

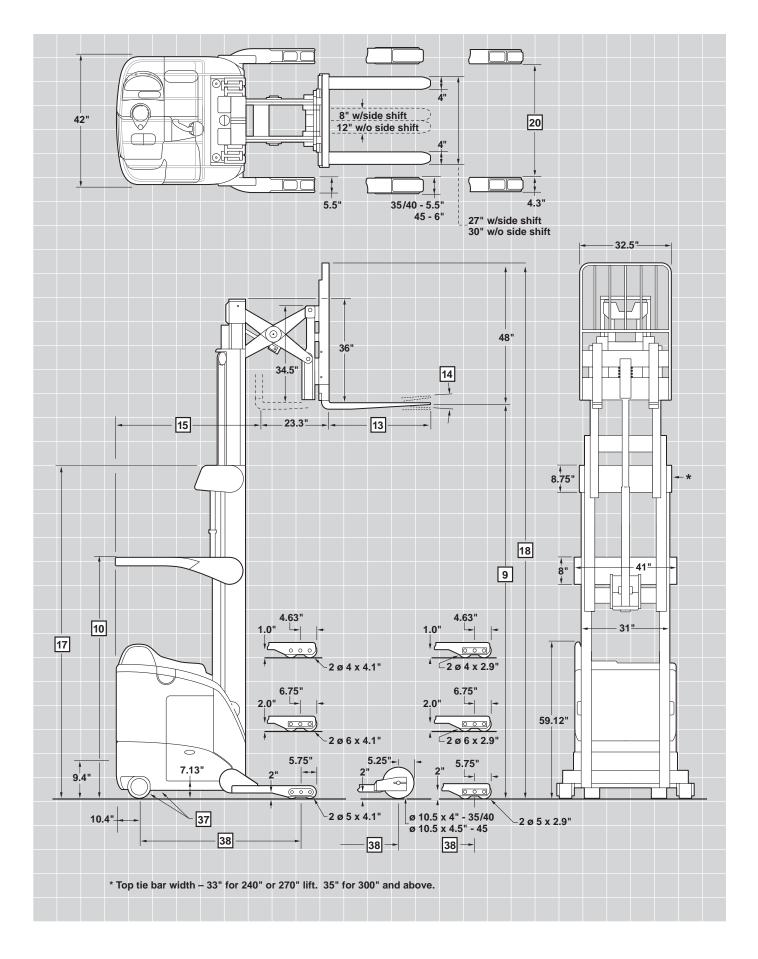
RR 5000 Series



specifications



RR 5000 Series narrow aisle reach truck



RR 5000 Series

Specifications

Ę	1	Manufacturer				Crown Equipme	ent Corporation			
General Information	2	Model			RR 5010-35	RR 5010-40	RR 5020-35	RR 5020-45		
Ĩ	3	Load Capacity*	Мах	lb	3500	4000	3500	4500		
G	4		Fork Face to Load CG	in	24	24	24	24		
Ē	5	Power			24 Volts	24 Volts	36 Volts	36 Volts		
ral	6	Operator Type	Reach		Stand	Stand	Stand	Stand		
ne	7		Load/Caster/Drive				oly/Poly			
ß	8		Load/Power Unit		4/2 (1x)					
	Ū	Mast Type	Hi-Visibility		TT					
	9	Lift Height		in			st Chart			
	10			in	See Mast Chart					
	13	Forks	Standard L x W x T	in	36 x 4 x 1.75					
			Optional Lengths	in		30, 39, 4				
su	14	Carriage	Tilt F°/B°	degree	3/4					
sio	15	Headlength**	Comp't "A"	in	47.16	na	47.16	na		
en		g	Comp't "B"	in	49.28	49.28	49.28	na		
Dimensions			Comp't "C"	in	51.28	51.28	51.28	52.91		
			Comp't "D"	in	na	na	na	54.66		
			Comp't "E"	in	na	na	na	57.28		
	17	Overall Collapsed Height	00mp t 2	in	The second secon	See Mast Chart				
i.	18			in	See Mast Chart					
	20	3	In 1" increments	in			- 50			
	24	Speed Travel	Power Unit First (E/L)	mph	6.3/6.3	6.3/6.3	7.2/7.2	7.2/7.2		
		•	Forks First (E/L)	mph	5.7/5.7	5.7/5.7	5.7/5.7	5.7/5.7		
ğ	24a	Speed Travel with	Power Unit First (E/L)	mph	na	na	7.8/7.2	7.8/7.2		
nai		Productivity Package	Forks First (E/L)	mph	na	na	6.5/5.7	6.5/5.7		
Performance	25	Speed Lift	Empty/Loaded	fpm	52/37	52/33	122/75	118/65		
	26	Speed Lower	Empty/Loaded	fpm	85/90	85/90	85/90	85/90		
	26a	Speed Lower with	Empty/Loaded	fpm	na	na	110/90	110/90		
		Productivity Package	Empty/Loaded	ipin	IId	lid	110/90	110/90		
	37	Tires	Size - Drive/Caster	in	13 x 5.5/8 x 4					
	38	Wheelbase (Standard Wheel)	Comp't "A"	in	52.12	na	52.12	na		
			Comp't "B"	in	54.24	54.24	54.24	na		
			Comp't "C"	in	56.24	56.24	56.24	59.57		
sis			Comp't "D"	in	na	na	na	61.32		
Chassis			Comp't "E"	in	na	na	na	63.95		
с С	39	Suspension	Drive		Articulated					
			Caster		Articulated, Swivel					
	42	Brakes	Drive		Elec Release/Mech Applied					
			Caster	None						
			Parking				Mech Applied			
		Battery Removal			Both Sides					
	45				Lead Acid					
	46	Min Weight/Max Amp	Comp't "A"	lb/amp	1300/1085	na	1300/620	na		
Battery			Comp't "B"	lb/amp	1600/1085	1600/1085	1600/775	na		
			Comp't "C"	lb/amp	1880/1020	1880/1020	1880/930	2000/930		
			Comp't "D"	lb/amp	na	na	na	2280/1085		
			Comp't "E"	lb/amp	na	na	na	2600/1240		
		Max Battery Size	Comp't "A"	in	12.19x38.38x31	na	12.19x38.38x31	na		
			Comp't "B"	in	14.25x38.38x31	14.25x38.38x31		na		
			Comp't "C"	in	16.25x38.38x31	16.25x38.38x31				
			Comp't "D"	in	na	na	na	18.00x38.69x31		
			Comp't "E"	in	na	na	na	20.75x38.69x31		

* Contact factory. Capacity may be subject to derating at height. **Add 2" with optional sideshift.

Specifications RR 5000 Series

Models RR 5010-35, 5010-40, 5020-35 and 5020-45 TT									
Mast	9	Lift Height (RR 5010-35 and -40, 270" Max)			198"	210"	240"	270"	300"
		Free Lift*			41	47	59	71	83
	10	Guard Height			89	95	95	95	95
	17	Overall Collapsed Height			89	95	107	119	131
	18	Overall Extended Height*			246	258	288	318	348
		Minimum Straddle OD			42	42	42	42	42
		Truck Weight w/o Battery	nent						
		RR 5010-35	A	lb	5284	5370	na	na	na
		RR 5010-40**	В	lb	5330	5416	5675	na	na
L			С	lb	5374	5460	5719	5962	na
Weight			A	lb	5362	5448	na	na	na
Me	RR 5020-35		В	lb	5408	5494	5753	na	na
			С	lb	5452	5538	5797	6040	6212
		RR 5020-45	С	lb	5836	5945	6258	6548	7055
			D	lb	5878	5987	6300	6590	7097
			E	lb	5933	6042	6355	6645	7152

Model RR 5020-45					TT				
st	9	Lift Height			321"	341"	366"	400"	
		Free Lift*			92	101	112	124	
	10	Guard Height			95	95	95	95	
Mast	17	Overall Collapsed Height			140	149	160	172	
	18	Overall Extended Height*			369	389	414	448	
		Minimum Straddle OD			42	49	50	53	
L I		Truck Weight w/o Battery Battery Compartment							
Weight			С	lb	7231	na	na	na	
We		RR 5020-45	D	lb	7273	7524	na	na	
			E	lb	7328	7579	7795	8029	

* With load backrest.
 ** RR 5010-40 Not available with "A" battery compartment.
 Above 321" 6" high load wheel standard.

RR 5000 Series

Technical Information

Capacity

Model RR 5010-35: 3500 lb at 24" load center, 24 volt.

Model RR 5010-40: 4000 lb at 24" load center, 24 volt.

Model RR 5020-35: 3500 lb at 24" load center, 36 volt.

Model RR 5020-45: 4500 lb at 24" load center, 36 volt.

Batteries

Battery removal from left or right side of truck. Standard battery compartment rollers for extraction with mechanized equipment.

Standard Equipment

- 1. Crown Integrated Control System with Access 1-2-3 diagnostics
- 2. 24 or 36 volt system
- . Work Relief Center
- Variable side stanceFlexible five-point
- positioningBack support with integral
- hip support • Arm/elbow support padding
- Padded compartment interior walls
- Operator console with work surface and storage
- Lower storage compartment
- Suspended floor
- 270 square inch floor area
 Non-skid rubber floor mat
- •Console light
 4. "Multi-task" controller,
- urethane covered
- 5. Urethane covered steer tiller
- Hydrostatic power steering
 Standard display
 - Standard display
 4 character message
 - mode, 3 button access
 Access 1-2-3 diagnostics with real time troubleshooting diagnostics
 - Four hour meters
 - · Fuel gauge with lift interrupt
 - PIN security
- 8. High visibility power unit
- 9. High visibility mast
- 10. Overhead guard
- 11. 48" high load backrest
- 12. Tilting fork carriage
- Tandem articulating load wheels
- 14. Silent mast staging system
- 15. Quiet lift pumps
- High speed lift cut out 12" from maximum lift
- 17. Crown manufactured drive and lift motors
- Offset articulated drive axle with 190° steer arc
- 19. Key switch
- 20 Horn
- 21. Emergency power disconnect
- 22. 350 amp battery connector
- 23. Large diameter battery rollers
- 24. Color coded wiring

Optional Equipment

- Mast lift heights to 400"
 Enhanced Display Panel with 16 character alphanumeric message center, six button direct access
- 3. Capacity data monitor
- Motor brush wear and overtemp indicator, (requires enhanced display)
- 5. Forward steering
- Lift limit with or without override, (requires height encoder)
- 7. Battery retainer with interlock
- 8. 36" and 42" high load backrests
- 9. Work lights
- 10. Fan
- 11. Productivity package (RR 5020 only)
- 12. Corrosion/freezer conditioning
- 13. Load wheel sizes and
- compounds 14. Removable outrigger tips
- 15. Mesh screen mast guard
- 16. Overhead guard mesh
- Overhead guard mesh
 Crown manufactured sideshifter. 2" or 4" each
- way. 18. Polished and tapered forks
- 19. Fork lengths
- 20. Keyless on/off switch

20. Reyless On/On Switc

Work Relief Center

Soft, rounded surfaces make compartment interior more comfortable. Streamlined exterior smooths entry / exit for the operator. A lower floor height, (9.4"), first greets the operator. A new, 270 square inch floor and new patented, suspended floorboard provide comfortable footing.

A new brake pedal design allows variable side stance positions for the operator. The operator can change positions to increase comfort and productivity.

Five-point positioning provides better control and stability, starting with the right hand on the multi-task controller and the left hand on the steer tiller. Left foot on the brake pedal and the right foot on the power on pedal. The operator's back is naturally fitted against the wrap around support cushion.

The new multi-task controller naturally bridges Crown's current and past designs. Intuitive operation is increased, reducing the learning curve. Blending of hydraulic control functions and traction can improve productivity. Control handle activation forces are reduced. Soft grip steer tiller with hydrostatic steering reduces operator fatigue.

Operator visibility is improved with:

- · Low profile power unit
- · High visibility mast
- Angled mast cross bracing
- Angled overhead guard cross bars
- Variable side stance

Superior Thermal Management is the result of several unique design features: reduced heat generating components, positioning of heat generating components away from the compartment, padding to insulate the compartment from heat, and improved air paths through the truck.

Clipboard surface and console storage pockets are standard. A large storage area is located below the operator backrest.

Technical Information

Crown Integrated Control System with Access 1-2-3 Diagnostics

Crown's Integrated Control System provides unmatched truck control for all primary truck systems:

- Traction control
- Hydraulic pump control
- · Hydrostatic steering
- Braking
- Display

The closed loop traction system provides high available torque utilizing a separately excited Crown manufactured motor. Acceleration is dramatically improved, increasing productivity. On ramps or when interfacing with push back racking, "Truck hold" feature electronically brakes the truck when the handle is in neutral. Operator does not have to release the brake pedal, improving comfort and control in these applications. Selected travel speed remains constant regardless of surfaces, load weight or grades. Less throttling of control handle means better truck control and less fatigue to the operator.

Separately excited motor technology eliminates forward and reverse contactors. Regenerative motor braking helps save energy, increases motor brush life and decreases motor temperature. Cooling fins on the brake rotor force cool air down through the drive motor.

Crown's **Access 1-2-3 Diagnostics** consists of 3 modules. Each module is extensively tested, enclosed for protection and designed to work in a variety of applications.

Access 1-2-3 is the most comprehensive fault detection system in the industry. The Service Technician can actively view inputs and outputs during truck operation.

Access 1 Module

This is the display panel, (Standard or Enhanced), and the first point of troubleshooting. No tools are required. Access 1 has three levels of interface:

- Operator feedback
- Full functionality of the truck while monitoring analog and digital inputs and outputs.
- Components can be "driven" with full currents and voltage eliminating inconclusive continuity guesswork.

Access 2 Module

This is the power supply for the hydraulic system including lift, all accessory functions, and load sense hydrostatic steering.

Access 3 Module

Full time management control of traction, braking and other system inputs and outputs. Access 3 simplifies the system by reducing componentry including directional and pump contactors, relays and other hard wired components.

Information On Time consists of clearly labeling each component and providing an area map showing the component location. A Quick Reference Troubleshooting Guide is supplied with each truck showing display operation, code definitions, and an overall component I.D. of the entire truck.

Performance Profiling

Performance Profiling can be accessed at the display to customize truck performance for specific applications or operator requirements.

Crown's Integrated Control System provides a responsive, energy efficient and reliable machine.

Access 1-2-3 diagnostics has been extensively developed to address the real world of troubleshooting and repair.

Travel

Increased travel speeds improve transport productivity especially when long distances are involved. Acceleration is increased to get the operator to the task quickly. An optional Productivity Package is available to increase empty travel and lower speeds.

Steering

Load sense hydrostatic steering is a low idle stand-by system which reduces energy consumption. Smooth, quiet steering control with minimal operator effort required at the steer tiller. Drive tire rotates 190° for maximum manuverability. Crown's hydrostatic steering system is simplified with significantly fewer parts, thus reducing maintenance requirements.

Braking

A disc brake on the motor armature shaft combined with motor regenerative braking provides sure braking with fewer parts and maintenace requirements. The offset, articulated drive unit design improves drive tire brake force and eliminates the caster brake, simplifying the system.

Suspension

The offset, articulated drive unit design provides positive floor contact.

Load Handling

Lift and lower speeds were increased for productive pallet put away and retrieval. Blending of hydraulic and traction functions, (travel, lift, and reach), is attainable. Lift, reach and sideshift are proportional for load handling accuracy.

Mast

High visibility mast design with angled cross bracing and angled overhead guard braces improve visibility for high or low stacking. Crown's patented staging cushions coupled with lowering dampers and speed reductions at maximum lift improve overall load handling control.

Rolled steel outer channel masts and inner "I" beams roll on canted, steel, anti-friction roller bearings for minimal current draw and long life. Telescoping mast sections nest to reduce truck length. Heavier mast cross bracing design increases stiffness. Above 270" lift, vertical mast reinforcement maintains maximum capacity.

Display

Two display options are available, (Standard and Enhanced), for information management on board. The Crown 5000 display has greatly simplified servicing, maintenance and fault rectification.

Reach Mechanism

Reach mechanism design allows for accurate modeling of stress conditions present in key components of the assembly. The result is no high stress areas. Inner arm has a one piece plate with continuous welding. Torque plate is also used to give the mechanism stiffness to resist twisting for long lasting-durability. Outer arms are designed with large heel to provide more material for stresses to be distributed evenly. Robotically welded for maximum strength.

Carriage

A hook type carriage conforming to ITA specifications is used. Load backrest is standard.

Other Options

Audible Travel Alarm.
 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 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 specifications are subject to change without notice.



New Bremen, Ohio 45869 USA Phone: 419/629-2311 Fax: 419/629-3796 crown.com