Specifications
Four Wheel Counterbalance Truck
SC 6000 Series

Four Wheel Counterbalance Truck

82.9" (2105 mm)
Standard Overhead Guard

78.4" (1990 mm)
Low Overhead Guard
**Imperial** | **Metric** | **Imperial** | **Metric**
--- | --- | --- | ---
1. **Manufacturer** | Crown Equipment Corporation | SCF 604X | SCF 604X
2. **Model** | SCF 604X | 1.6 | 1.8
3. **Load Capacity** | lb | 3525 | 1600
4. **Load Center** | in | 24 | 600
5. **Power** | Electric | Battery
6. **Operator Type** | Sit-down Rider | Counterbalanced
7. **Tire Type** | Super Elastic / SE | 2x2
8. **Wheels (x = driven)** | Number Front/Rear | 2x2
9. **Lift Height** | See Table 1 | See Table 1
10. **Mast** | Extended Height | See Table 1
11. **Free Lift** | w/wo Load Backrest | See Table 1
12. **Fork Carriage** | ISO/FEM 2A | 2A
13. **Fork Carriage Width** | w/wo Load Backrest | in mm | 39 / 38 | 990 / 965 | 39 / 38 | 990 / 965
14. **Headlength** | in mm | 80.9 | 2055 | 81.2 | 2062
15. **Overall Width** | in mm | 42.1 | 1070 | 44.4 | 1129
16. **Mast** | Collapsed Height | See Table 1 | 80.9 | 2055 | 81.2 | 2062
17. **Turning Radius** | in mm | 67.3 | 1709 | 67.3 | 1709
18. **Load Distance** | in mm | 14.2 | 360 | 14.4 | 366
19. **Working Aisle Width** | Minimum | See Table 2 | 14.2 | 360 | 14.4 | 366
20. **Weight** | Less Battery | lb | 6028 | 2734 | 6048 | 2743
21. **Axle Load** | w/wo Load Front/Rear | lb | 9519 / 1828 | 4317 / 829 | 10300 / 1510 | 4671 / 685
22. **Wheelbase** | in mm | 56.7 | 1439 | 56.7 | 1439
23. **Track Width** | Load Side | in mm | 36.2 | 919 | 36.3 | 922
24. **Max Gradeability** | w/wo Load (Intermit) | % | 24.6 / 37.3 | 23.5 / 37.2
25. **Batteries** | Number Front/Rear | 2 / 2 | 2 / 2
26. **Traction Motor** | kW | 2 x 5.5 | 2 x 5.5
27. **Lift Motor** | kW | 11.2 | 11.2
28. **Battery Voltage** | V | 48 | 48
29. **Battery Weight** | Min / Max | lb | 1793 / 1961 | 814 / 898 | 1793 / 1961 | 814 / 898
30. **Max Battery Box Size** | DIN 43531 | Length | in mm | 24.8 | 630 | 24.8 | 630
31. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
32. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric
33. **Battery Floor Height** | w/wo Rollers | in mm | 8.3 / 8.0 | 210 / 204 | 8.3 / 8.0 | 210 / 204
34. **Tire Type** | Super Elastic / SE | 2x2
35. **Wheels (x = driven)** | Number Front/Rear | 2x2
36. **Spreader Bar** | Number Front/Rear | 2x2
37. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
38. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric
39. **Battery Floor Height** | w/wo Rollers | in mm | 8.3 / 8.0 | 210 / 204 | 8.3 / 8.0 | 210 / 204
40. **Tire Type** | Super Elastic / SE | 2x2
41. **Wheels (x = driven)** | Number Front/Rear | 2x2
42. **Spreader Bar** | Number Front/Rear | 2x2
43. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
44. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric
45. **Battery Floor Height** | w/wo Rollers | in mm | 8.3 / 8.0 | 210 / 204 | 8.3 / 8.0 | 210 / 204
46. **Battery Weight** | Min / Max | lb | 1793 / 1961 | 814 / 898 | 1793 / 1961 | 814 / 898
47. **Max Battery Box Size** | DIN 43531 | Length | in mm | 24.8 | 630 | 24.8 | 630
48. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
49. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric
50. **Battery Floor Height** | w/wo Rollers | in mm | 8.3 / 8.0 | 210 / 204 | 8.3 / 8.0 | 210 / 204
51. **Tire Type** | Super Elastic / SE | 2x2
52. **Wheels (x = driven)** | Number Front/Rear | 2x2
53. **Spreader Bar** | Number Front/Rear | 2x2
54. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
55. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric
56. **Battery Floor Height** | w/wo Rollers | in mm | 8.3 / 8.0 | 210 / 204 | 8.3 / 8.0 | 210 / 204
57. **Tire Type** | Super Elastic / SE | 2x2
58. **Wheels (x = driven)** | Number Front/Rear | 2x2
59. **Spreader Bar** | Number Front/Rear | 2x2
60. **Brake** | Service | Foot - Motor | Service | Foot - Motor | Service | Foot - Motor
61. **Brake** | Park | Auto - Electric | Park | Auto - Electric | Park | Auto - Electric

* Add 1.4" (36 mm) for Crown integrated sideshift, add 2.3" (59 mm) for hook on sideshift
** Travel speed reduction applicable to trucks with lift height above 89" (2260 mm) collapsed height
### Specifications

<table>
<thead>
<tr>
<th>SC 6000 Series</th>
<th><strong>Imperial</strong></th>
<th><strong>Metric</strong></th>
</tr>
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<tbody>
<tr>
<td><strong>Manufacturer</strong></td>
<td>Crown Equipment Corporation</td>
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<tr>
<td><strong>Model</strong></td>
<td>SCF 606X</td>
<td>SCF 606X</td>
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<td><strong>Load Capacity</strong></td>
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<td><strong>Power</strong></td>
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<td><strong>Tire Type</strong></td>
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<td>kg</td>
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<tr>
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<td>ISO/FEM</td>
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<tr>
<td><strong>Fork Carriage Width</strong></td>
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<td><strong>Battery Floor Height</strong></td>
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<tr>
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<td><strong>Lift Motor</strong></td>
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* Add 1.4" (36 mm) for Crown integrated sideshift, add 2.3" (59 mm) for hook on sideshift
** Travel speed reduction applicable to trucks with lift height above 89" (2260 mm) collapsed height
### Table 1

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Lift Height in mm</th>
<th>Extended Ht w/o LBR in mm</th>
<th>Extended Ht w LBR in mm</th>
<th>Free Lift in mm</th>
<th>Tilt – F/B degree</th>
<th>Collapsed Ht in mm</th>
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<td>17</td>
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<td>1955</td>
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<td>2260</td>
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* 5/3 with front panel (windshield)
** Not available on SCF 606X-2.0

### Table 2

<table>
<thead>
<tr>
<th>Working Aisle Width</th>
<th>Y</th>
<th>X</th>
<th>38 Wheelbase</th>
<th>22 Load Distance</th>
<th>21 Turning Radius</th>
<th>23 Aisle Width according to VDI 2198</th>
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<tr>
<td>SCF 604X-1.6</td>
<td>56.7</td>
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<td>16.7</td>
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<td>16.7</td>
<td>366</td>
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**Standard Equipment**
1. Crown's Access 1 2 3rd Comprehensive System Control
2. InfoPoint® System
3. Crown-manufactured AC drive and AC lift motors
4. e-GEN® Braking System with automatic parking brake
5. Intrinsic Stability System®
   - Travel speed reduction and appropriate electronic brake control when forks are above free lift
   - Forward tilt interlock reduces forward tilt above free lift to maximize stability
   - Controlled tilt speeds
   - Counterweight exceeds required standards
   - Cornering speed control
   - Ramp hold
   - Ramp speed control
6. Driveability standard features
   - 14.8” (375 mm) step height
   - Large, unobstructed floorboard
   - Non-slip rubber floor mat
   - Automotive type rubber covered accelerator and brake pedals
   - Automatic parking brake (seat activated)
   - Large, entry/exit “window”
   - Entry/exit to both sides
   - Rounded edges on battery cover for easy entry/exit
   - Comfort suspension safety seat MSG 65 vinyl with hip restraint
   - High visibility orange anti-cinch safety belt
   - Storage tray on seatdeck
   - Compact steering column and small steering wheel
   - Spinner knob with grips
   - Infinitely adjustable tilt steering column
   - Operator-forward design for enhanced visibility
   - Low dashboard for fork and floor visibility
7. Crown display
   - Battery discharge indicator with lift interrupt and re-key feature
   - Hour meters / travel distance / stop watch
   - Pin code access capable
   - Event code display with five (5) key navigation
   - Access 1 2 3 diagnostics
   - P1, P2, P3 Performance tuning
8. 48 volt system
9. 48” (1220 mm) high load backrest
10. SB 350 battery connector
11. DIN 43531 battery compartment sizes
12. Side extraction battery access
13. XTreme 15” Super Elastic steer tires
14. XTreme 18” Super Elastic drive tires
15. SIT Tires, one piece rim without taper, rim flange or locking ring
16. On-demand power steering
17. Cab-ready overhead guard design with entry/exit grab bar
18. 82.9” (2105 mm) overhead guard height
19. No tool lift out floorboards for service access
20. High visibility mast with in-line hose routing
21. Smooth lift and lower transition through mast staging
22. O-ring face seal hydraulic fittings
23. Tilting mast
24. Tow pin
25. Static Return to On (Directional lever to neutral after seat is empty)
   - SC 6040/6060 (Off)
   - SC 6041/6061 (On)
26. Rear view mirror
27. Storage bin (magnetic mount)
28. Work Assist® Accessories
   - Clip pad and hook
   - Clamp
   - Clamp and mounting plate
   - Storage pocket
29. Seat belt interlock
30. Optional paint colors
31. Dock Performance package
32. Battery retainer switch
33. Front panel (windshield)
34. Top panel (laminate glass)
35. Front and top panel (tempered glass)
36. All - top, front and rear panels (tempered glass)
37. Front panel tempered glass (windshield with wiper/washer and top panel (laminate glass)
38. Front panel (windshield) with wiper/washer, top panel, and heated rear panel with rear wiper/washer
39. Soft cabin (complete) with hard door ready
40. Hard cabin (complete) with fork panel tempered glass (windshield) with wiper/washer, top panel, and heated rear panel wiper/washer and hard doors.
41. Soft cabin (complete) with hard door ready
42. Cabin heater. Lower right side mounted cabin heater with a 3-speed fan. Five adjustable outlets: foot, operator and defrost.

**Optional Equipment**
1. TL, TF, TT and Quad mast styles
2. D4 Armrest
   - One-handed fore/aft and up/down adjustment
   - Integrated horn button
   - Available with one of four bionic control options with integrated directional control - Fingertip - Dual-Lever - Mini-Lever - Combination
   - Also available without bionic control options for use with manual levers
3. Battery rollers for side extraction
4. DIN A 160 battery connector
5. SBE 320 battery connector
6. QuickCharge (1 or 2 connectors on seat deck)
7. V-Force® Lithium-Ion Ready
8. Lift Position Assist TPA
   - Allows forks to stop in vertical position
9. Auxiliary mast hydraulics
   - Single function
   - Double function, with 4 spool valve and accessory plumbing
10. Single or double quick disconnect hydraulic connectors
11. Hook-on or integrated sidemounted backrest
12. Hook-on fork positioner
13. Various fork lengths and backrest heights
14. Choice of tires
   - Non-marking super elastic tires
   - Continental 18” super elastic tires
15. Rear mud flaps
16. Suspension seat fabric
17. Freezer conditioning
18. Low overhead guard, 73.4” (1900 mm) high
19. Drive-In racking OHG
20. Plexiglass roof panel
21. Light packages
   - Interior dome light
   - Work lights
   - Flashing lights
   - Brake, tail and back-up light
   - LED Travel light package
     - Headlights
     - Dipped/low beam
     - Turn / indicator lights
     - Hazard flashing lights
     - Tail lights at lower rear
22. InfoLink® Ready
23. 48 Volt accessory cable
24. Audible travel alarm
25. Sunshade
26. Rear view mirror
27. Storage bin (magnetic mount)
28. Work Assist® Accessories
   - Clip pad and hook
   - Clamp
   - Clamp and mounting plate
   - Storage pocket
29. Seat belt interlock
30. Optional paint colors
31. Dock Performance package
32. Battery retainer switch
33. Front panel (windshield)
34. Top panel (laminate glass)
35. Front and top panel (tempered glass)
36. All - top, front and rear panels (tempered glass)
37. Front panel tempered glass (windshield with wiper/washer and top panel (laminate glass)
38. Front panel (windshield) with wiper/washer, top panel, and heated rear panel with rear wiper/washer
39. Soft cabin (complete) with hard door ready
40. Hard cabin (complete) with fork panel tempered glass (windshield) with wiper/washer, top panel, and heated rear panel wiper/washer and hard doors.
41. Soft cabin (complete) with hard door ready
42. Cabin heater. Lower right side mounted cabin heater with a 3-speed fan. Five adjustable outlets: foot, operator and defrost.

**Driveability**

The SC 6000 Series incorporates numerous design features to improve operator comfort and productivity. On-demand power steering is served by the main hydraulic pump when steering is requested. Steering system with equal area and double-acting cylinder provides an equally responsive steering rate both ways.

A large step positioned at a low height of only 14.8” (375 mm) aids entry/exit on both sides of the truck. The narrow, offset tilt steer column and steer wheel further facilitate entry/exit. Floorboards are large, unobstructed and rubber covered to insulate the operator from vibration. Brake and accelerator pedals are rubber covered to provide good grip and comfort.

**Technical Information**

25. Sunshade
26. Rear view mirror
27. Storage bin (magnetic mount)
28. Work Assist® Accessories
   - Clip pad and hook
   - Clamp
   - Clamp and mounting plate
   - Storage pocket
29. Seat belt interlock
30. Optional paint colors
31. Dock Performance package
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Several designs contribute to better visibility everywhere you look. A low dashboard for fork visibility, a slim overhead guard with upper unobstructed window for load handling at height, a high visibility mast and a compact steer column all improve operator visibility around the truck.

Hydraulic controls allow easy blending of hydraulic functions. The manual levers are urethane covered with tactile feedback for comfort and easy selection. Control actuation forces are minimal and responsive.

**Crown Drive System**

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. The demand for high efficiency systems that closely match customer torque requirements is met with this latest generation control system.

Crown-manufactured, independently controlled, AC drive motors are specifically designed to optimize system integration between the traction and braking controls.

Crown’s Access 1 2 3 technology provides optimum performance and control by offering a communication interface for operators and technicians, intelligent coordination of lift truck system and simplified service with advanced diagnostics.

The Crown display is used for easy troubleshooting, access service history and set performance features. Three modes of performance can be selected to accommodate operator experience or application requirements.

**e-GEN® Braking System**

Variable regenerative motor braking is optimized and assisted with electric friction brakes, eliminating maintenance associated with typical wet, disk or drum style brakes. The appropriate amount of stopping force is applied to match operator brake input and the current operating conditions of the truck.

The closed loop Access 1 2 3 traction control will automatically maintain truck control until travel input is requested, even when operating on a ramp.

Automatic electric parking brakes activate when the operator leaves the seat, a travel input has not been requested or battery power has been disconnected.

**Steering System**

The rugged axle frame, forged spindle and connecting links eliminate the need for adjustment. A two-piece spindle and kingpin with tapered roller bearings improves life and serviceability. Spherical bearings with straight pins in the connecting links eliminate any play in the linkage. All bearing locations are sealed to exclude contaminants and are equipped with lubrication fittings for ease of service.

The steering geometry is matched to the controller to deliver smooth steering at all angles. The advantage is less tire scrubbing which extends tire life. Both motors receive power, even in the tightest turns. This helps the truck to accelerate, turn and maneuver even from a full turn start position. Cornering speed control regulates the drive motor’s output by the turning degree of the truck. The advantage is smooth, stable steering which may increase operator confidence and productivity.

**Hydraulics**

Low noise hydraulic pump serves both lift and steer systems. The hydraulic system provides continuous filtration through suction filter and easy to service return filter. Hydraulic actuation is precise and oil is controlled using metered spool valves. 3 spool valve for lift/low, tilt and an auxiliary function is standard and features an integrated pressure relief valve for system protection. A pressure compensation lowering valve ensures safe controlled lowering speeds.

Ram displacement type lift cylinders and two double acting tilt cylinders are Crown-manufactured and designed for long life. All rams and piston rods are hard chrome plated to reduce pitting corrosion and extend cylinder packing life. O-ring face seal fittings are used to eliminate leaks.

**Mast Assembly**

Crown-manufactured three-stage mast assembly utilizes a “flush-face” interlocked I-beam design to improve visibility and reduce truck length. Roller bearing studs are welded on both sides of the rails for maximum strength and roller bearings are canted to run in the thick cross section of the rail. High strength steel mast sections with sealed-for-life rollers are constructed for low mast deflection and high rigidity. Tie bars wrap around the rails for added strength and to resist off-center load forces.

“In-line” hose routing opens up visibility. Cylinders are placed behind the rails to create a high visibility design. The mast has four points of attachment to the truck for good load force distribution. Two mounting points are at the frame, where tilt cylinders attach. Tilt cylinders use spherical bushings to resist off-center load distortions. Two large diameter spherical bearings secure the mast to the drive units.

The Crown-manufactured mast offers quiet lift transition through staging while lifting and lowering. Anti-rattle devices reduce mast noise when traveling on uneven surfaces.

A range of mast types are available:

- **TL** offers maximum visibility through the mast by eliminating the inner free lift cylinder.
- **TF** offers widest visibility window with full free lift capability.
- **TT** offers maximum flexibility with full free lift capability.
- The Quad mast offers maximum lift height at lowest collapsed height.

**Drive Units**

Two independent drive units are manufactured by Crown. The heavy duty drive unit gears are constantly lubricated in an oil bath. This time proven design is quiet and reliable, providing years of trouble-free service.

**Battery Access**

Seal deck with latch can be easily lifted for excellent battery access. Seat deck is supported by gas struts and stays vertically. A lift out battery door is standard. A battery switch prevents unintentional operation, when battery door is not properly fitted.

**Battery Transfer System BTS**

The patent pending BTS System is optionally available. This unique manually powered system allows fastest and safest battery exchange within minutes for extended operating hours or continuous truck operation by exchanging spare batteries.

**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 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.
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.