CROWN

Specifications

RR 5200 Series
S Class

Narrow-Aisle
Reach Truck

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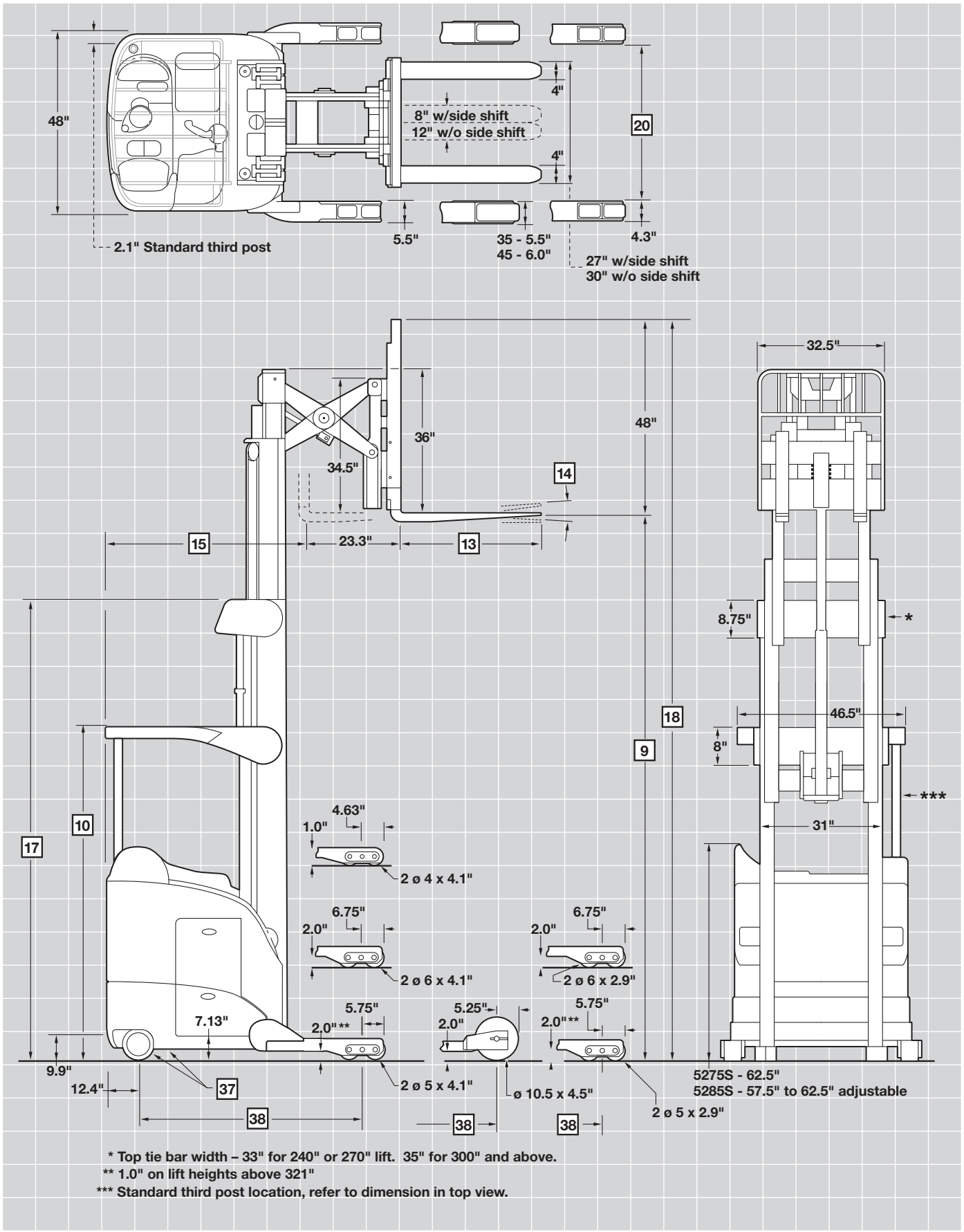

* Top tie bar width – 33" for 240" or 270" lift. 35" for 300" and above.
** 1.0" on lift heights above 321"
*** Standard third post location, refer to dimension in top view.

General Information	1	**Manufacturer**			**Crown Equipment Corporation**	
	2	**Model**			RR 5275S	RR 5285S
	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		Sit/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	
			Comp't "D"	in	56.66	
			Comp't "E"	in	59.28 / 64.03†	
	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	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	146
			1000 lb	fpm	116	127
			2000 lb	fpm	103	113
			3000 lb	fpm	93	101
			4000 lb	fpm	84	91
			4500 lb	fpm	80	86
	25a	**High Speed Lift******	Empty/Loaded	fpm	146 / 86	Std.
	26	**Speed Lower**	Empty/Loaded	fpm	85 / 90	110 / 90
	26a	**Speed Lower - Max Performance System ††**	Empty/Loaded	fpm	110 / 90	Std.
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	
			Comp't "D"	in	61.32	
			Comp't "E"	in	63.95 / 68.7†	
	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	16.25 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.
*** 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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Mast	**9**	Lift Height			198"	210"	240"	270"	300"	321"
		Free Lift*			41	47	59	71	83	92
	10	Guard Height			89	95	95	95	95	95
	17	Overall Collapsed Height			89	95	107	119	131	140
	18	Overall Extended Height*			246	258	288	318	348	369
		Minimum Straddle OD			42	42	42	42	42	42
Weight		Truck Weight w/o Battery	Battery Compartment							
		RR 5275S **RR 5285S**	"C"	lb	6167	6276	6589	6879	7386	7562
			"D"	lb	6217	6326	6639	6929	7436	7612
			"E"	lb	6272	6381	6694	6984	7491	7667

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Mast	**9**	Lift Height			341"	366"	400"	421"	442"
		Free Lift*			101	112	124	130	142
	10	Guard Height			95	95	95	95	95
	17	Overall Collapsed Height			149	160	172	178	190
	18	Overall Extended Height*			389	414	448	469	490
		Minimum Straddle OD			49	50	53	53	53
Weight		Truck Weight w/o Battery	Battery Compartment						
		RR 5275S **RR 5285S**	"C"	lb	na	na	na	na	na
			"D"	lb	7969	na	na	na	na
			"E"	lb	8024	8240	8474	8942	9305

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

Capacity
Model RR 5275S - 4500 lb at 24" load center, 36 volt

Model RR 5285S - 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. 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 trouble-shooting 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 (146 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. 48" 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 190º 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 (146 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" or 4" 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 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.

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.

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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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