### SP 3500 Series Specifications

<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th><strong>Imperial</strong></th>
<th><strong>Metric</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Manufacturer</td>
<td>Crown Equipment Corporation</td>
<td></td>
</tr>
<tr>
<td><strong>2</strong> Model</td>
<td>SP 3500-30</td>
<td></td>
</tr>
<tr>
<td><strong>3</strong> Load Capacity*</td>
<td>lb</td>
<td>kg</td>
</tr>
<tr>
<td><strong>4</strong> Load Center</td>
<td>Platform face to load CG</td>
<td>in</td>
</tr>
<tr>
<td><strong>5</strong> Power</td>
<td>Electric</td>
<td>24 Volts</td>
</tr>
<tr>
<td><strong>6</strong> Operator Type</td>
<td>Stand-up Rider</td>
<td>Stockpicker</td>
</tr>
<tr>
<td><strong>7</strong> Tire Type</td>
<td>Load/Drive</td>
<td>Poly / Poly</td>
</tr>
</tbody>
</table>

| **Performance** | | |
| **8** Speed Travel | Empty/Loaded | mph | km/h | See Chart |
| **9** Speed Lift | TL Empty | fpm | m/s | 45 Std, 80 High Speed | 0.225 Std, 0.405 High Speed |
| | TT Empty | fpm | m/s | 40 Std, 71 High Speed | 0.200 Std, 0.360 High Speed |
| | TT Loaded | fpm | m/s | 26 Std, 43 High Speed | 0.130 Std, 0.215 High Speed |
| **10** Speed Lower | TL Empty | fpm | m/s | 40 Low, 80 High | 0.200 Low, 0.405 High |
| | TT Empty | fpm | m/s | 40 Low, 80 High | 0.200 Low, 0.405 High |
| **11** Wheels (x = driven) | Load/Drive | 4 / 1x | |
| **12** Lifting Height | | in | mm | See Charts |
| **13** Forks | Standard | L x W x T | in | mm | 36 x 4 x 2 | 915 x 102 x 51 |
| | Optional Lengths | in | mm | 30, 39, 42, 45, 48, 54, 60, 72, 84 | 760, 990, 1070, 1145, 1220, 1370, 1525, 1830, 2135 |

| **Dimensions** | | |
| **14** Head Length | TL | in | mm | 74.6 | 1895 |
| | TT | in | mm | 75.6 | 1920 |
| **15** Wheel Base | TL | in | mm | 52 | 1320 |
| | TT | in | mm | 51 | 1300 |
| **16** Turning Radius | TL | in | mm | 69 | 1755 |
| | TT | in | mm | 68 | 1735 |

| **Battery** | | |
| **17** Battery | Type | Lead Acid “AA” | Lead Acid “B” |
| | Min Weight/Max Amp | lb | amp | 975 / 660 | 1520 / 1085 |
| | Max Battery Size L x W x H | in | mm | 31.75 x 13.12 x 23.25 | 36.25 x 14.25 x 31 |
| | Connector Location/Length (J) | in | A / 22 | A / 20 |
| | Standard Connector | SB 175 Gray | SB 350 Red |

*Contact factory. Capacity may be subject to derating, depending upon lifting height, load center and fork length.
<table>
<thead>
<tr>
<th><strong>SP 4000 Series</strong> Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
</tr>
<tr>
<td>1 Manufacturer</td>
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<tr>
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<tr>
<td>3 Load Capacity*</td>
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<tr>
<td>4 Load Center</td>
</tr>
<tr>
<td>5 Power</td>
</tr>
<tr>
<td>6 Operator Type</td>
</tr>
<tr>
<td>7 Tire Type</td>
</tr>
<tr>
<td>8 Speed Travel</td>
</tr>
<tr>
<td>9 Speed Lift</td>
</tr>
<tr>
<td>10 Speed Lower</td>
</tr>
<tr>
<td>11 Wheels (x = driven)</td>
</tr>
<tr>
<td>12 Lifting Height</td>
</tr>
<tr>
<td>13 Forks</td>
</tr>
<tr>
<td>14 Head Length</td>
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<tr>
<td>15 Wheel Base</td>
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<tr>
<td>16 Turning Radius</td>
</tr>
<tr>
<td>17 Battery</td>
</tr>
<tr>
<td>18 Battery Size L x W x H in mm</td>
</tr>
<tr>
<td>19 Connector Location/Length (J)</td>
</tr>
<tr>
<td>20 Standard Connector</td>
</tr>
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### SP 3500/4000 Series Specifications

#### Standard Straddle – TT Mast

<table>
<thead>
<tr>
<th>12</th>
<th>Lifting Height</th>
<th>in mm</th>
<th>136</th>
<th>3450</th>
<th>148</th>
<th>3755</th>
<th>172</th>
<th>4365</th>
<th>194</th>
<th>4925</th>
<th>214</th>
<th>5435</th>
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<tbody>
<tr>
<td>18</td>
<td>Collapsed Height</td>
<td>in mm</td>
<td>89.5</td>
<td>2270</td>
<td>95</td>
<td>2410</td>
<td>107</td>
<td>2715</td>
<td>119</td>
<td>3020</td>
<td>131</td>
<td>3325</td>
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<tr>
<td>19</td>
<td>Extended Height</td>
<td>in mm</td>
<td>233</td>
<td>5670</td>
<td>235</td>
<td>5975</td>
<td>259</td>
<td>6585</td>
<td>281</td>
<td>7145</td>
<td>301</td>
<td>7650</td>
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<tr>
<td>20</td>
<td>Straddle Width</td>
<td>in mm</td>
<td>42</td>
<td>1065</td>
<td>42</td>
<td>1065</td>
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<td>1065</td>
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<td>42</td>
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<tr>
<td>21</td>
<td>Operator Compartment Width</td>
<td>in mm</td>
<td>42</td>
<td>1065</td>
<td>42</td>
<td>1065</td>
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<td>1065</td>
<td>42</td>
<td>1065</td>
<td>42</td>
<td>1065</td>
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<tr>
<td>22</td>
<td>Aisle Guide Wheel Range</td>
<td>in mm</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 1156 to 1668</td>
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<td>23</td>
<td>Truck Weight Without Battery</td>
<td>lb</td>
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<td>2332</td>
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<td>263</td>
<td>597</td>
<td>2716</td>
<td>645</td>
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#### Standard Straddle – TT Mast

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<tr>
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<th>195</th>
<th>4950</th>
<th>210</th>
<th>5330</th>
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<td>2270</td>
<td>95</td>
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<td>19</td>
<td>Extended Height</td>
<td>in mm</td>
<td>283</td>
<td>7175</td>
<td>298</td>
<td>7555</td>
<td>328</td>
<td>8320</td>
<td>364</td>
<td>9220</td>
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<tr>
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<td>1065</td>
<td>42</td>
<td>1065</td>
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<td>1065</td>
<td>42</td>
<td>1065</td>
</tr>
<tr>
<td>22</td>
<td>Aisle Guide Wheel Range</td>
<td>in mm</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
<td>1156 to 1668</td>
<td>45.50 to 65.25</td>
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<tr>
<td>23</td>
<td>Truck Weight Without Battery</td>
<td>lb</td>
<td>5704</td>
<td>2592</td>
<td>579</td>
<td>263</td>
<td>597</td>
<td>2716</td>
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#### Standard Straddle – TL Mast

<table>
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<tr>
<th>12</th>
<th>Lifting Height</th>
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<th>294</th>
<th>7465</th>
<th>312</th>
<th>7920</th>
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<th>8380</th>
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<td>3175</td>
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<td>149</td>
<td>3780</td>
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<td>Extended Height</td>
<td>in mm</td>
<td>382</td>
<td>9690</td>
<td>400</td>
<td>10145</td>
<td>418</td>
<td>10605</td>
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<td>11060</td>
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<tr>
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<td>Straddle Width</td>
<td>in mm</td>
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<td>1370</td>
<td>54</td>
<td>1370</td>
<td>54</td>
<td>1370</td>
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<td>1370</td>
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<td>Aisle Guide Wheel Range</td>
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<td>54.75 to 77.25</td>
<td>190</td>
<td>4825</td>
<td>190</td>
<td>4825</td>
<td>190</td>
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<tr>
<td>23</td>
<td>Truck Weight Without Battery</td>
<td>lb</td>
<td>6636</td>
<td>3016</td>
<td>6728</td>
<td>3058</td>
<td>6924</td>
<td>3147</td>
<td>7424</td>
<td>3367</td>
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#### Narrow Straddle – TT Mast

<table>
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<th>12</th>
<th>Lifting Height</th>
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<th>312</th>
<th>7920</th>
<th>330</th>
<th>8380</th>
<th>348</th>
<th>8835</th>
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<tbody>
<tr>
<td>18</td>
<td>Collapsed Height</td>
<td>in mm</td>
<td>125</td>
<td>3175</td>
<td>131</td>
<td>3325</td>
<td>143</td>
<td>3630</td>
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<td>3780</td>
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<td>19</td>
<td>Extended Height</td>
<td>in mm</td>
<td>382</td>
<td>9690</td>
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<td>10145</td>
<td>418</td>
<td>10605</td>
<td>436</td>
<td>11060</td>
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<tr>
<td>20</td>
<td>Straddle Width</td>
<td>in mm</td>
<td>48</td>
<td>1220</td>
<td>48</td>
<td>1220</td>
<td>48</td>
<td>1220</td>
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<td>Operator Compartment Width</td>
<td>in mm</td>
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<td>1220</td>
<td>48</td>
<td>1220</td>
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<td>1220</td>
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<td>Aisle Guide Wheel Range</td>
<td>in mm</td>
<td>48.75 to 71.25</td>
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<td>1125</td>
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<td>1125</td>
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<td>3016</td>
<td>6728</td>
<td>3058</td>
<td>6924</td>
<td>3147</td>
<td>7424</td>
<td>3367</td>
</tr>
</tbody>
</table>

† In 0.25" (6 mm) increments  
†† 48" (1220 mm) straddle width on “AA” battery only  
††† 36V is high capacity when lift height is greater than 240" (6095 mm) unless narrow straddle is selected  
†††† 3/8" (10 mm) skid bar clearance (LH 294" to 330" [7465 to 8380 mm], narrow straddle)  
Extended skid bars added (LH > 330" [8380 mm], narrow straddle)
1. Crown’s Access 1 2 3® Comprehensive System Control
2. Crown’s AC traction control system
3. 24-volt or 36-volt electrical system
4. Electronic steering
5. Linear Height Speed Control
6. Variable Lift/Lower (36V only)
7. Regenerative Lower (36V only)
8. Programmable lift/lower cut-outs
9. Intelligent Braking with low-profile brake pedal
10. Crown Display
   • Battery discharge indicator with lift interrupt
   • Hour meters/travel distance/stop watch
   • PIN code access capable
   • Access 1 2 3 diagnostics
   • P1, P2, P3 Performance
   • Standard steer tire direction indicator (non wire-guided trucks)
   • Enhanced steer tire direction indicator (wire-guided trucks)
11. Soft urethane twist grip with “cam grip”
12. 10° angled steer wheel with soft feel spinner
13. Storage compartment
14. Premium platform cushion
15. Clear visibility platform window
16. Wire mesh screen
17. Key switch
18. Horn
19. LED flashing light
20. Hinged side gates with power disconnect
21. 175 amp battery connector for “AA” battery box
22. 350 amp for “B”, “C”, “D”, and “E” battery boxes
23. 2” (51 mm) diameter battery compartment rollers
24. Top battery access for service
25. Removable steel battery side covers
26. Adjustable battery retainer
27. Hinged, lift off steel power unit doors
28. Corrosion conditioning
29. Emergency power cut-out
30. Retractable tether and body harness
31. Pallet clamp
32. InfoPoint® Quick Reference Guide and Maps
33. Color-coded wiring
34. 6” (152 mm) diameter tandem load wheels
Optional Equipment

1. High-speed travel
2. High-speed lift
3. High capacity
4. Crown wire guidance (broadband technology) operates on all frequencies ranging from 5.2 through 10 kHz without changing components
5. End of Aisle Control System (wire or rail guidance required)
6. Aisle guide wheels for rail guidance
7. Lift motor brush wear and over-rides
8. Battery retainer interlock switch
9. V-Force® Lithium-Ion Ready
10. Electric pallet clamp
11. LED work lights, LED dome light and two-speed fan
12. Additional operator fan
13. Spotlights - LED or Halogen
14. Floor Spotlight - Blue
15. Programmable lift/lower cutouts with over-rides
16. Zone select key switch
17. 48" (1220 mm), 54" (1370 mm), and 60" (1525 mm) wide operator platforms
18. Freezer conditioning (Includes corrosion conditioning, ribbed floor mat, and wire mesh windshield)
19. UL EE Rating
20. Glass windshield
21. Load wheel and drive tire compounds
22. 30" (762 mm) lanyard boom
23. InfoLink® Ready
24. Positive / negative accessory cable
25. Special paint
26. Work Assist® Accessories
   • Storage Bin
   • Clip pad and hook
   • Plate
   • Pocket
27. Fire extinguisher

Operator Platform

The operator area is designed for maximum visibility and stability for increased operator confidence and comfort.

The operator platform features a large window (1088 sq in) (701300 mm²) for excellent visibility. A Crown-designed clear-visibility mast affords the platform window one forward and two peripheral windows for maximum visibility, even when the platform is lowered.

The clear-visibility mast, with full free lift, extends the platform window above the mast channels for unobstructed visibility when raised.

A low-profile power unit, low placement of the lower cross brace and an outer C-channel rail assembly also contribute to excellent visibility.

A soft urethane twist grip is solidly mounted to the truck console to provide excellent stability for the operator during travel, plugging and braking. Controls for lift/lower, horn and emergency disconnect are conveniently located for efficient operation and minimal operator fatigue. The steering wheel is angled at 10° and recessed to maximize the work area and reduce steer effort. The steering wheel and spinner knob are covered with soft urethane to reduce grip force and insulate against vibration. Control location keeps the operator’s posture neutral at all times.

The platform cushion, made of a microcellular composition, absorbs shock and vibration. The brake pedal has a low-profile design and when engaged is flush with the platform cushion for maximum comfort. Heavy-duty side gates, with two horizontal and one vertical support rails, communicate security to the operator. For additional safety, cut-out switches disengage truck operation when side gates are raised.

Two work lights, two dome lights and a two-speed fan are optional. “Power-on” key prevents unauthorized operation of the truck. The Access 1 2 3® Display Panel provides concise, clear feedback for the operator during truck operation.

Crown’s Access 1 2 3®...

The Comprehensive Access 1 2 3 System Control is a modular based communications and control system. It monitors all on-board sensors, makes decisions based on the sensor readings, and subsequently, controls all system movements safely and smoothly. All five modules are in constant communications with each other via a CAN (Control Area Network) bus so that real information is accessible to the system at all times.

• Interactive Display Module
• Traction Control Module
• Vehicle Control Module
• Steering Control Module
• Guidance Control Module

Crown Drive System

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. A Crown-manufactured drive unit uses spiral bevel and helical gears from motor to drive wheel axle.

Fixed, mounted drive motor does not rotate minimizing wear on electrical cables. Drive tire changing is simplified with this drive unit.

Crown’s AC Drive system dramatically improves travel speeds, acceleration and deceleration, thus increasing productivity.

The standard linear speed control provides smooth travel speed transition as lift heights change and increases productivity.

Travel System

Truck performance specifications (maximum travel speed, coast, plugging, acceleration, travel speed at height, and low speed lowering) are adjustable using Access 1 2 3. This enables customizing truck performance to meet specific application or operator requirements.

Crown’s InfoPoint system offers evolutionary refinement for service simplicity. The InfoPoint Quick Reference Guide, on-truck component maps and information nuggets located throughout the truck allow technicians to troubleshoot without schematics, wiring diagrams, or service manuals for more than 95 percent of repairs.

The InfoPoint Quick Reference Guide provides code definition and overall component ID so the technician knows what it is, where it is, and what it does (Three W’s). InfoPoint ensures faster, simpler, and higher quality service.

Intelligent Steering

Standard on the SP 3500/SP 4000 Series is electronic steering that is microprocessor based.

Crown’s intelligent steering feature slows the truck automatically when the steer wheel is turned beyond 10°. Access 1 2 3 monitors the height of the operator platform, truck speed and steer wheel position.

Steering wheel rotation provides smooth, operator feedback. Steer effort is minimal, lock to lock revolutions is 4.5 turns. Drive wheel rotates a full 180° for maximum maneuverability. Auto centering drive tire for trucks equipped with rail guidance.

Steering is connected to the Control System for full diagnostics and operator interface.
Intelligent Braking
Crown’s patented Intelligent Braking combines motor braking with optimum amounts of friction braking (three varying levels of force). The appropriate level of braking is applied dependent upon platform height, direction of travel, and truck weight. Braking force is automatically reduced as height increases and speed decreases. Optimum braking for the right elevation gives operators more confidence and better control, while eliminating abrupt stops and reducing platform sway. Brake lining life can be expected to last up to twice as long before replacement is necessary.

Braking can also be accomplished by proportional plugging, which permits the operator to control the rate of deceleration when extended stopping distance is preferred.

Simplified Hydraulics
Heavy-duty series wound pump motors and gear pumps are assembled into an integral unit. Variable lift and lower is standard on SP 4000. High speed lift is 36" (915 mm). Optional lengths available.

SP 3500/4000 Series

Stronger Low Profile Power Unit
Power unit is fabricated from heavy-gauge steel. Lower skirt is 0.75" (19 mm) steel that runs 9" (228 mm) high for component protection. Rugged steel doors suspended on heavy-duty pin hinges cover power unit componentry. Doors swing wide for open access. Doors can also be lifted off for unrestricted service access. Door bolts have exclusive convex design that mates with concave door holes for fast reinstallation of door bolts. Battery side covers are all steel. An optional battery retainer interlock switch is available. Top battery access is available by lifting cover. Cover has integral support post.

Wheels and Tires
Polyurethane drive tire, 13" (330 mm) diameter x 5.5" (140 mm) wide x 8" (203 mm) hub diameter. Tandem load wheels are 6" (152 mm) diameter polyurethane x 2.8" (70 mm) wide (4.25" (108 mm) wide for high capacity trucks). Optional polyurethane aisle guide wheels are 2" (51 mm) wide and 2.5" (64 mm) diameter.

Forks
2" (51 mm) thick x 4" (102 mm) wide forged steel. Fork spread (adjustable) 24" (610 mm) to 30" (760 mm). Standard length is 36" (915 mm). Optional lengths available.

Pallet Clamp
Standard equipment includes a foot-applied, hand-released pallet clamp designed for use with pallets having center stringers.

Warning Device Options
Audible or Visual Alerts
Safety considerations and dangers associated with audible travel alarms and 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 factory for additional options.

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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New Bremen, Ohio 45869 USA
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Fax 419-629-3796
crown.com

Technical Information

Crown Equipment Corporation in the United States and other countries.

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Simplified Hydraulics
Heavy-duty series wound pump motors and gear pumps are assembled into an integral unit. Variable lift and lower is standard on SP 4000. High speed lift is 36" (915 mm). Optional lengths available.

SP 3500/4000 Series

Stronger LowProfile Power Unit
Power unit is fabricated from heavy-gauge steel. Lower skirt is 0.75" (19 mm) steel that runs 9" (228 mm) high for component protection. Rugged steel doors suspended on heavy-duty pin hinges cover power unit componentry. Doors swing wide for open access. Doors can also be lifted off for unrestricted service access. Door bolts have exclusive convex design that mates with concave door holes for fast reinstallation of door bolts. Battery side covers are all steel. An optional battery retainer interlock switch is available. Top battery access is available by lifting cover. Cover has integral support post.

Wheels and Tires
Polyurethane drive tire, 13" (330 mm) diameter x 5.5" (140 mm) wide x 8" (203 mm) hub diameter. Tandem load wheels are 6" (152 mm) diameter polyurethane x 2.8" (70 mm) wide (4.25" (108 mm) wide for high capacity trucks). Optional polyurethane aisle guide wheels are 2" (51 mm) wide and 2.5" (64 mm) diameter.

Forks
2" (51 mm) thick x 4" (102 mm) wide forged steel. Fork spread (adjustable) 24" (610 mm) to 30" (760 mm). Standard length is 36" (915 mm). Optional lengths available.

Pallet Clamp
Standard equipment includes a foot-applied, hand-released pallet clamp designed for use with pallets having center stringers.

Warning Device Options
Audible or Visual Alerts
Safety considerations and dangers associated with audible travel alarms and 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 factory for additional options.

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 Equipment Corporation
New Bremen, Ohio 45869 USA
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Technical Information

Crown Equipment Corporation in the United States and other countries.

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Intelligent Braking
Crown’s patented Intelligent Braking combines motor braking with optimum amounts of friction braking (three varying levels of force). The appropriate level of braking is applied dependent upon platform height, direction of travel, and truck weight. Braking force is automatically reduced as height increases and speed decreases. Optimum braking for the right elevation gives operators more confidence and better control, while eliminating abrupt stops and reducing platform sway. Brake lining life can be expected to last up to twice as long before replacement is necessary.

Braking can also be accomplished by proportional plugging, which permits the operator to control the rate of deceleration when extended stopping distance is preferred.

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