

CROWN

Specifications

**RR 5200 Series
S Class**

Narrow-Aisle
Reach Truck

RR 5200

Series



**RR 5200 Series
S Class**

Specifications

General Information		Crown Equipment Corporation		
1	Manufacturer			
2	Model		RR 5260/65S RR 5280/85S	
3	Load Capacity*	Max lb	4500 4500	
4	Load Center	Fork Face to Load CG in	24 24	
5	Power		36 Volts 36 Volts	
6	Operator Type	Reach	Stand Sit/Stand	
7	Tire Type	Load/Caster/Drive	Poly/Poly/Poly	
8	Wheels (x = driven)	Load/Power Unit	4/2 (1x)	
	Mast Type	High Visibility	TT	
Dimensions	9	Lift Height	in See Mast Chart	
	10	Guard Height	in See Mast Chart	
	13	Forks	Standard L x W x T in	36 x 4 x 1.75
			Optional Lengths in	30, 39, 42, 45, 48
	14	Carriage	Tilt F°/B° degree	3/4
	15	Headlength**	Comp't "C" in	54.91 54.91
			Comp't "D" in	56.66 56.66
			Comp't "E" in	59.28 59.28
17	Overall Collapsed Height	in	See Mast Chart	
18	Overall Extended Height	in	See Mast Chart	
20	Inside Straddle Width	In 1" increments in	34 - 50	
Performance	24	Speed Travel	Power Unit First (E/L) mph	8.3/7.5 8.3/7.5
		Forks First (E/L) mph	6.7/6.2 6.7/6.2	
	25	Speed Lift***	Empty fpm	146 146
			1000 lb fpm	127 127
			2000 lb fpm	113 113
			3000 lb fpm	101 101
			4000 lb fpm	91 91
			4500 lb fpm	86 86
25a	Optional Speed Lift	Empty/Loaded fpm	125/75 125/75	
26	Speed Lower	Empty/Loaded fpm	110/90 110/90	
Chassis	37	Tires	Size - Drive/Caster in	13 x 5.5/8.5 x 2.7 x (2)
	38	Wheelbase (Standard Wheel)	Comp't "C" in	59.57 59.57
			Comp't "D" in	61.32 61.32
			Comp't "E" in	63.95 63.95
	39	Suspension	Drive	Articulated
			Caster	Articulated, Swivel
	42	Brakes	Drive	Elec Release/Mech Applied
Caster			Electronically Applied	
Parking			Elec Release/Mech Applied	
Battery	Battery Removal		Drive Side	
	45	Type	Lead Acid	
	46	Min Weight/Max Amp	Comp't "C" lb/amp	2000/930 2000/930
			Comp't "D" lb/amp	2280/1085 2280/1085
			Comp't "E" ≤ 400" lb/amp	2600/1240 2600/1240
			Comp't "E" 401-421" lb/amp	2800/1240 2800/1240
	Max Battery Size	Comp't "C" in	16.25 x 38.38 x 31 16.25 x 38.38 x 31	
		Comp't "D" in	18.00 x 38.69 x 31 18.00 x 38.69 x 31	
		Comp't "E" in	20.75 x 38.69 x 31 20.75 x 38.69 x 31	

* Contact factory. Capacity may be subject to derating at height.

** Add 2" with optional sideshift.

***Maximum lift speeds available on units with the "E" Battery Compartment.

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		TT						
Mast	9	Lift Height	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	
Weight	Truck Weight w/o Battery		Battery Compartment					
			"C" lb	6167	6276	6589	6879	7386
		RR 5260/65S	"D" lb	6208	6317	6630	6920	7427
		RR 5280/85S	"E" lb	6272	6381	6694	6984	7491

		TT						
Mast	9	Lift Height	321"	341"	366"	400"	421"	
		Free Lift*	92	101	112	124	130	
	10	Guard Height	95	95	95	95	95	
	17	Overall Collapsed Height	140	149	160	172	178	
	18	Overall Extended Height*	369	389	414	448	469	
		Minimum Straddle OD	42	49	50	53	53	
Weight	Truck Weight w/o Battery		Battery Compartment					
			"C" lb	7562	na	na	na	na
		RR 5260/65S	"D" lb	7603	7854	na	na	na
		RR 5280/85S	"E" lb	7667	8024	8240	8474	8942

*With load backrest.
Above 321", 6" high load wheel standard.

Capacity

Model RR 5260/65S - 4500 lb at 24" load center, 36 volt

Model RR 5280/85S - 4500 lb at 24" load center, 36 volt

Batteries

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

Standard Equipment

1. Access 1 2 3[®] Comprehensive Control System
2. InfoPoint™ - quick reference guide and maps support diagnostics
3. 36-volt system
4. Enhanced Display Panel
 - 16 character alphanumeric message center, six button direct access
 - Access 1 2 3[®] diagnostics with real time troubleshooting diagnostics
 - Hour meters
 - Fuel gauge with lift interrupt
 - PIN security
5. Operator compartment
 - Variable side stance
 - Flexible five-point positioning
 - Back 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
 - 383 square inch floor area
 - Non-skid rubber floor mat
 - Entry bar
 - 5260S and 5265S model also includes 178 square inch upper footrest area
 - 5280S and 5285S model includes 178 square inch upper footrest area, adjustable suspended seat, perch and backrest. Multi-Task Control, armrest and steer tiller are adjustable.
 - Console light
6. Multi-Task Control, urethane covered
7. Hydrostatic power steering
8. Urethane covered steer tiller
9. High visibility power unit
10. High visibility mast
11. High performance travel (8.3 mph/e - power unit first)
12. Standard performance lift pumps (125 fpm/e, standard on "C" box, optional on "E" box)
13. High performance quiet lift pumps (146 fpm/e, na on "C" box, standard on "E" box)
14. 48" high load backrest
15. Tilting fork carriage
16. Tandem articulating load wheels
17. Silent mast staging system
18. High speed lift cut out 12" from maximum lift
19. Crown manufactured DC drive and lift motors
20. Articulated drive axle with 190° steer arc
21. Key switch
22. Horn
23. Emergency power disconnect
24. 350 amp battery connector
25. Large diameter battery rollers
26. Color-coded wiring

Optional Equipment

1. Mast lift heights to 421"
2. Maximum Performance System (MPS) includes:
 - Rack Height Select
 - Capacity Monitor
3. Tilt Position Assist
4. Motor brush wear and overtemp indicator (Enhanced display required)
5. Forward steering
6. 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. Corrosion/freezer conditioning
12. Load wheel sizes and compounds
13. Removable outrigger tips
14. Mesh screen mast guard
15. Overhead guard mesh
16. Crown manufactured sideshifter, 2" or 4" each way
17. Polished and tapered forks
18. Fork lengths
19. Keyless on/off switch
20. Drive-in rack mast
21. Mounting hardware and power supply for RF terminals

Operator Compartment

Soft, rounded surfaces make compartment interior more comfortable. Streamlined exterior smooths entry/exit for the operator.

A lower floor height, (9.9") first greets the operator. A 383 square inch floorboard and patented suspended floor provide comfortable footing.

All S Class reach trucks include an upper footrest area, (178 square inch) with smart foot interlocks and brake control. Using these large, exclusive footrests can improve operator comfort. From the standing position, the ability to lift either leg to a footrest can reduce fatigue which increases productivity.

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

An entry bar with sensors to automatically slow truck travel, encourages safe foot positioning inside the truck.

The 5280/85S model offers a superior level of flexibility for the operator. The 5280/85S has an adjustable suspended seat, perch, backrest, armrest, control handle and steer tiller. The combination of these features lets the operator move from a standing, leaning or seated driver position. The stress of standing can be relieved by sitting and the stresses of sitting can be relieved by standing. By changing postures and using different sets of muscles, significant ergonomic, physiological and orthopedic benefits may result.

The Multi-Task Control 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.

Access 1 2 3[®] Comprehensive Control System

This system provides unmatched truck control and system performance in:

- Traction control
- Hydraulic raise/lower
- Hydraulic accessory
- Hydrostatic steering control
- Braking
- Operator interface
- Diagnostics

Crown's patented traction system technology provides high available torque utilizing separately excited Crown manufactured motors. The closed loop traction control system maintains top speed throughout the battery charge. The AC powered traction motor, (standard on the RR 5265S and the RR 5285S models), also offers closed loop performance as the battery discharges. In addition, the AC drive motor slightly increases acceleration and improves plug reversal which may be an advantage in some applications.

On ramps or when interfacing with push-back racking, the "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, decreases motor temperature and can help increase motor brush life on DC traction systems. Motor brushes are eliminated with AC motors.

Crown's **Access 1 2 3® Comprehensive Control System** includes the most advanced diagnostic system in the industry. This technology provides quick access to critical information on any fault condition telling your technician; "where it is, what it is and what it does".

Access 1 Module

This is the display panel, (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.

InfoPoint™ developed as part of the Access 1 2 3®, allows your technician to troubleshoot without complicated schematics, wiring diagrams or cumbersome service manuals for over 95% of your repairs. Simplicity is complete with InfoPoint Quick Reference Guide, colored component maps and "information nuggets" located on the truck.

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 ID 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 AC traction system can provide improved plug response and even better acceleration which may be valuable in short shuttle applications.

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 maneuverability. 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 maintenance requirements. An electronically applied brake on the caster wheel works with the motor brake to provide good brake performance for the S Class truck.

Suspension

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

Load Handling

The optional Maximum Performance System (MPS) incorporates the Productivity Package, the Capacity Monitor and the Rack Select feature.

The Capacity Monitor shows the approximate weight on the forks and the fork height. It will alert the operator when the truck capacity is exceeded for the fork height. It will also show how high or to which lift zone you can raise the load.

The Rack Select feature allows the truck to be programmed to stop at preselected heights.

As the name implies, MPS offers the maximum productivity in those high-throughput applications.

Another useful option is the Tilt Position Assist. This allows the fork tilt to stop at a preprogrammed position. If set to a fork level condition, this will allow maximum fork clearance when entering pallets and improve productivity.

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.

Reach Mechanism

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

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 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.

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