

**CROWN**

**Specifications**

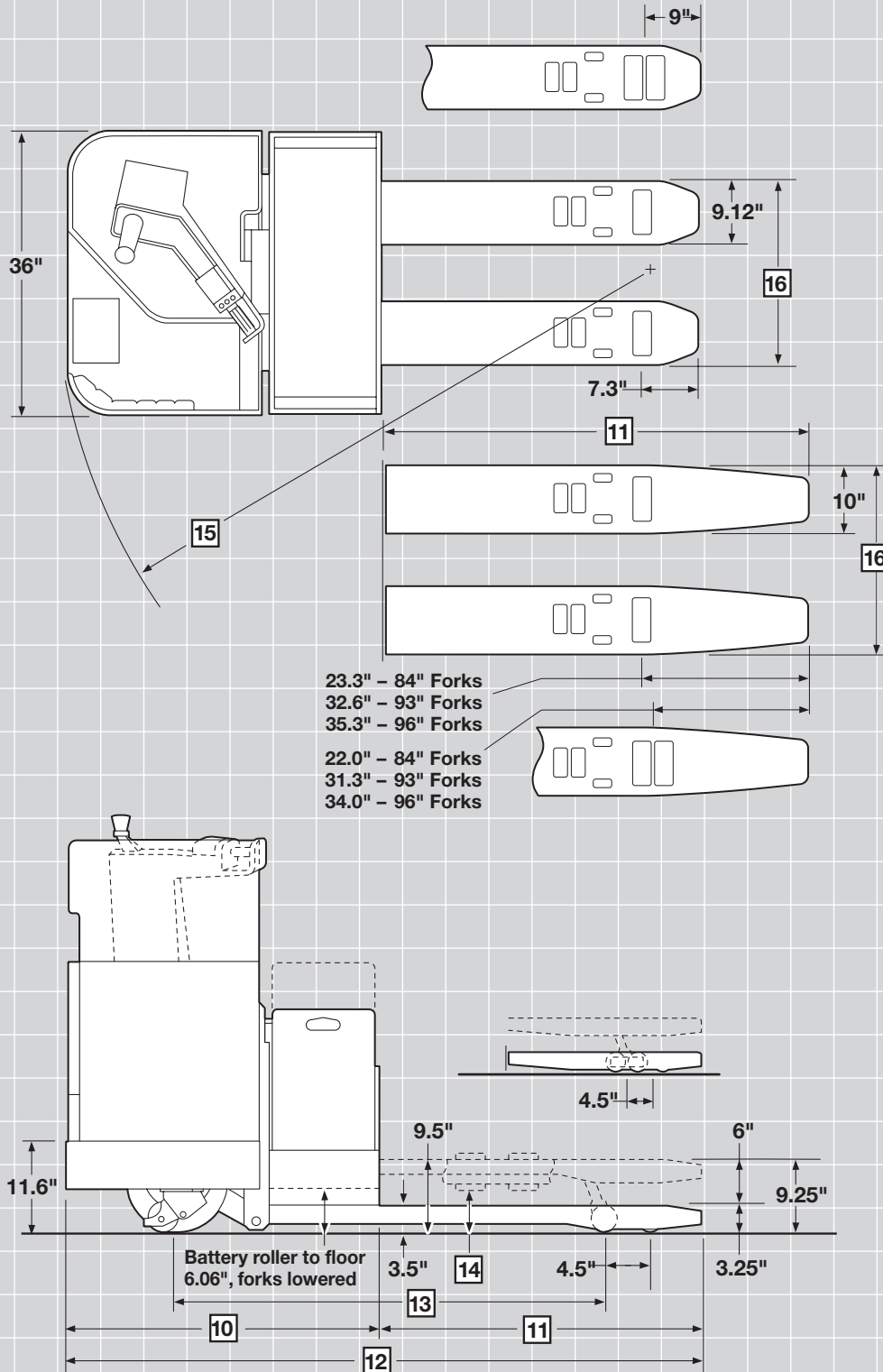
**PR 3000 Series**

Rider Pallet  
Truck

# PR 3000

# Series





General Info	1	<b>Manufacturer</b>		<b>Crown Equipment</b>	<b>Crown Equipment</b>	
	2	<b>Model</b>		PR 3020	PR 3040	
	3	<b>Load Capacity</b>	lb	6000/8000	6000/8000	
	4	<b>Power</b>	Electric	24 Volts	24 Volts	
	5	<b>Operator Type</b>	Stand-up	Rider	Rider	
Dimensions	8	<b>Lift Height</b>	in	9.25	9.25	
	9	<b>Lift</b>	in	6"	6"	
	10	<b>Head Length</b>	in	39.9	39.9	
	16	<b>Outside Fork Spread</b>	Standard Tip	in	22/27	22/27
Extended Tip			in	23/28	23/28	
Performance	17	<b>Speed Travel</b>	Empty	mph	6.1	7.5*
			4000 lb	mph	4.7	6.1*
			6000 lb	mph	4.5	5.7*
			8000 lb	mph	4.3	5.3*

\*Speeds listed are power unit first direction of travel. Fork first travel on PR 3040 are the same as PR 3020.

Forks	<b>PR 3000 Series</b>		<b>Standard Tip Forks</b>						<b>Extended Tip Forks</b>			
		<b>Nominal Fork Length</b>	in	36	42	48	54	60	96	84	93	96
	11	<b>Actual Fork Length</b>	in	35.75	41.75	47.75	53.75	59.75	95.75	83.75	93	95.75
	12	<b>Overall Length</b>	in	75.65	81.65	87.65	93.65	99.65	135.65	123.65	132.90	135.65
	13	<b>Wheelbase</b>	in	49.62	55.62	61.62	67.62	73.62	109.62	81.62	81.62	81.62
	14	<b>Grade Clearance</b>	%	31	28	26	24	22	15	20	20	20
	15	<b>Turning Radius</b>	in	69.62	75.62	81.62	87.62	93.62	129.62	101.32	101.32	101.32
7	<b>Truck Weight</b>	6000 lb	lb	1738	1754	1770	1786	1802	1952	1885	1966	1981
		8000 lb	lb	1757	1781	1805	1829	1853	2017	1945	2026	2041

Wheels and Tires	Model		<b>PR 3020-60</b>	<b>PR 3020-80</b>	<b>PR 3040-60</b>	<b>PR 3040-80</b>	
	Drive Tire	in	13.5 x 5.5 x 8 (r)	13 x 4.5 x 8 (p)	13 x 4.5 x 8 (p)	13 x 4.5 x 8 (p)	
	Casters	in	2 - 4 x 2.5 (p)	2 - 4 x 2.5 (p)	2 - 4 x 2.5 (p)	2 - 4 x 2.5 (p)	
	Load Wheels	≤ 60"		4 - 3.25 x 3.25 (-35)	2 - 3.25 x 6.5 (-35)	2 - 3.25 x 6.5 (-35)	2 - 3.25 x 6.5 (-35)
		> 60"		2 - 3.25 x 6.50 (-35)	2 - 3.25 x 6.5 (-35)	2 - 3.25 x 6.5 (-35)	2 - 3.25 x 6.5 (-35)
	-10 Low rolling resistance, cut/tear resistance. Docks, rough floors, floor debris and traction.						
	-30 Moderate cut/tear resistance, high capacity. High capacity transport. Not for dock use.						
-35 Highest cut/tear resistance offered. Extremely high capacity, low rolling resistance. Docks, rough floors and floor debris.							
-40 Combines good cut/tear resistance and very high capacity. Use where nothing else works.							

(r) = rubber, (p) = poly, ≤ = less than or equal to, > = greater than

PR 3000 Series

Technical Information

**Maximum Battery Size**

13.19" wide x 31.12" long x 31.62" high

**Batteries**

24 volt - 750 amp hour - 15.2 KwH Min / Max weight 975 / 1500 lb

**Standard Equipment**

- 24-volt fused electrical system.
- Sevcon transistor on PR 3020-60 / 80 and PR 3040-60 / 80.
- Power steering.
- Crown standard shim-free caster.
- Side stance compartment.
- Full function raise, lower, travel and horn control.

- Padded, tilted floorboard.
- Padded backrest.
- Padded knee cushion.
- Polyurethane load wheels.
- 175 amp battery connector.
- Key switch.
- Lift-off left and right battery retainers.

**Optional Equipment**

- Curtis transistor available on all models.
- Curtis Unigage (discharge indicator with lift lockout and hour meter)
- Discharge indicator.
- Hour meter.
- 48", 60" or 72" high load hinged, lift-off or bolt-on backrest.

- Storage module.
- Quick adjustment caster.
- Torsion bar with quick adjustment caster package.
- Battery compartment rollers.
- Battery retainer interlock switch.
- Drive tire and load wheel options.
- Cold and corrosion conditioning.
- Special color paint.
- Skid adapter.

**Operator Area and Controls**

The PR 3000 Series incorporates an operator compartment to increase comfort and productivity. The side stance position provides the operator with maximum visibility. The compartment cradles the operator with a wrap-around chassis while the tilted floorboard allows him to lean naturally against a padded backrest.

The PR has a left hand steer tiller with full time power steering. Full function control is provided for the right hand to control travel direction and speed, raise, lower and horn.

### Electrical System

Heavy duty 24-volt electrical system for demanding warehouse, dock and transport applications. Crown manufactured series wound, high torque drive motor is application designed for reliability and ease of service. Sevcon transistor control is standard on all models. Curtis is optional. Transistor control has many benefits; maximum energy efficiency, reduced maintenance, and infinite speed control. Crown enhancements include a 400 amp rating, bypass contactor for heavy loading ramping applications, arcless contactor operation, ramp start, and a sealed enclosure that protects the control from water, contaminants, etc.

### Hydraulics

A heavy-duty pump, motor, reservoir and control are assembled into one unit. A centrally located lift cylinder, mounted vertically, is equipped with long life polyurethane packing. A pressure compensating flow control valve is an integral part of the valve block and regulates maximum lowering speed. Over-load valve protects hydraulic components.

### Drive Unit

Crown manufactured gears are hard finished and dual machined for high quality. All gear drive from drive motor to drive wheel axle. Drive tire axle is mounted in the drive unit on both sides for maximum strength in rough floor or docking applications. Drive unit is top and bottom mounted. Top mount is a large, tapered roller bearing for vertical or horizontal forces. Bottom mount has four shock mounted rollers on drive unit running in a hardened steel roller race. Gear train runs in oil-filled, sealed housing.

### Caster System

Standard on the PR 3000 Series is the Crown standard shim-free caster. Quick adjustment casters are available and adjust quickly to enable braking, traction, steer effort and stability to be "balanced" based on your specific application. This system can also increase drive tire life by as much as 60 percent by permitting more tire wear. The optional torsion bar suspension is available to maximize stability on tall, unwieldy and less stable loads.

### Fork Assembly

Fork width - 9.12" on standard-tip fork models, 10" on extended-tip fork models. Fork spread - 22" and 27" on standard-tip models. 23" - 26" spread available in one inch increments. 23" and 28" standard on extended-tip models. Fork spreads from 24"-27" available in one-inch increments. Fork lengths - 36", 42", 48", 54", 60", 96" with standard-tip; 84", 93", and 96" forks available with extended-tip design for shorter wheelbase.

To facilitate pallet entry/exit Crown has engineered several features into their fork assembly. Standard-tip forks have pallet entry rollers to lift fork over bottom board of pallet. Rollers are made of high molecular weight polyethylene with .75" axle and roll pin.

Extended-tip fork design has totally enclosed tip with full length convex bottom surface creating an entry ramp. Ramp design helps fork glide over bottom boards of pallet and keeps welded edges from touching boards of pallet.

Abrasion resistant steel entry/exit slides on both sides of each fork which have convex bottom surfaces to prevent snagging as forks move over bottom boards of pallet. One piece design with radial edges are welded away from contact point of slide.

Exit roller design prevents load wheel from dropping after crossing bottom board. The 3" wide, steel exit roller is positioned directly behind the load wheel to keep the fork rolling. Entry/exit slide design also assists in trouble free pallet entry/exit.

Fork adjustability is done at the toe with no need to remove a cover plate. Fork heel height adjustment is done quickly without removing battery. Quick and easy fork adjustment promotes servicing of fork assembly to keep pallet entry/exit productive.

Pull rod design incorporates a replaceable "tenon" design for fast servicing of pull rod while still in the truck. Pull rod damage due to impact will cause the replaceable "tenon" to bend, not the entire pull rod.

### Power Unit Structure

Doors are heavy steel. Access doors swing wide for good access. Heavy steel skirt surrounds entire area.

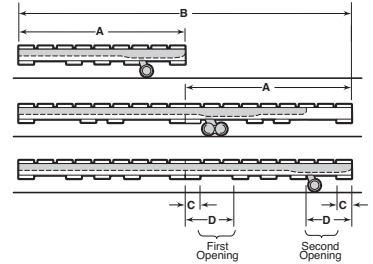
### Brake

Internal expanding mechanical brake with fin-cooled 6" drum. Braking on PR is controlled by position of deadman-type brake pedal on operator platform. Pedal cuts off power and activates brake when released.

### Pallet Planning Guide

On standard-tip fork models, the load wheel will drop in the second opening of the pallet when "A" or "B" dimension equals the nominal fork length. On extended-tip fork models, the load wheel will drop in the first opening of the second pallet. On models with a single load wheel, the "C" dimension should be 6" maximum and the "D" dimension should be 14" minimum. On models with tandem load wheels, the "C" dimension

should be 6" maximum and the "D" dimension should be 17" minimum. Customers that need tandem load wheel trucks, but use pallets with smaller openings, may be accommodated if the maximum lift height of the truck is reduced. Contact your Crown dealer for details.



### 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.

*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.*

# CROWN

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