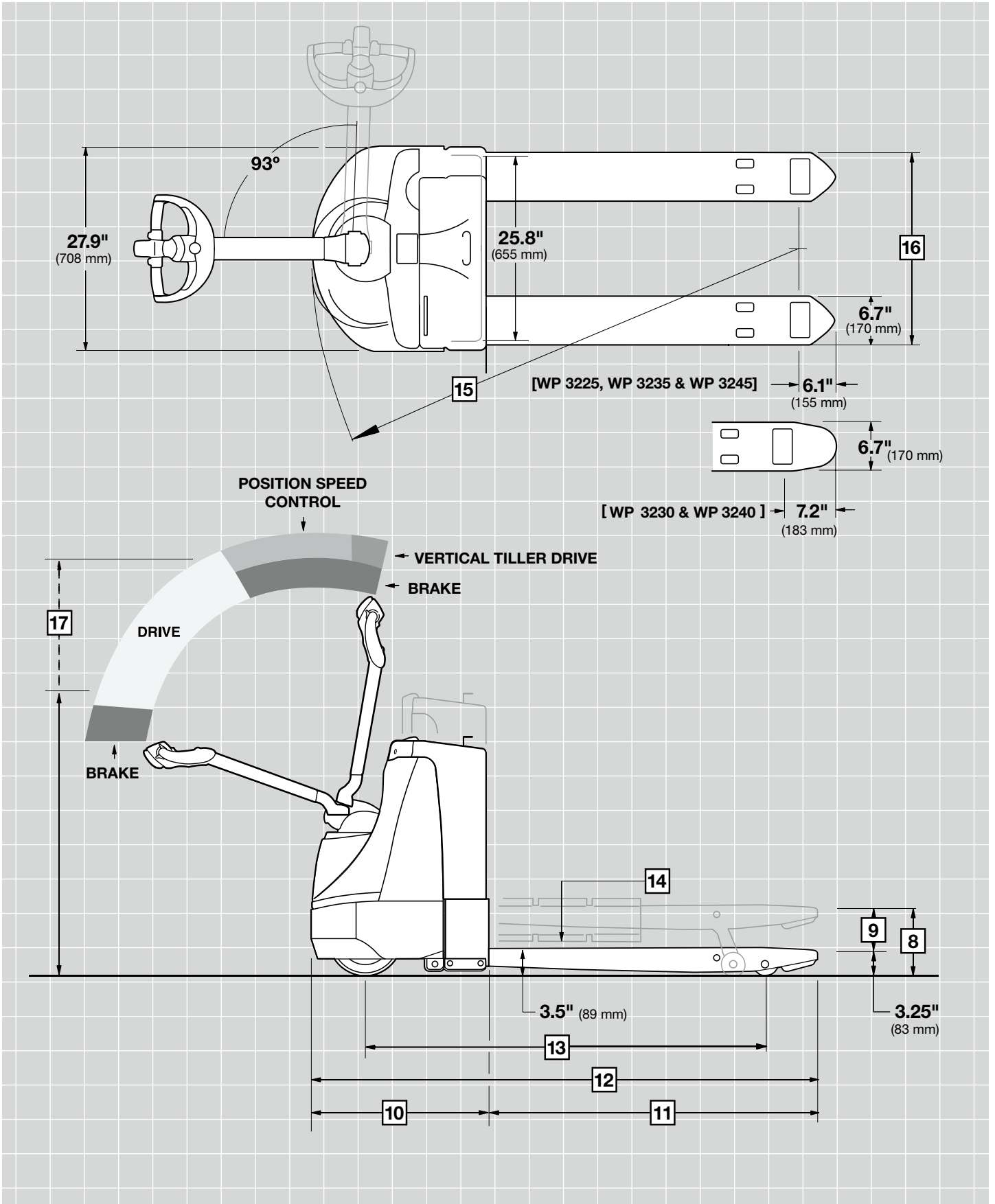


CROWN

WP 3200 SERIES

Specifications
Walkie Pallet Truck





WP 3200 Series

Specifications

			<i>Imperial</i>	<i>Metric</i>	
General	1	Manufacturer	Crown Equipment Corporation		
	2	Model	WP 3225		
	3	Load Capacity	lb kg	4500 2020	
	4	Power	Electric	24 Volts	
	5	Operator Type	Stand-up	Walkie	
Dimensions	8	Lift Height	in mm	8.5 215	
	9	Lift	in mm	5.2 130	
		Battery Compartment	Length	in mm	4.9 125
	10	Head Length	in mm	20.2 513	
	16	Outside Fork Spread	in mm	16.5/18.1/20.5/21.3/26.4 420/460/520/540/670	
	17	Tiller Arm Height in Drive Position	Min/Max	in mm 31.1/47.5 790/1210	
18	Travel Speed	Empty	mph km/h	3.7 5.9	
		Loaded	mph km/h	3.5 5.6	
Forks		Nominal Fork Length	in mm	36/42/48 915/1065/1220	
	11	Actual Fork Length	in mm	33.6/39.7/45.6 855/1010/1160	
	12	Overall Length	in mm	53.8/59.9/65.8 1370/1525/1675	
	13	Wheelbase	Lowered	in mm	40.3/46.4/52.3 1025/1180/1330
			Raised	in mm	37.2/43.3/49.2 945/1100/1250
	14	Grade Clearance	Raised	%	46.3/38.8/33.9
			Gradeability	Loaded	%
15	Turning Radius	Lowered	in mm	47.7/53.8/59.7 1215/1370/1520	
7	Truck Weight*	Less Battery	lb kg	690 314	

			Crown Equipment Corporation		
General	1	Manufacturer	Crown Equipment Corporation		
	2	Model	WP 3230		
	3	Load Capacity	lb kg	4500 2020	
	4	Power	Electric	24 Volts	
	5	Operator Type	Stand-up	Walkie	
Dimensions	8	Lift Height	in mm	9.25 235	
	9	Lift	in mm	6 150	
		Battery Compartment	Length	in mm	7.9 202
	10	Head Length	in mm	23.2 590	
	16	Outside Fork Spread	in mm	16.5/18.1/20.5/21.3/26.4 420/460/520/540/670	
	17	Tiller Arm Height in Drive Position	Min/Max	in mm 31.1/47.5 790/1210	
18	Travel Speed	Empty	mph km/h	3.7 5.9	
		Loaded	mph km/h	3.5 5.6	
Forks		Nominal Fork Length	in mm	36/42/48/54/60/66/72 915/1065/1220/1370/1525/1675/1830	
	11	Actual Fork Length	in mm	35.6/41.7/47.6/53.5/59.6/65.6/71.7 905/1060/1210/1360/1515/1665/1820	
	12	Overall Length	in mm	58.9/65.0/70.9/76.8/82.9/88.8/94.9 1495/1650/1800/1950/2105/2255/2410	
	13	Wheelbase	Lowered	in mm	44.2/50.3/56.2/62.1/68.2/74.1/80.2 1125/1280/1425/1580/1735/1885/2040
			Raised	in mm	39.6/45.7/51.7/57.6/63.7/69.6/75.7 1005/1160/1315/1460/1620/1770/1920
	14	Grade Clearance	Raised	%	52.7/44.5/38.7/35.9/32.5/29.8/27.4
			Gradeability	Loaded	%
15	Turning Radius	Lowered	in mm	51.6/57.7/65.3/69.5/75.6/81.5/87.6 1310/1465/1615/1770/1925/2075/2230	
7	Truck Weight*	Less Battery	lb kg	715 325	

*With 48" (1220 mm) forks

WP 3200 Series

Specifications

			<i>Imperial</i>	<i>Metric</i>
General	1	Manufacturer	Crown Equipment Corporation	
	2	Model	WP 3235	
	3	Load Capacity	lb kg	4500 2020
	4	Power	Electric	24 Volts
	5	Operator Type	Stand-up	Walkie
Dimensions	8	Lift Height	in mm	8.5 215
	9	Lift	in mm	5.2 130
		Battery Compartment	Length in mm	7.9 202
	10	Head Length	in mm	23.2 590
	16	Outside Fork Spread	in mm	16.5/18.1/20.5/21.3/26.4 420/460/520/540/670
	17	Tiller Arm Height in Drive Position	Min/Max in mm	31.1/47.5 790/1210
	18	Travel Speed	Empty mph km/h	3.7 5.9
Loaded mph km/h			3.5 5.6	
Forks		Nominal Fork Length	in mm	36/42/48/54/60/66/72 915/1065/1220/1370/1525/1675/1830
	11	Actual Fork Length	in mm	33.6/39.6/45.6/51.6/57.6/63.6/69.6 855/1010/1160/1310/1465/1615/1770
	12	Overall Length	in mm	56.8/62.9/68.8/74.8/80.8/86.8/92.8 1445/1600/1750/1900/2055/2205/2360
	13	Wheelbase	Lowered in mm	43.3/49.4/55.3/61.3/67.3/73.3/79.3 1100/1255/1405/1560/1710/1860/2015
			Raised in mm	40.2/46.3/52.2/58.2/64.2/70.2/76.2 1020/1175/1325/1480/1630/1785/1935
	14	Grade Clearance	Raised %	45.6/37.4/31.6/30.5/27.7/25.3/23.3
		Gradeability	Loaded %	10
	15	Turning Radius	Lowered in mm	50.7/56.8/62.7/68.7/74.7/80.7/86.7 1290/1445/1595/1745/1900/2050/2205
7	Truck Weight*	Less Battery lb kg	715 325	

			<i>Imperial</i>	<i>Metric</i>
General	1	Manufacturer	Crown Equipment Corporation	
	2	Model	WP 3240	
	3	Load Capacity	lb kg	4500 2020
	4	Power	Electric	24 Volts
	5	Operator Type	Stand-up	Walkie
Dimensions	8	Lift Height	in mm	9.25 235
	9	Lift	in mm	6 150
		Battery Compartment	Length in mm	9.1 232
	10	Head Length	in mm	24.4 620
	16	Outside Fork Spread	in mm	16.5/18.1/20.5/21.3/26.4 420/460/520/540/670
	17	Tiller Arm Height in Drive Position	Min/Max in mm	31.1/47.5 790/1210
	18	Travel Speed	Empty mph km/h	3.7 5.9
Loaded mph km/h			3.5 5.6	
Forks		Nominal Fork Length	in mm	36/42/48/54/60/66/72 915/1065/1220/1370/1525/1675/1830
	11	Actual Fork Length	in mm	35.6/41.7/47.6/53.5/59.6/65.6/71.7 905/1060/1210/1360/1515/1665/1820
	12	Overall Length	in mm	60.0/66.6/72.0/78.0/84.1/90.0/96.1 1525/1680/1830/1980/2135/2285/2440
	13	Wheelbase	Lowered in mm	45.4/51.5/57.4/63.3/69.4/75.3/81.4 1155/1310/1460/1610/1765/1915/2070
			Raised in mm	40.8/46.9/52.8/58.7/64.8/70.7/76.9 1035/1190/1340/1490/1650/1800/1950
	14	Grade Clearance	Raised %	50.9/43.2/37.8/35.2/31.9/29.3/27.0
		Gradeability	Loaded %	10
	15	Turning Radius	Lowered in mm	52.8/58.9/64.8/70.7/76.8/82.7/88.8 1345/1500/1650/1800/1955/2105/2260
7	Truck Weight*	Less Battery lb kg	715 325	

*With 48" (1220 mm) forks

WP 3200 Series

Specifications

			<i>Imperial</i>	<i>Metric</i>
General	1	Manufacturer	Crown Equipment Corporation	
	2	Model	WP 3245	
	3	Load Capacity	lb kg	4500 2020
	4	Power	Electric	24 Volts
	5	Operator Type	Stand-up	Walkie
Dimensions	8	Lift Height	in mm	8.5 215
	9	Lift	in mm	5.2 130
		Battery Compartment	Length in mm	9.1 232
	10	Head Length	in mm	24.4 620
	16	Outside Fork Spread	in mm	16.5/18.1/20.5/21.3/26.4 420/460/520/540/670
	17	Tiller Arm Height in Drive Position	Min/Max in mm	31.1/47.5 790/1210
	18	Travel Speed	Empty mph km/h	3.7 5.9
Loaded mph km/h			3.5 5.6	
Forks		Nominal Fork Length	in mm	36/42/48/54/60/66/72 915/1065/1220/1370/1525/1675/1830
	11	Actual Fork Length	in mm	33.6/39.6/45.6/51.6/57.6/63.6/69.6 855/1010/1160/1310/1465/1615/1770
	12	Overall Length	in mm	58.0/64.1/70.0/76.0/82.0/88.0/94.0 1475/1630/1780/1930/2085/2235/2390
	13	Wheelbase	Lowered in mm	44.5/50.6/56.5/62.5/68.5/74.5/80.5 1130/1285/1435/1590/1740/1890/2045
			Raised in mm	41.4/47.5/53.4/59.4/65.4/71.4/77.4 1050/1205/1355/1510/1660/1815/1965
	14	Grade Clearance	Raised %	43.7/36.0/30.6/29.9/27.2/24.9/23.0
		Gradeability	Loaded %	10
15	Turning Radius	Lowered in mm	51.9/58.0/63.9/69.9/75.9/81.9/87.9 1320/1475/1625/1775/1930/2080/2235	
7	Truck Weight*	Less Battery lb kg	715 325	

*With 48" (1220 mm) forks

Standard Equipment

1. 24-volt fused electrical system
2. 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
10. Display includes hour meter, discharge indicator with lift lockout and fault code readout
11. Ramp hold
12. Heavy-duty drive unit
13. Drive unit enclosed in high ductile strength steel frame
14. Stamped steel power unit cover
15. Safety reversing button
16. Roll formed forks with pull rod height adjustment
17. SB 175 amp gray connector with quick disconnect
18. Two pre-programmed performance levels
19. 10" x 4" (254 mm x 102 mm) wide rubber drive tire
20. 3.25" x 4.5" (83 mm x 114 mm) wide poly load wheels with debris guard
21. Low overall height for fork and load visibility
22. Dual lift cylinders and torsion bar
23. Skid bars
24. Fork tip indicators
25. Horn
26. Key switch

Optional Equipment

1. Maintenance free, wet cell, dry cell, or Thin Plate Pure Lead (TPPL) battery packages
2. V-Force® Lithium-Ion Energy Storage System (ESS)
3. Battery straps
4. 30 amp fully automatic on-board charger for lead acid batteries
5. SB 175 red battery connector
6. Spring loaded casters
7. Drive tire options
8. Travel alarm (Forward, Reverse or Both)

9. Freezer conditioning
10. 48" (1220 mm), 60" (1525 mm) or 72" (1830 mm) high load backrest
11. Keyless on-off toggle in lieu of key switch
12. Drive/tow switch
13. Work Assist® Accessories
14. InfoLink® Ready
15. Handset analyzer for calibration or fault analyzing
16. Static strap

Battery and Charger

Three battery compartments are available to suit your duty cycle.

The 4.9" (125 mm) battery compartment (WP 3225) accommodates TPPL batteries or the V-Force Lithium-Ion and includes an extension cord holder.

An overdischarge protection device, which monitors State of Charge (SOC) and notifies the operator via audible and visual alarms when the battery should be charged, is included with the TPPL battery pack.

The 7.9" (202 mm) battery compartment (WP 3230/WP 3235) is designed for lead-acid and V-Force Lithium-Ion battery packages and includes an extension cord holder. V-Force Lithium-Ion packages also include an integrated charger.

An optional swing-out battery tree is available for the wet cell and dry cell battery packs. The optional nylon battery straps secure maintenance-free, wet cell and dry cell batteries to the stand to minimize vibration in rough floor or over dock applications, reducing potential damage to the batteries and the stand.

The 9.1" (232 mm) battery compartment (WP 3240/WP 3245) will accept an industrial storage battery up to 330 amp hour capacity.

With select battery package options, an on-board sealed charger is available as an option on all models. This premium solid-state charger is durable and efficient. The sealed unit eliminates problems or failures related to contamination or moisture. It has an advanced memory feature to allow for opportunity charging. A 10' extension cord is included with any truck equipped with an on-board battery charger.

Operator Controls

The WP's robust X10® control handle is designed to allow for an optimum turning radius with low steer effort. All control buttons can be operated with either hand and can be accessed with minimum hand and wrist movement. The horn buttons are integrated in the hand grips. An ergonomic forward/reverse thumb wheel allows for precise maneuvering. The X10 handle's IP67 Ingress Protection rating ensures the handle is dust-tight and protected against the harmful ingress of water as described in the IP code. A rabbit/turtle switch allows operators to select the maximum travel speed in order to match the operating conditions. The e-GEN braking system is activated when the forward/reverse thumb wheel is returned to neutral, during plugging or whenever the tiller is positioned in the upper or lower braking position. Brake rate is adjustable with handset.

WP 3200 Maneuverability

When maneuvering a load, the position speed control enables operators to move the handle in near vertical position while engaging traction at creep speed. For operating in tight spaces with the handle completely vertical, the vertical tiller drive function allows for fine-tuned positioning.

Performance

The WP 3200 benefits from Crown's design and engineering excellence.

The transistor control module works in conjunction with the AC drive motor to provide responsive acceleration and precise control. The excellent acceleration enhances efficient pallet entry and exit to increase productivity. 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 optimum travel and lift speeds.

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.

e-GEN braking is activated under a downhill condition, during plugging or when the directional control is returned to neutral. "Regen" reduces heat build-up in the motor.

A ramp hold feature activates e-GEN braking to minimize the possibility of unexpected reverse travel on an incline when no travel command is provided.

175-amp battery connector with standard disconnect handle.

Hydraulic System

Heavy-duty 4" (102 mm) diameter hydraulic motor with integral pump and reservoir for maximum efficiency and durability.

Twin, hard-chromed lift cylinders provide improved load stability. Additionally, smaller twin lift cylinders reduce truck length, improving maneuverability.

Hydraulic lines, fittings and elbow connections are minimized to reduce heat from hydraulic oil flow and improve efficiency.

At full lift, a top of stroke cutout switch shuts the lift motor off, which saves energy and prevents motor overheating.

The totally enclosed system is protected by pressure, suction and return line filtration. A convenient fill plug allows for easy fluid level checks.

Drive Unit and Brakes

Crown manufactured drive unit is built to exacting tolerances for low noise emission. A rugged helical gear set delivers trouble free operation and long life.

Drive unit is equipped with an electromagnetic parking brake that is spring applied and electrically released. The park brake is only activated when the thumb wheel is returned to neutral and no tire movement is sensed, so rotor and disc life is extended. Park brake components are easily accessed for inspection and replacement.

The e-GEN braking system utilizes the controller and AC motor to deliver the optimum level of braking based on inputs.

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

Forks

The WP 3200 has two fork styles to suit the application.

The Crown “profiled fork” provides 5.26" (130 mm) of lift and offers tapered fork tips with shorter lengths and wheelbase to improve the turning radius and facilitate load handling in tighter areas. The fork tips are angled down so initial entry is improved.

The standard fork design has 6" (150 mm) of lift with a conventional fork tip. Both fork styles are available with 16.5", 18", 20.5", 22" or 27" (420 mm, 460 mm, 520 mm, 560 mm, or 685 mm) fork spreads.

All pivot points have Teflon-impregnated, bronze, steel-backed bushings. In addition, each pivot point is provided with a grease fitting to flush out dirt and moisture, reducing downtime and providing increased service life.

Serviceability

One piece steel power unit cover is removed easily for access to all major components.

Fork adjustment is done easily using the threaded pull rod.

Location of the park brake simplifies inspection and component replacement.

The AC drive motor is brushless so inspection and replacement of brushes is eliminated.

A CAN communication link between the controller, control handle and display greatly simplifies wiring while improving diagnostics.

Color-coded wiring, a display with fault code readout and a controller with visible LED flashes for fault communication speeds troubleshooting. Optional plug-in analyzer for servicing and programming capability.

Control handle switch cap is easily removed to expose components.

InfoPoint® allows your technician to troubleshoot without complicated schematics, wiring diagrams or cumbersome service manuals for over 95 percent of your repairs. Simplicity is complete with InfoPoint® Quick Reference Guide, color component maps and “Information nuggets” located on the truck.

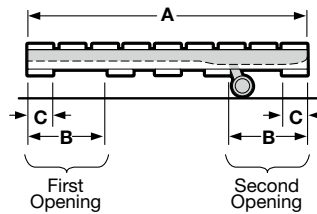
Wheels and Tires

Drive tire - solid rubber
10" dia x 4" wide x 6.5" hub
(254 mm dia x 102 mm wide x 165 mm hub)

Load wheels - poly
3.25" dia x 4.5" wide
(83 mm dia x 114 mm wide)

Optional casters are
3.5" dia x 2" wide
(90 mm dia x 51 mm wide)

Pallet Planning Guide



On WP 3200 models the load wheel will drop into the second opening of the pallet. When “A” dimension equals nominal fork length, “C” dimension is 6" (150 mm) maximum and “B” is 14" (355 mm) minimum.

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 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.

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Because Crown is continually improving its products, specifications are subject to change without notice.

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SF14424 Rev. 08-21
Printed in U.S.A.