

CROWN

Specifications

**RD 5200 Series
S Class**

Narrow-Aisle
Reach Truck

RD 5200

Series



RD 5200 Series S Class

Specifications

General Information				Crown Equipment Corporation			
1	Manufacturer			Crown Equipment Corporation			
2	Model			RD 5275S	RD 5285S		
3	Load Capacity*	Max	lb	3000	3000		
4	Load Center	Fork Face to Load CG		24	24		
5	Power			36 Volts	36 Volts		
6	Operator Type	Reach		Sit/Stand	Sit/Stand		
7	Tire Type	Load/Caster/Drive		Poly/Poly/Poly			
8	Wheels (x = driven)	Load/Power Unit		4/2 (1x)			
9	Mast Type	Hi-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 1.5		
			Optional Lengths	in	30, 39, 42, 45, 48		
	14	Carriage	Tilt F°/B°	degree	3 / 4		
	15	Headlength**	Comp't "C"	in	60.06		
			Comp't "D"	in	61.81		
	Comp't "E"		in	64.43 / 69.18†			
17	Overall Collapsed Height			See Mast Chart			
18	Overall Extended Height			See Mast Chart			
20	Inside Straddle Width	In 1" increments	in	34 - 50			
Performance	24	Speed Travel	Power Unit First (E/L)	mph	7.5 / 7.5	8.3 / 7.5	
			Forks First (E/L)	mph	6.2 / 6.2	6.7 / 6.2	
	24a	Speed Travel - Max Performance System ††	Power Unit First (E/L)	mph	8.3 / 7.5	Std.	
			Forks First (E/L)	mph	6.7 / 6.2	Std.	
	25	Speed Lift***	Empty	fpm	131	143	
			1000 lb	fpm	116	125	
			2000 lb	fpm	103	111	
			3000 lb	fpm	93	99	
25a	High Speed Lift****	Empty/Loaded	fpm	143 / 99			
26	Speed Lower	Empty/Loaded	fpm	85 / 90	110 / 90		
26a	Speed Lower - Max Performance System ††	Empty/Loaded	fpm	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	61.32		
			Comp't "D"	in	63.07		
			Comp't "E"	in	65.70 / 70.45†		
	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" 401-442"	lb/amp	2800 / 1240	2800 / 1240	
		Max Battery Size	Comp't "C"	in	16.25x38.69x31		
Comp't "D"			in	18.00x38.69x31			
Comp't "E"			in	20.75x38.69x31			

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

** Add 2" with optional sideshift.

*** 5285S "C" Battery compartment has lift speeds of 5275S

**** Optional maximum lift speeds available on units with the "D" or "E" Battery Compartment.

† 442" Lift Height

†† Maximum Performance System optional on 5275S.

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		TT							
Mast	9	Lift Height	198"	210"	240"	270"	300"	321"	
		Free Lift*	53	59	71	83	95	104	
	10	Guard Height	89	95	95	95	95	95	
	17	Overall Collapsed Height	89	95	107	119	131	140	
	18	Overall Extended Height*	234	246	276	306	336	357	
		Minimum Straddle OD	42	42	42	42	42	42	
Weight	Truck Weight w/o Battery		Battery Compartment						
	RD 5275S	"C"	lb	6329	6439	6752	7041	7548	7725
	RD 5285S	"D"	lb	6379	6489	6802	7091	7598	7775
		"E"	lb	6434	6544	6857	7146	7653	7830

		TT						
Mast	9	Lift Height	341"	366"	400"	421"	442"	
		Free Lift*	113	124	136	142	154	
	10	Guard Height	95	95	95	95	95	
	17	Overall Collapsed Height	149	160	172	178	190	
	18	Overall Extended Height*	377	402	436	457	478	
		Minimum Straddle OD	49	50	53	53	53	
Weight	Truck Weight w/o Battery		Battery Compartment					
	RD 5275S	"C"	lb	na	na	na	na	na
	RD 5285S	"D"	lb	8136	na	na	na	na
		"E"	lb	8191	8407	8641	9109	9473

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

Capacity

Model RD 5275S - 3000 lb at 24" load center, 36 volt

Model RD 5285S - 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

1. Crown's Access 1 2 3® Comprehensive System Control
2. InfoPoint® - quick reference guide and maps support diagnostics
3. 36 volt electrical system
4. Enhanced Display Panel
 - 16 character alphanumeric message center, 6 button direct access
 - Access 1 2 3 diagnostics with real time troubleshooting diagnostics
 - Four hour meters
 - Fuel gauge with lift interrupt
 - PIN security
5. Rack Height Select
6. Motor brush wear and overtemp indicator
7. 5285S model includes capacity monitor, high performance travel (8.3 mph/e power unit first), high performance quiet lift pump (143 fpm/e) - not available on "C" battery compartment, and tilt position assist
8. Standard performance lift pumps (131 fpm/e), on 5275S "C", "D" and "E" battery compartment and 5285S "C" Battery Compartment
9. Operator compartment
 - Variable side stance
 - Flexible five-point positioning
 - Adjustable suspended seat, perch, backrest, and Multi-Task Control armrest
 - Adjustable steer tiller
 - Back support with integral hip support
 - Arm/elbow support padding
 - Padded compartment interior walls
 - Operator console with work surface and storage
 - Lower storage compartment
 - Entry bar
 - Suspended floor
 - 383 square inch floor area
 - 178 square inch upper footrest area
 - Non-skid rubber floor mat

- Console light
 - Urethane covered Multi-Task Control and steer tiller
10. Hydrostatic power steering
 11. High visibility power unit
 12. High visibility mast
 13. 36" high load backrest
 14. Tilting fork carriage
 15. Tandem articulating load wheels
 16. Silent mast staging system
 17. High-speed lift cutout 12" from maximum lift
 18. Crown-manufactured AC drive and DC lift motors
 19. Articulated drive axle with 190° steer arc
 20. Key switch
 21. Horn
 22. Emergency power disconnect
 23. 350 amp battery connector
 24. Large diameter battery rollers
 25. Color-coded wiring
 26. Third post

Optional Equipment

1. Mast lift heights to 442"
2. Performance Options for 5275S:
 - Maximum Performance System
 - Enhanced Display
 - Rack Height Select
 - Capacity Monitor
 - Productivity Package High performance travel (8.3 mph/e - power unit first) and high speed lower (110/90 fpm)
 - Tilt Position Assist
 - High performance quiet lift pump (143 fpm/e) - available with "D" or "E" battery box
3. Forward steering
4. Lift limit with or without override (requires height encoder)
5. Battery retainer with interlock
6. 36" and 42" high load backrests
7. Work lights
8. Fan
9. Corrosion/freezer conditioning (freezer conditioning includes a 5/8" thick power unit skirt with extended coverage of the drive and caster tires)
10. ThermoAssist™ freezer comfort options (freezer conditioning required)
 - ThermoAssist™ ("C" or "D" battery compartment)
 - ThermoAssist+™ ("E" battery compartment)

11. Load wheel sizes and compounds
12. Removable outrigger tips
13. Mesh screen mast guard
14. Overhead guard mesh
15. Crown-manufactured sideshifter, 2" each way
16. Polished and tapered forks
17. Fork lengths
18. Keyless on/off switch
19. Drive-in rack mast
20. Mounting hardware and power supply for RF terminals
21. Chain slack kit
22. Drive-in rack cylinder package
23. Work Assist™ Accessories:
 - Accessory tube
 - Accessory RF mounting plate
 - Accessory RF mounting bracket
 - Accessory clamp
 - Accessory clip pad
 - Accessory hook
 - Accessory clip pad and hook
 - Accessory pocket
24. InfoLink® Ready System

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 S Class model offers a superior level of flexibility for the operator with 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 seat-

ed 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.

Crown's Access 1 2 3® Comprehensive System Control

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

- 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 Crown-manufactured motors. The closed loop traction control system maintains top speed throughout the battery charge.

The AC powered traction motor offers closed loop performance to maintain top speed as the battery discharges. The AC drive motor offers increased acceleration and improved plug reversal.

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.

Crown's Access 1 2 3®

advanced diagnostic system consists of three modules. This technology provides quick access to critical information on any fault condition telling your technician; "what it is, where 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 provides 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 Maximum Performance System (MPS) incorporates the Productivity Package, the Capacity Monitor and the Rack Height 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 Height 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 local 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.

CROWN

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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