SHR 5500 SERIES

Specifications
Heavy-Duty Walkie Reach Stacker
SHR 5500 Series
Heavy-Duty Walkie Reach Stacker

BRAKE

(1) ø 10.5" x 4"
(ø 270 mm x 100 mm)

(2) ø 4" x 2.88"
(ø 100 mm x 74 mm)

*See Note

*Note: 4" (100 mm) dia. load wheel option = 1" (25 mm)
# SHR 5500 Series Specifications

## General Information

<table>
<thead>
<tr>
<th>1</th>
<th>Manufacturer</th>
<th>Crown Equipment Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Model</td>
<td>SHR 5520-25 and SHR 5520-30</td>
</tr>
<tr>
<td>3</td>
<td>Load Capacity</td>
<td>lb</td>
</tr>
<tr>
<td>4</td>
<td>Load Center</td>
<td>in</td>
</tr>
<tr>
<td>5</td>
<td>Power</td>
<td>Electric</td>
</tr>
<tr>
<td>6</td>
<td>Operator Type</td>
<td>Walkie</td>
</tr>
<tr>
<td>7</td>
<td>Tire Type</td>
<td>Load / Drive</td>
</tr>
<tr>
<td>8</td>
<td>Wheels (x = driven)</td>
<td>4 / 1x</td>
</tr>
</tbody>
</table>

## Dimensions

<table>
<thead>
<tr>
<th>9</th>
<th>Lift Height</th>
<th>in</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Head Length*</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>11</td>
<td>Wheelbase</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>12</td>
<td>Turning Radius</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>13</td>
<td>Inside Straddle</td>
<td>in</td>
<td>mm</td>
</tr>
<tr>
<td>14</td>
<td>Lift Height</td>
<td>See Chart</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Head Length*</td>
<td>1120</td>
<td>50.5</td>
</tr>
<tr>
<td>16</td>
<td>Wheelbase</td>
<td>1340</td>
<td>65.9</td>
</tr>
<tr>
<td>17</td>
<td>Turning Radius</td>
<td>1510</td>
<td>1675</td>
</tr>
<tr>
<td>18</td>
<td>Inside Straddle</td>
<td>34 - 50” in</td>
<td>865 - 1270 mm in 2” increments</td>
</tr>
</tbody>
</table>

## Performance

| 19 | Travel Speeds | Empty / Loaded | mph | km/h |
| 20 | Lift Speeds | Empty / Loaded | fpm | m/s |
| 21 | Lowering Speeds | Empty / Loaded | fpm | m/s |
| 22 | Grade Clearance** | % | 9 / 17 | 9 / 17 | 8 / 15 | 8 / 15 |

## Mast and Weight

| 23 | Free Lift with LBR | in | mm |
| 24 | Extended Height with LBR | in | mm |

## Mast Type

<table>
<thead>
<tr>
<th>Mast Type</th>
<th>TL – Limited Free Lift</th>
<th>TT – Triple Telescopic</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Lift Height</td>
<td>in</td>
</tr>
<tr>
<td>26</td>
<td>Load Capacity</td>
<td>lb</td>
</tr>
<tr>
<td>27</td>
<td>Free Lift with LBR</td>
<td>in</td>
</tr>
<tr>
<td>28</td>
<td>Extended Height with LBR</td>
<td>in</td>
</tr>
</tbody>
</table>

*Add 2.1” (55 mm) for Sideshift  
**Load Wheel Size

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*Up to 127” (3225 mm), 3350 lb (1550 kg) at 150.5” (3820 mm)  
**Up to 156” (3960 mm), 2500 lb (1130 kg) at 192” (4875 mm)  
***Add 105 lb (55 kg) for Sideshift
**Capacity**

Model SHR 5520-25: 2500 lb (1130 kg) at 24" (600 mm) load center  
Model SHR 5520-30: 3000 lb (1360 kg) at 24" (600 mm) load center  
Model SHR 5540-35: 3500 lb (1585 kg) at 24" (600 mm) load center

**Maximum Battery Size**

SHR 5520-25 and SHR 5520-30: 6.62" wide x 34.37" long x 24.8" high (168 x 873 x 630 mm) – up to 300 amp hours, 24 volts  
SHR 5540-35: 13.12" wide x 31.10" long x 24.8" high (333 x 790 x 630 mm) – up to 660 amp hours, 24 volts

**Standard Equipment**

1. 24-volt electrical system  
2. Crown's Access 1 2 3® Comprehensive System Control

**Optional Equipment**

3. Access 1 2 3 display  
   - Eight-character scrolling display, 5 button access  
   - Three selectable performance levels  
   - BOI with lift interrupt  
   - Five hour meters  
   - Event codes  
   - Access 1 2 3 diagnostics with real time troubleshooting  
   - PIN code capability  
4. AC traction and steer motors
5. Performance enhancing features  
   - X10® Handle (tilt and reach standard)  
   - Brake override  
   - Electronic power steering  
   - Ramp hold and speed control  
   - Power boost  
   - High-visibility mast and carriage  
   - Low profile power unit  
   - Tool storage tray  
6. Wire mesh guard - mast  

**Technical Information**

4. Sideshift with internal hosing  
   - 4" (100 mm) sideshift each direction – reduces capacity  
   - 300 lb (140 kg)
5. Optional fork lengths (30", 39", 42", 45", 48", 54", 60")  
   - (760, 990, 1060, 1145, 1220, 1370, 1525 mm)
6. Freezer conditioning  
   - (Continuous -30° C / -22° F)
7. Plexiglass safety shield
8. 10" dia. x 4" wide drive tire (250 x 100 mm)  
   - Soft poly  
   - Siped soft poly  
9. Polyurethane load wheels  
   - 4" dia. x 2.88" wide (100 x 74 mm)  
   - (1" [25 mm] under clearance below outriggers)  
   - 10.5" dia. x 4" wide (270 x 100 mm)
10. InfoLink® ready  
11. SBE 160 battery connector  
12. EE Rating

**SHR 5500 Series**

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**Aisle Planning Guide**

**SHR 5520**

<table>
<thead>
<tr>
<th>Pallet Width</th>
<th>Pallet Length in (mm)</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>36 (915)</strong></td>
<td>62 1575 81 2060 82 1575 87 2210 82 1575 89 2260 89 1600 96 2450</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><strong>40 (1016)</strong></td>
<td>65 1880 81 2060 65 1880 87 2210 65 1880 90 2285 65 1880 97 2465</td>
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</tr>
<tr>
<td><strong>42 (1067)</strong></td>
<td>68 1880 81 2060 68 1880 87 2210 68 1880 90 2285 68 1880 97 2465</td>
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<td></td>
</tr>
<tr>
<td><strong>48 (1220)</strong></td>
<td>69 1750 81 2060 69 1750 88 2210 69 1750 91 2310 70 1780 98 2490</td>
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**SHR 5540**

<table>
<thead>
<tr>
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<th>Pallet Length in (mm)</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>36 (915)</strong></td>
<td>66 1675 83 2110 66 2110 86 2185 66 1675 92 2340 66 1675 94 2390 66 1765 102 2590</td>
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</tr>
<tr>
<td><strong>40 (1016)</strong></td>
<td>68 1730 83 2110 68 2130 86 2185 68 1730 92 2340 68 1730 95 2415 68 1730 102 2590</td>
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<tr>
<td><strong>42 (1067)</strong></td>
<td>69 1755 84 2135 69 2135 87 2210 69 1755 93 2365 69 1755 99 2415 69 1755 103 2615</td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>48 (1220)</strong></td>
<td>72 1830 84 2135 72 2135 87 2210 72 1830 93 2365 72 1830 96 2450 73 1855 104 2640</td>
<td></td>
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</tr>
</tbody>
</table>

A = Equal Intersecting Aisles  
B = Right Angle Aisles  
Add 2.5" (65 mm) if sideshift option is used.  
Add 6" (150 mm) to 12" (300 mm) to all aisle dimensions for maximum maneuverability.
Operator Controls
Crown’s robust X10 handle places all control buttons in the optimum position for ease of operation with either hand and to minimize hand and wrist movements. An ergonomic forward/reverse thumb wheel allows for precise maneuvering. The control hand grips are urethane covered for insulation from cold and vibration with integrated horn buttons for easy activation. The handle contains a safety button which reverses the direction of the truck should the button touch the operator.

The physical efforts to hold the handle at a comfortable height was minimized to reduce fatigue.

A rabbit/turtle switch incorporates two levels of programmable travel performance so operators can select the setting that matches their experience level or application requirements.

Exclusive brake override feature allows slow speed travel with the handle near vertical. This feature improves maneuverability in tight areas.

Performance
The SHR 5500 Series incorporates the latest generation AC drive system enhanced with Access 1 2 3 technology, Crown’s Access 1 2 3 technology continuously monitors truck systems and adjusts system parameters to deliver optimum performance and control. The Access Display provides a convenient interface for operators keeping them informed of any changes impacting truck performance and allowing them to choose from three performance profiles when enabled.

Programmable performance settings enable authorized personnel to tune the lift truck to different operator skill levels, or to meet specific application requirements. In addition, up to 25 PIN codes can be assigned to individual operators and matched to one of the preprogrammed performance profiles if desired.

Electronic power steering allows the operator to maneuver heavy loads in tight spaces throughout the day while minimizing fatigue. Smooth travel and lift performance combine with excellent controls provided by the X10 handle to increase productivity.

The SHR 5500 Series features ramp hold and speed control to improve operation on small inclines or ramps. The ramp hold feature uses the motor to prevent truck movement when the brake is released and no travel command is present. The ramp speed control feature insures that actual travel speed matches requested travel speed. If the truck encounters an obstacle, a power boost feature delivers up to 15 percent more power than normally available for a full three seconds to overcome the obstruction.

Electrical System
A heavy-duty 24-volt fused electrical system utilizes microprocessor controls for maximum energy efficiency, reduced maintenance and infinite speed control capability. Access control modules for travel, lift and steer are sealed from dirt, dust and moisture for trouble-free operation. All contactors have been eliminated except for the main line contactor. A 175 amp battery connector with disconnect handle is standard.

Hydraulic System
Heavy-duty hydraulic motor (4.8 kw) is transistor controlled and matched with a gear type pump selected for optimum lift performance and low noise. Single-speed lift with programmable acceleration - deceleration and programmable two-speed lowering enables customization to match operator preference or application requirements. Cylinder rods are hard-plated chrome with polyurethane seals. Relief valve tuned to capacity protects all components in the hydraulic system. Reservoir incorporates an in-tank 10 micron return filter for removing debris from oil.

Drive Unit / Brake
Heavy-duty gearbox with helical spur input gear for quiet operation. Regenerative motor braking is activated during downhill condition, during plugging or when the directional control is returned to neutral. An electro-magnetic brake, spring applied and electrically released, is mounted on top of the drive motor. The electro-magnetic brake serves as the parking brake and applies when the control handle position moves from the operating zone to brake zone during truck operation.

Power Steering
Electronic power steering is provided by a heavy-duty AC motor that pivots the drive unit when steer tiller movement is detected.

Mast
High visibility two and three-stage mast design with angled cross bracing and lift cylinders located behind nested I-beams provides maximum visibility for load positioning and placement. Crown’s staging cushions coupled with lowering dampers ensure smooth operation.

Rolled steel outer mast channels and inner I-beams roll on canted steel, anti-friction roller bearings for minimal current draw and long life. Mast and chain rollers are sealed and lubricated for life. Telescoping mast sections nest to reduce truck length. Heavier mast cross bracing design increases stiffness.

Reach Mechanism
An exclusive reach mechanism design provides unmatched visibility at all rack levels.

Serviceability / Durability
The Access display simplifies service for technicians by providing advanced diagnostics without the need for separate handsets. The display allows the technician to view event service codes and truck hours when event occurred, perform system calibrations or functional tests of components, and make necessary adjustments. Crown’s InfoPoint System compliments Access 1 2 3 diagnostics by providing a Quick Reference Guide, on-truck component maps and information nuggets to further simplify troubleshooting.

All wiring is color coded.

Removable steel power unit doors are hinged for ease of opening providing excellent accessibility to the distribution panel and all other components. Steel covers provide added protection to critical internal components.

Removable steel battery covers and hinged cover allow easy access to the battery. Battery removal can be accomplished from either side. Battery compartment rollers are standard.

The X10 handle incorporates a vacuum die cast process using high-grade aluminum and benefits from structural webbing for maximum strength and durability.

Other Options
1. Amber strobe light
2. Travel alarm: reverse, forward or both

Safety considerations and dangers associated with audible travel alarms and strobe 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.

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.
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.