

**CROWN**

**Specifications**

**RD 5200 Series  
S Class**

Narrow Aisle  
Reach Truck

**RD 5200**

**Series**





**RD 5200 Series  
S Class**

Specifications

				Crown Equipment Corporation			
				RD 5260/65S	RD 5280/85S		
General Information	1	<b>Manufacturer</b>		Crown Equipment Corporation			
	2	<b>Model</b>		RD 5260/65S	RD 5280/85S		
	3	<b>Load Capacity*</b>	Max	lb	3000	3000	
	4	<b>Load Center</b>	Fork Face to Load CG	in	24	24	
	5	<b>Power</b>			36 Volts	36 Volts	
	6	<b>Operator Type</b>	Reach		Stand	Sit/Stand	
	7	<b>Tire Type</b>	Load/Caster/Drive		Poly/Poly/Poly		
	8	<b>Wheels (x = driven)</b>	Load/Power Unit		4/2 (1x)		
Dimensions		<b>Mast Type</b>	Hi-Visibility		TT		
	9	<b>Lift Height</b>		in	See Mast Chart		
	10	<b>Guard Height</b>		in	See Mast Chart		
	13	<b>Forks</b>	Standard L x W x T	in	36 x 4 x 1.5		
			Optional Lengths	in	30, 39, 42, 45, 48		
	14	<b>Carriage</b>	Tilt F°/B°	degree	3/4		
	15	<b>Headlength**</b>	Comp't "C"	in	60.06		
			Comp't "E"	in	64.43		
	17	<b>Overall Collapsed Height</b>		in	See Mast Chart		
	18	<b>Overall Extended Height</b>		in	See Mast Chart		
20	<b>Inside Straddle Width</b>	In 1" increments	in	34 - 50			
Performance	24	<b>Speed Travel</b>	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	<b>Speed Lift***</b>	Empty	fpm	143	143	
			1000 lb	fpm	125	125	
			2000 lb	fpm	111	111	
			3000 lb	fpm	99	99	
25a	<b>Optional Speed Lift</b>	Empty/Loaded	fpm	124/84	124/84		
26	<b>Speed Lower</b>	Empty/Loaded	fpm	110/90	110/90		
Chassis	37	<b>Tires</b>	Size - Drive/Caster	in	13 x 5.5/8.5 x 2.7 x (2)		
	38	<b>Wheelbase (Standard Wheel)</b>	Comp't "C"	in	61.32		
			Comp't "E"	in	65.70		
	39	<b>Suspension</b>	Drive		Articulated		
			Caster		Articulated, Swivel		
42	<b>Brakes</b>	Drive		Elec Release/Mech Applied			
		Caster		Electronically Applied			
		Parking		Elec Release/Mech Applied			
Battery		<b>Battery Removal</b>			Drive Side		
	45	<b>Type</b>			Lead Acid		
	46	<b>Min Weight/Max Amp</b>	Comp't "C"	lb/amp	2000/930	2000/930	
			Comp't "E" ≤ 400"	lb/amp	2600/1240	2600/1240	
			Comp't "E" 401-421"	lb/amp	2800/1240	2800/1240	
	<b>Max Battery Size</b>	Comp't "C"	in	16.25x38.69x31	16.25x38.69x31		
		Comp't "E"	in	20.75x38.69x31	20.75x38.69x31		

\* 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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		<b>TT</b>					
<b>Mast</b>	<b>9</b>	Lift Height	198"	210"	240"	270"	300"
		Free Lift*	53	59	71	83	95
	<b>10</b>	Guard Height	89	95	95	95	95
	<b>17</b>	Overall Collapsed Height	89	95	107	119	131
	<b>18</b>	Overall Extended Height*	234	246	276	306	336
		Minimum Straddle OD	42	42	42	42	42
<b>Weight</b>	Truck Weight w/o Battery		Battery Compartment				
	<b>RD 5260/65S</b>	C lb	6329	6439	6752	7041	7548
	<b>RD 5280/85S</b>	E lb	6434	6544	6857	7146	7653

		<b>TT</b>					
<b>Mast</b>	<b>9</b>	Lift Height	321 "	341 "	366"	400"	421"
		Free Lift*	104	113	124	136	142
	<b>10</b>	Guard Height	95	95	95	95	95
	<b>17</b>	Overall Collapsed Height	140	149	160	172	178
	<b>18</b>	Overall Extended Height*	357	377	402	436	457
		Minimum Straddle OD	42	49	50	53	53
<b>Weight</b>	Truck Weight w/o Battery		Battery Compartment				
	<b>RD 5260/65S</b>	C lb	7725	na	na	na	na
	<b>RD 5280/85S</b>	E lb	7830	8191	8407	8641	9109

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

### Capacity

Model RD 5260/65S: 3000 lb at 24" load center, 36 volt.

Model RD 5280/85S: 3000 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

- Access 1 2 3<sup>®</sup> Comprehensive Control System
- InfoPoint - quick reference guide and maps support diagnostics
- 36 volt system
- Enhanced Display Panel
  - 16 character alphanumeric message center, six button direct access
  - Access 1 2 3<sup>®</sup> diagnostics with real time troubleshooting diagnostics
  - Hour meters
  - Fuel gauge with lift interrupt
  - PIN security
- 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
- Multi-Task Control, urethane covered
- Hydrostatic power steering
- Urethane covered steer tiller
- High visibility power unit
- High visibility mast
- High performance travel (8.3 mph/e - power unit first)
- Standard performance lift pumps (125 fpm/e, standard on C box, optional on E box)
- High performance quiet lift pumps (146 fpm/e, na on C box, standard on E box)

- 48" high load backrest
- Tilting fork carriage
- Tandem articulating load wheels
- Silent mast staging system
- High speed lift cut out 12" from maximum lift
- Crown manufactured DC drive and lift motors
- Articulated drive axle with 190° steer arc
- Key switch
- Horn
- Emergency power disconnect
- 350 amp battery connector
- Large diameter battery rollers
- Color coded wiring

### Optional Equipment

- Mast lift heights to 421"
- Maximum Performance System (MPS) includes:
  - Rack Height Select
  - Capacity Monitor
- Tilt Position Assist
- Motor brush wear and overtemp indicator (Enhanced display required)
- Forward steering
- Lift limit with or without override (requires height encoder)
- Battery retainer with interlock
- 36" and 42" high load backrests
- Work lights
- Fan
- Corrosion/freezer conditioning
- Load wheel sizes and compounds
- Removable outrigger tips
- Mesh screen mast guard
- Overhead guard mesh
- Crown manufactured sideshifter. 2" or 4" each way.
- Polished and tapered forks
- Fork lengths
- Keyless on/off switch
- Drive-in rack mast
- 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<sup>®</sup> 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 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 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 cant- ed, 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.*