RR 5200 Series
narrow aisle reach truck

specifications
RR 5200 Series
narrow aisle reach truck

* Top tie bar width – 33" for 240" or 270" lift. 35" for 300" and above.
** 1.0" on lift heights above 321"
### RR 5200 Series Specifications

<table>
<thead>
<tr>
<th>General Information</th>
<th>Crown Equipment Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>RR 5210-35 RR 5210-40 RR 5220-35 RR 5220-45</td>
</tr>
<tr>
<td>Model</td>
<td>RR 5210-35 RR 5210-40 RR 5220-35 RR 5220-45</td>
</tr>
<tr>
<td>Load Capacity*</td>
<td>Max lb 3500 4000 3500 4500</td>
</tr>
<tr>
<td>Load Center</td>
<td>Fork Face to Load CG in 24 24 24 24</td>
</tr>
<tr>
<td>Power</td>
<td>24 Volts 24 Volts 36 Volts 36 Volts</td>
</tr>
<tr>
<td>Operator Type</td>
<td>Reach Stand Stand Stand Stand</td>
</tr>
<tr>
<td>Tire Type</td>
<td>Load/Caster/Drive Poly/Poly/Poly</td>
</tr>
<tr>
<td>Wheels (x = driven)</td>
<td>Load/Power Unit 4/2 (1x)</td>
</tr>
<tr>
<td>Mast Type</td>
<td>Hi-Visibility TT</td>
</tr>
<tr>
<td>Lift Height</td>
<td>in See Mast Chart</td>
</tr>
<tr>
<td>Guard Height</td>
<td>in See Mast Chart</td>
</tr>
<tr>
<td>Forks</td>
<td>Standard L x W x T in 36 x 4 x 1.75</td>
</tr>
<tr>
<td>Optional Lengths</td>
<td>in 30, 39, 42, 45, 48</td>
</tr>
<tr>
<td>Carriage</td>
<td>Tilt F°/B° degree 3/4</td>
</tr>
<tr>
<td>Headlength**</td>
<td>Comp’t “A” in 47.16 na 47.16 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “B” in 49.28 49.28 49.28 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “C” in 51.28 51.28 51.28 52.91</td>
</tr>
<tr>
<td></td>
<td>Comp’t “D” in na na na 54.66</td>
</tr>
<tr>
<td></td>
<td>Comp’t “E” in na na na 57.28</td>
</tr>
<tr>
<td>Overall Collapsed Height</td>
<td>in See Mast Chart</td>
</tr>
<tr>
<td>Overall Extended Height</td>
<td>in See Mast Chart</td>
</tr>
<tr>
<td>Inside Straddle Width</td>
<td>In 1” increments in 34 - 50</td>
</tr>
<tr>
<td>Speed Travel</td>
<td>Power Unit First (E/L) mph 6.3/6.3 6.3/6.3 7.2/7.2 7.2/7.2</td>
</tr>
<tr>
<td></td>
<td>Forks First (E/L) mph 5.7/5.7 5.7/5.7 5.7/5.7 5.7/5.7</td>
</tr>
<tr>
<td>Speed Travel with Productivity Package</td>
<td>Power Unit First (E/L) mph na na 7.8/7.2 7.8/7.2</td>
</tr>
<tr>
<td>Speed Lift</td>
<td>Empty/Loaded fpm 52/37 52/33 122/75 118/65</td>
</tr>
<tr>
<td>Speed Lower</td>
<td>Empty/Loaded fpm 85/90 85/90 85/90 85/90</td>
</tr>
<tr>
<td>Speed Lower with Productivity Package</td>
<td>Empty/Loaded fpm na na 110/90 110/90</td>
</tr>
<tr>
<td>Tires</td>
<td>Size - Drive/Caster in 13 x 5.5/8 x 4</td>
</tr>
<tr>
<td>Wheelbase (Standard Wheel)</td>
<td>Comp’t “A” in 52.12 na 52.12 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “B” in 54.24 54.24 54.24 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “C” in 56.24 56.24 56.24 59.57</td>
</tr>
<tr>
<td></td>
<td>Comp’t “D” in na na na 61.32</td>
</tr>
<tr>
<td></td>
<td>Comp’t “E” in na na na 63.95</td>
</tr>
<tr>
<td>Suspension</td>
<td>Drive Articulated</td>
</tr>
<tr>
<td></td>
<td>Caster Articulated, Swivel</td>
</tr>
<tr>
<td>Brakes</td>
<td>Drive Elec Release/Mech Applied</td>
</tr>
<tr>
<td></td>
<td>Caster None</td>
</tr>
<tr>
<td></td>
<td>Parking Elec Release/Mech Applied</td>
</tr>
<tr>
<td>Battery Removal</td>
<td>Both Sides</td>
</tr>
<tr>
<td>Type</td>
<td>Lead Acid</td>
</tr>
<tr>
<td>Min Weight/Max Amp</td>
<td>Comp’t “A” lb/amp 1300/1085 na 1300/620 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “B” lb/amp 1600/1085 1600/775 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “C” lb/amp 1880/1020 1880/1020 1880/930 2000/930</td>
</tr>
<tr>
<td></td>
<td>Comp’t “D” lb/amp na na na 2280/1085</td>
</tr>
<tr>
<td></td>
<td>Comp’t “E” lb/amp na na na 2600/1240</td>
</tr>
<tr>
<td>Max Battery Size</td>
<td>Comp’t “A” in 12.19x38.38x31 na 12.19x38.38x31 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “B” in 14.25x38.38x31 14.25x38.38x31 14.25x38.38x31 na</td>
</tr>
<tr>
<td></td>
<td>Comp’t “C” in 16.25x38.38x31 16.25x38.38x31 16.25x38.38x31 16.25x38.38x31</td>
</tr>
<tr>
<td></td>
<td>Comp’t “D” in na na na 18.00x38.69x31</td>
</tr>
<tr>
<td></td>
<td>Comp’t “E” in na na na 20.75x38.69x31</td>
</tr>
</tbody>
</table>

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

**Add 2” with optional sideshift.
## RR 5200 Series Specifications

### Models RR 5210-35, 5210-40, 5220-35 and 5220-45

<table>
<thead>
<tr>
<th>Mast</th>
<th>9 Lift Height (RR 5210-35 and -40, 270” Max)</th>
<th>TT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>198” 210” 240” 270” 300”</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Free Lift*</td>
<td>41 47 59 71 83</td>
</tr>
<tr>
<td>17</td>
<td>Guard Height</td>
<td>89 95 95 95 95</td>
</tr>
<tr>
<td>18</td>
<td>Overall Collapsed Height</td>
<td>89 95 107 119 131</td>
</tr>
<tr>
<td></td>
<td>Overall Extended Height*</td>
<td>246 258 288 318 348</td>
</tr>
<tr>
<td></td>
<td>Minimum Straddle OD</td>
<td>42 42 42 42 42</td>
</tr>
</tbody>
</table>

### Free Lift* - With load backrest.

**RR 5210-40 Not available with "A" battery compartment.**

### Truck Weight w/o Battery

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model RR 5210-35</th>
<th>TT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A lb</td>
<td>5284 5370 na na na</td>
</tr>
<tr>
<td></td>
<td>B lb</td>
<td>5330 5416 5675 na na</td>
</tr>
<tr>
<td></td>
<td>C lb</td>
<td>5374 5460 5719 5962 na</td>
</tr>
<tr>
<td></td>
<td>RR 5220-35</td>
<td>A lb 5362 5448 na na na</td>
</tr>
<tr>
<td></td>
<td>B lb</td>
<td>5408 5494 5753 na na</td>
</tr>
<tr>
<td></td>
<td>C lb</td>
<td>5452 5538 5797 6040 6212</td>
</tr>
<tr>
<td></td>
<td>RR 5220-45</td>
<td>D lb 5878 5987 6300 6590 7097</td>
</tr>
<tr>
<td></td>
<td>E lb</td>
<td>5933 6042 6355 6645 7152</td>
</tr>
</tbody>
</table>

### Weight Mast

<table>
<thead>
<tr>
<th>Weight</th>
<th>Model RR 5220-45</th>
<th>TT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C lb</td>
<td>7231 na na na</td>
</tr>
<tr>
<td></td>
<td>D lb</td>
<td>7273 7524 na na</td>
</tr>
<tr>
<td></td>
<td>E lb</td>
<td>7328 7579 7795 8029</td>
</tr>
</tbody>
</table>

* With load backrest.

**RR 5210-40 Not available with "A" battery compartment.**

Above 321” 6” high load wheel standard.
**Capacity**
Model RR 5210-35: 3500 lb at 24" load center, 24 volt.
Model RR 5210-40: 4000 lb at 24" load center, 24 volt.
Model RR 5220-35: 3500 lb at 24" load center, 36 volt.
Model RR 5220-45: 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
3. Work Relief Center
   • 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
   • 270 square inch floor area
   • Non-skid rubber floor mat
   • Console light
4. “Multi-task” controller, urethane covered
5. Urethane covered steer tiller
6. Hydrostatic power steering
7. 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
13. Tandem articulating load wheels
14. Silent mast staging system
15. Quiet lift pumps
16. High speed lift cut out 12” from maximum lift
17. Crown manufactured drive and lift motors
18. 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**
1. Mast lift heights to 400”
2. Enhanced Display Panel with 16 character alphanumeric message center, six button direct access
3. Maximum Performance System (MPS) includes:
   • Enhanced Display
   • Rack Height Select
   • Productivity Package
   • Capacity Monitor
4. Tilt Position Assist
5. Motor brush wear and overtemp indicator, (requires enhanced display)
6. Forward steering
7. Lift limit with or without override, (requires height encoder)
8. Battery retainer with interlock
9. 36” and 42” high load backrests
10. Work lights
11. Fan
12. Productivity package (RR 5220 only)
13. Corrosion/freezer conditioning
14. Load wheel sizes and compounds
15. Removable outrigger tips
16. Mesh screen mast guard
17. Overhead guard mesh
18. Crown manufactured sideshifter. 2” or 4” each way.
19. Polished and tapered forks
20. Fork lengths
21. Keyless on/off switch

**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.

**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.

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 3rd 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 tilter.

Braking
A disc brake on the motor armature shaft combined with motor regenerative braking provides sure braking with fewer parts and maintenance 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
The optional Maximum Performance System (MPS) incorporates the Enhanced Display, 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.

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