

**CROWN**

# **SC 5200** SERIES

## **Specifications**

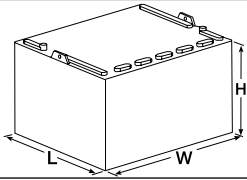
Sit-Down Rider Lift Truck





# SC 5200 Series

# Specifications

|                     |                      |   | Imperial                      | Metric  | Imperial                           | Metric   | Imperial                           | Metric   |   |   |           |
|---------------------|----------------------|---|-------------------------------|---|------------------------------------|--|------------------------------------|--|---|---|-----------|
| General Information | 1                    | Manufacturer  | Crown Equipment Corporation   |   |                                    |  |                                    |  |   |   |           |
|                     | 2                    | Model   | SC                            |   | 521X-30                            |  | 522X-30                            |  | 522X-35                                       |   |           |
|                     | 3                    | Load Capacity*  | Rated to 154" (3911 mm)       | lb kg   | 3000                               | 1361   | 3000                               | 1361   | 3500  | 1588  |           |
|                     | 4                    | Load Center   | Fork Face to Load CG          | in mm   | 24                                 | 600  | 24                                 | 600  | 24  | 600   |           |
|                     | 5                    | Power   | Electric                      |   |                                    |  |                                    |  |   |   |           |
|                     | 6                    | Operator Type   | 36/48 Volts<br>Sit-down Rider |   |                                    |  |                                    |  |   |   |           |
|                     | 7                    | Tire Type   | Press-on Solid<br>Cushion     |   |                                    |  |                                    |  |   |   |           |
|                     | 8                    | Wheels (x = driven)   | Number Front/Rear<br>2x/2     |   |                                    |  |                                    |  |   |   |           |
| Dimensions          | 9                    | Mast**  | Lifting Height                | in mm   | 190                                | 4825   | 190                                | 4825   | 190   | 4825  |           |
|                     | 11                   |   | Free Lift Height†             | in mm   | 35                                 | 885  | 35                                 | 885  | 35  | 885   |           |
|                     | 12                   | Fork Carriage   | ITA Class II                  |   |                                    |  |                                    |  |   |   |           |
|                     | 13                   | Forks   | Standard L x W x T            | in mm   | 36x4x1.5                           | 915x102x38   | 36x4x1.5                           | 915x102x38   | 36x4x1.75                                     | 915x102x45  |           |
|                     |                      |   | Optional Lengths              | in mm   | 30, 39, 42, 45, 48, 54, 60, 63, 72 | 760, 990, 1065, 1145, 1220, 1370, 1525, 1600, 1830 | 30, 39, 42, 45, 48, 54, 60, 63, 72 | 760, 990, 1065, 1145, 1220, 1370, 1525, 1600, 1830 | 30, 32, 39, 40, 42, 43.31, 45, 48, 54, 60, 72 | 760, 815, 990, 1015, 1065, 1100, 1145, 1220, 1370, 1525, 1830 |           |
|                     |                      |   | Fork Spread—Min/Max           | in mm   | 9/33                               | 230/840  | 9/33                               | 230/840  | 9/33  | 230/840   |           |
|                     | 14                   | Tilt  | B°/F°                         | degree  | 5/5                                |  |                                    |  |   |   |           |
|                     | 15                   | Headlength***   |                               |   | in mm                              | 68.5   | 1740                               | 72.8   | 1849  | 73.0  | 1854      |
|                     | 16                   | Width Overall   | Standard Tread                | in mm   | 42.0                               | 1067   | 42.0                               | 1067   | 42.0  | 1067  |           |
|                     | 17                   | Height  | Mast Collapsed                | in mm   | 83                                 | 2110   | 83                                 | 2110   | 83  | 2110  |           |
|                     |                      |   | Mast Extended†                | in mm   | 238                                | 6045   | 238                                | 6045   | 238   | 6045  |           |
|                     | 20                   | Seat to Bottom of OHG Clearance (Loaded)  | Std / Suspension              | in mm   | 39.06/38.69                        | 992/982  | 39.06/38.69                        | 992/982  | 39.06/38.69                                   | 992/982   |           |
| 21                  | Turning Radius       |   |                               | in mm   | 54.2                               | 1377   | 58.5                               | 1486   | 58.5  | 1486  |           |
| 22                  | Load Distance***     | Wheel Cntr to Fork Face   | in mm                         | 14.3  | 365                                | 14.3   | 365                                | 14.5   | 370   |   |           |
| 23                  | Aisle Width          | Right Angle Stack   | in mm                         | Turn Radius + Load Distance + Load Length + Clearance |                                    |  |                                    |  |   |   |           |
| Performance         | 24a                  | Speed Travel††  | 36V                           | Empty/Loaded  | mph mm/s                           | 8.5/7.6  | 3800/3398                          | 8.5/7.6  | 3800/3398                                     | 8.5/7.6   | 3800/3398 |
|                     | 24b                  |   | 48V                           | Empty/Loaded  | mph mm/s                           | 9.5/8.9  | 4247/3979                          | 9.5/8.9  | 4247/3979                                     | 9.5/8.9   | 4247/3979 |
|                     | 25a                  | Speed Lift††  | 36V DC                        | Empty/Loaded  | fpm mm/s                           | 90/63  | 457/320                            | 90/63  | 457/320                                       | 90/60   | 457/305   |
|                     | 25b                  |   | 36V AC                        | Empty/Loaded  | fpm mm/s                           | 110/72   | 559/366                            | 110/72   | 559/366                                       | 110/69  | 559/351   |
|                     | 25c                  |   | 48V AC                        | Empty/Loaded  | fpm mm/s                           | 110/77   | 559/391                            | 110/77   | 559/391                                       | 110/75  | 559/381   |
|                     | 26a                  | Speed Lower   | Manual                        | Empty/Loaded  | fpm mm/s                           | 90/90  | 457/457                            | 90/90  | 457/457                                       | 90/90   | 457/457   |
| 26b                 | EPV                  |   | Empty/Loaded                  | fpm mm/s  | 100/100                            | 508/508  | 100/100                            | 508/508  | 100/100                                       | 508/508   |           |
| Weight              | 32                   | Weight, Less Battery  |                               |   | lb kg                              | 6149   | 2790                               | 5974   | 2710  | 6216  | 2820      |
|                     | 33                   | Axle Load with Max Battery  | Unloaded Front                | lb kg   | 4047                               | 1835   | 4300                               | 1950   | 4316  | 1960  |           |
|                     | 34                   |   | Unloaded Rear                 | lb kg   | 3852                               | 1745   | 3924                               | 1780   | 4150  | 1880  |           |
| Chassis             | 35                   | Tires   | Number Front/Rear             |   | 2/2                                |  |                                    |  |   |   |           |
|                     | 36                   |   | Size Front                    | in mm   | 18x7x12.1                          | 457x178x307  | 18x7x12.1                          | 457x178x307  | 18 x 7 x 12.1                                 | 457x178x307   |           |
|                     | 37                   |   | Size Rear                     | in mm   | 15x5x11.25                         | 381x127x286  | 15x5x11.25                         | 381x127x286  | 15x5x11.25                                    | 381x127x286   |           |
|                     | 38                   | Wheelbase   |                               |   | in mm                              | 46.2   | 1173                               | 50.5   | 1283  | 50.5  | 1283      |
|                     | 39                   | Tread Width   | Front                         | in mm   | 35.0                               | 889  | 35.0                               | 889  | 35.0  | 889   |           |
|                     |                      |   | Rear                          | in mm   | 6.7                                | 170  | 6.7                                | 170  | 6.7   | 170   |           |
|                     | 40                   | Ground Clearance, Loaded  | Lowest Point                  | in mm   | 3.0                                | 76   | 3.0                                | 76   | 3.0   | 76  |           |
|                     | 41                   |   | Center of Wheelbase           | in mm   | 4.8                                | 122  | 5.0                                | 127  | 5.0   | 127   |           |
|                     | 42                   | Grade Clearance, Loaded   |                               |   | %                                  | 27.1   |                                    | 24.6   |   | 24.6  |           |
|                     | 43                   | Brakes  | Service                       | Foot - Motor / Electric Assist                        |                                    |  |                                    |  |   |   |           |
| Parking             |                      |   | Auto - Electric               |   |                                    |  |                                    |  |   |   |           |
| Battery             | 45                   | Battery   | Type                          |   | Lead Acid                          |  |                                    |  |   |   |           |
|                     | 46                   |  | Capacity                      | AH  | 510                                |  | 680                                |  | 680   |   |           |
|                     |                      |   |                               | kWh   | 17.8                               |  | 23.7                               |  | 23.7  |   |           |
|                     |                      |   | Weight - Min                  | lb kg   | 1475                               | 670  | 1850                               | 840  | 1850  | 840   |           |
|                     |                      |   | Weight - Max                  | lb kg   | 1750                               | 795  | 2250                               | 1025   | 2250  | 1025  |           |
|                     |                      |   | Size - Max                    | Length  | 16.63                              | 422  | 20.87                              | 530  | 20.87   | 530   |           |
|                     |                      | Width   | 38.81                         | 986   | 38.81                              | 986  | 38.81                              | 986  |   |   |           |
|                     | Height               | 22.63 †††   | 579 †††                       | 22.63 †††   | 579 †††                            | 22.63 †††  | 579 †††                            |  |   |   |           |
| 48                  | Battery Floor Height | With Rollers/ w/o Rollers   | in mm                         | 10.4/9.8  | 264/249                            | 10.4/9.8   | 264/249                            | 10.4/9.8   | 264/249                                       |   |           |
| Motors              | 49                   | Motors  | Traction Motor, dia           | in mm   | 7.5                                | 191  | 7.5                                | 191  | 7.5   | 191   |           |
|                     | 50                   |   | Lift Motor, dia               | in mm   | 6.7                                | 170  | 6.7                                | 170  | 6.7   | 170   |           |
| 51                  | Operating Pressure   | For Attachments   | psi bar                       | Up to 3100  | Up to 214                          | Up to 3100   | Up to 214                          | Up to 3100   | Up to 214                                     |   |           |

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact your local dealer.

\*\* Other mast heights available. See chart for other standard mast heights.

\*\*\* Add 4.25" (108 mm) for quad masts, add 2" (51 mm) for sideshift option.

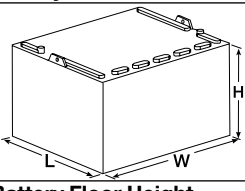
† Includes load backrest.

†† Performance specifications are based on a truck equipped with a 190" (4825 mm) triple telescopic mast.

††† Without Battery Comp't Rollers - Max battery height is 23.29" (592 mm) at the battery center lifting eye and 22.63" (575 mm) at the battery front corner.  
With Battery Comp't Rollers - Max battery height is 22.80" (579 mm) at the battery center lifting eye and 22.14" (562 mm) at the battery front corner.

**SC 5200 Series**

**Specifications**

|                     |                                |   | Imperial  | Metric  | Imperial  | Metric  |   |
|---------------------|--------------------------------|---|---|---|---|---|---|
| General Information | 1                              | <b>Manufacturer</b>   | Crown Equipment Corporation                           |   |   |   |   |
|                     | 2                              | <b>Model</b>  | SC  | 524X-35                                       | 524X-40   |   |   |
|                     | 3                              | <b>Load Capacity*</b>   | Rated to 154" (3911 mm) lb kg                         | 3500  | 1588  | 4000  | 1814  |
|                     | 4                              | <b>Load Center</b>  | Fork Face to Load CG in mm                            | 24  | 600   | 24  | 600   |
|                     | 5                              | <b>Power</b>  | Electric  | 36/48 Volts                                   |   |   |   |
|                     | 6                              | <b>Operator Type</b>  |   | Sit-down Rider                                |   |   |   |
|                     | 7                              | <b>Tire Type</b>  | Press-on Solid  | Cushion                                       |   |   |   |
|                     | 8                              | <b>Wheels (x = driven)</b>  | Number Front/Rear                                     | 2x/2  |   |   |   |
| Dimensions          | 9                              | <b>Mast**</b>   | Lifting Height in mm                                  | 190   | 4825  | 190   | 4825  |
|                     | 11                             |   | Free Lift Height† in mm                               | 35  | 885   | 35  | 885   |
|                     | 12                             | <b>Fork Carriage</b>  |   | ITA Class II                                  |   |   |   |
|                     | 13                             | <b>Forks</b>  | Standard L x W x T in mm                              | 36x4x1.75                                     | 915x102x45  | 36x4x1.75                                     | 915x102x45  |
|                     |                                |   | Optional Lengths in mm                                | 30, 32, 39, 40, 42, 43.31, 45, 48, 54, 60, 72 | 760, 815, 990, 1015, 1065, 1100, 1145, 1220, 1370, 1525, 1830 | 30, 32, 39, 40, 42, 43.31, 45, 48, 54, 60, 72 | 760, 815, 990, 1015, 1065, 1100, 1145, 1220, 1370, 1525, 1830 |
|                     |                                |   | Fork Spread—Min/Max in mm                             | 9/33  | 230/840   | 9.5/36  | 240/915   |
|                     | 14                             | <b>Tilt</b>   | B°/F° degree  | 5/5   |   |   |   |
|                     | 15                             | <b>Headlength***</b>  | in mm   | 77.2  | 1960  | 77.2  | 1960  |
|                     | 16                             | <b>Width Overall</b>  | Standard Tread in mm                                  | 42.0  | 1067  | 42.0  | 1067  |
|                     | 17                             | <b>Height</b>   | Mast Collapsed in mm                                  | 83  | 2110  | 83  | 2110  |
|                     |                                |   | Mast Extended† in mm                                  | 238   | 6045  | 238   | 6045  |
|                     | 20                             | <b>Seat to Bottom of OHG Clearance (Loaded)</b>                                     | Std / Suspension in mm                                | 39.06/38.69                                   | 992/982   | 39.06/38.69                                   | 992/982   |
|                     | 21                             | <b>Turning Radius</b>   | in mm   | 62.7  | 1595  | 62.7  | 1595  |
|                     | 22                             | <b>Load Distance***</b>   | Wheel Cntr to Fork Face in mm                         | 14.5  | 370   | 14.5  | 370   |
| 23                  | <b>Aisle Width</b>             | Right Angle Stack in mm   | Turn Radius + Load Distance + Load Length + Clearance |   |   |   |   |
| Performance         | 24a                            | <b>Speed Travel††</b>   | 36V Empty/Loaded mph mm/s                             | 8.5/7.6 3800/3398                             | 8.5/7.6 3800/3398   | 8.5/7.6 3800/3398                             |   |
|                     | 24b                            | 48V Empty/Loaded mph mm/s   | 9.5/8.9 4247/3979                                     | 9.5/8.9 4247/3979                             | 9.5/8.9 4247/3979   |   |   |
|                     | 25a                            | <b>Speed Lift††</b>   | 36V DC Empty/Loaded fpm mm/s                          | 90/60 457/305                                 | 90/58 457/295   | 90/58 457/295                                 |   |
|                     | 25b                            | 36V AC Empty/Loaded fpm mm/s  | 110/69 559/351  | 110/67 559/340                                | 110/67 559/340  |   |   |
|                     | 25c                            | 48V AC Empty/Loaded fpm mm/s  | 110/75 559/381  | 110/73 559/371                                | 110/73 559/371  |   |   |
|                     | 26a                            | <b>Speed Lower</b>  | Manual Empty/Loaded fpm mm/s                          | 90/90 457/457                                 | 90/90 457/457   | 90/90 457/457                                 |   |
|                     | 26b                            | EPV Empty/Loaded fpm mm/s   | 100/100 508/508                                       | 100/100 508/508                               | 100/100 508/508   |   |   |
| Weight              | 32                             | <b>Weight, Less Battery</b>   | lb kg   | 6040 2740                                     | 6260 2840   | 6260 2840                                     |   |
|                     | 33                             | <b>Axle Load with Max Battery</b>   | Unloaded Front lb kg                                  | 4518 2050                                     | 4506 2845   | 4506 2845                                     |   |
|                     | 34                             |   | Unloaded Rear lb kg                                   | 4122 1870                                     | 4355 1975   | 4355 1975                                     |   |
| Chassis             | 35                             | <b>Tires</b>  | Number Front/Rear                                     | 2/2   |   |   |   |
|                     | 36                             |   | Size Front in mm                                      | 18x7x12.1 457x178x307                         | 18x7x12.1 457x178x307   | 18x7x12.1 457x178x307                         |   |
|                     | 37                             |   | Size Rear in mm                                       | 15x5x11.25 381x127x286                        | 15x5x11.25 381x127x286  | 15x5x11.25 381x127x286                        |   |
|                     | 38                             | <b>Wheelbase</b>  | in mm   | 54.7 1390                                     | 54.7 1390   | 54.7 1390                                     |   |
|                     | 39                             | <b>Tread Width</b>  | Front in mm   | 35.0 889                                      | 35.0 889  | 35.0 889                                      |   |
|                     |                                |   | Rear in mm  | 6.7 170                                       | 6.7 170   | 6.7 170                                       |   |
|                     | 40                             | <b>Ground Clearance, Loaded</b>   | Lowest Point in mm                                    | 3.0 76  | 3.0 76  | 3.0 76  |   |
|                     | 41                             |   | Center of Wheelbase in mm                             | 5.0 127                                       | 5.0 127   | 5.0 127                                       |   |
| 42                  | <b>Grade Clearance, Loaded</b> | %   | 22.4  |   | 22.4  |   |   |
| 43                  | <b>Brakes</b>                  | Service   | Foot - Motor / Electric Assist                        |   |   |   |   |
| 44                  |                                | Parking   | Auto - Electric                                       |   |   |   |   |
| Battery             | 45                             | <b>Battery</b>  | Type  | Lead Acid                                     |   |   |   |
|                     | 46                             |  | Capacity AH   | 850   |   | 850   |   |
|                     |                                |   | kWh   | 29.6  |   | 29.6  |   |
|                     | 47                             |   | Weight - Min lb kg                                    | 2250 1025                                     | 2250 1025   | 2250 1025                                     | 2250 1025   |
|                     |                                |   | Weight - Max lb kg                                    | 2600 1180                                     | 2600 1180   | 2600 1180                                     | 2600 1180   |
|                     |                                |   | Size - Max Length                                     | 25.13 638                                     | 25.13 638   | 25.13 638                                     | 25.13 638   |
|                     |                                |   | Width   | 38.81 986                                     | 38.81 986   | 38.81 986                                     | 38.81 986   |
|                     | Height                         | 22.63 ††† 579 †††   | 22.63 ††† 579 †††                                     | 22.63 ††† 579 †††                             | 22.63 ††† 579 †††   |   |   |
| 48                  | <b>Battery Floor Height</b>    | With Rollers/ w/o Rollers in mm   | 10.4/9.8 264/249                                      | 10.4/9.8 264/249                              | 10.4/9.8 264/249  | 10.4/9.8 264/249                              |   |
| Motors              | 49                             | <b>Motors</b>   | Traction Motor, dia in mm                             | 7.5 191                                       | 7.5 191   | 7.5 191                                       |   |
|                     | 50                             | Lift Motor, dia in mm   | 6.7 170   | 6.7 170                                       | 6.7 170   | 6.7 170                                       |   |
|                     | 51                             | <b>Operating Pressure</b>   | For Attachments psi bar                               | Up to 3100 Up to 214                          | Up to 3100 Up to 214  | Up to 3100 Up to 214                          |   |

\* Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact your local dealer.  
 \*\* Other mast heights available. See chart for other standard mast heights.  
 \*\*\* Add 4.25" (108 mm) for quad masts, add 2" (51 mm) for sideshift option.  
 † Includes load backrest.  
 †† Performance specifications are based on a truck equipped with a 190" (4825 mm) triple telescopic mast.  
 ††† Without Battery Comp't Rollers - Max battery height is 23.29" (592 mm) at the battery center lifting eye and 22.63" (575 mm) at the battery front corner.  
 With Battery Comp't Rollers - Max battery height is 22.80" (579 mm) at the battery center lifting eye and 22.14" (562 mm) at the battery front corner.

| Mast Chart SC 5200 Series |                       | TF    |       |       |       | TT    |      |       |      |       |      |       |      |       |      |
|---------------------------|-----------------------|-------|-------|-------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                           |                       | in    | mm    | in    | mm    | in    | mm   | in    | mm   | in    | mm   | in    | mm   |       |      |
| 9                         | Lifting Height        | 114   | 2895  | 126   | 3200  | 172   | 4365 | 190   | 4825 | 208   | 5280 | 226   | 5740 | 241   | 6120 |
| 11                        | Free Lift Height*     | 29    | 735   | 35    | 889   | 29    | 735  | 35    | 885  | 41    | 1040 | 47    | 1190 | 52    | 1320 |
| 14                        | Tilt B/F (degree)     | 5/5** | 5/5** | 5/5** | 5/5** | 5/5   | 5/5  | 5/5   | 5/5  | 5/5   | 5/5  | 3/5   | 3/5  | 3/5   | 3/5  |
| 17                        | Mast Collapsed Height | 77    | 1955  | 83    | 2110  | 77    | 1955 | 83    | 2105 | 89    | 2260 | 95    | 2410 | 100   | 2540 |
| 18                        | Mast Extended Height* | 162.5 | 4130  | 174.5 | 4430  | 220.5 | 5605 | 238.5 | 6060 | 256.5 | 6515 | 274.5 | 6975 | 289.5 | 7355 |

| Mast Chart SC 5200 Series |                       | QUAD  |       |       |       |       |       |       |       |       |       |
|---------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           |                       | in    | mm    | in    | mm    | in    | mm    | in    | mm    |       |       |
| 9                         | Lifting Height        | 240   | 6095  | 246   | 6245  | 258   | 6550  | 264   | 6705  | 276   | 7010  |
| 11                        | Free Lift Height*     | 36    | 910   | 38    | 965   | 41    | 1040  | 44    | 1115  | 47    | 1190  |
| 14                        | Tilt B/F (degree)     | 5/5** | 5/5** | 3/5** | 3/5** | 3/5** | 3/5** | 3/5** | 3/5** | 3/5** | 3/5** |
| 17                        | Mast Collapsed Height | 83    | 2105  | 86    | 2180  | 89    | 2260  | 92    | 2335  | 95    | 2410  |
| 18                        | Mast Extended Height* | 288   | 7315  | 294   | 7470  | 306   | 7775  | 312   | 7925  | 324   | 8230  |

\* Includes load backrest.

\*\* Not available with drive-in rack or double-function hydraulics.

SC 5200 Series

Technical Information

Standard Equipment

- Crown's Access 1 2 3<sup>®</sup> Comprehensive System Control
- e-GEN<sup>®</sup> Braking System with automatic parking brake
- Intrinsic Stability System<sup>®</sup>
  - Travel speed reduction and appropriate brake control when forks are above free lift
  - Forward tilt interlock above free lift
  - Controlled tilt speeds
  - Counterweight exceeds required standards
  - Cornering speed control
  - Ramp hold
  - Ramp speed control
- 36/48-volt system
- Driveability standard features
  - 15" (381 mm) step height
  - Large, uncluttered floorboard
  - Rubber floor mat
  - Rubber accelerator and brake pedal
  - Large, entry/exit "window"
  - Contoured battery cover for easy entry/exit
  - Crown FlexSeat™ - fabric with hip restraint and anti-cinch seatbelt
  - Compact steering wheel and steering column

- Infinitely adjustable tilt steering
  - Operator forward design for enhanced visibility
  - Low cowl for fork and floor visibility
  - Nylon covered manual hydraulic control levers with integrated tactile feedback
  - Natural position for forward/reverse selector
  - Automatic parking brake
  - Crown FlexSeat with a passive suspension and back flex
- 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
  - 350 amp battery connector
  - InfoPoint<sup>®</sup> System with Quick Reference Guide
  - Color-coded wiring
  - Lift out or side removal battery access
  - Dual 15" (381 mm) steer tires
  - Large 18" (457 mm) cushion drive tires

- Crown-manufactured drive and lift motors
- Proportional rack and pinion steering
- Waterfall design overhead guard
- 48" (1220 mm) high load backrest
- No tool lift out floorboards for service access
- High visibility mast with in-line hose routing
- O-ring face seal hydraulic fittings
- 5° Forward / 5° Back tilt
- All AC System
- On-Demand Steering
- Drive Axle Debris Guard

Optional Equipment

- Battery rollers
- Quick Charge 1 or 2 connectors on seat deck
- Freezer and corrosion conditioning
- Sideshifter
- Hydraulic valves for attachments
- Quick disconnect hydraulic connectors
- Steering spinner knob
- Storage tray
- Keyless on/off switch

- Keypad lock
- Foot operated directional control
- Fork lengths
- Polished and tapered forks
- Load backrest heights
- Super elastic tires
- Drive-in rack overhead guard
- 83" overhead guard
- Tilt options
- Working lights
- Flashing lights
- Turn signals
- Brake, tail and back-up light
- Audible travel alarms
- Tilt position assist
- Arm rest
- Grabbar
- Work Assist<sup>®</sup> Accessories
  - Clip pad and hook
  - Clamp
  - Clamp and mounting plate
  - Operator fan
  - Fire extinguisher
  - Mirrors
  - Shrink Wrap Holder
  - Cup Holder
  - Pencil Holder
  - Storage pocket behind seat

- 28. Suspension Seat - fabric or vinyl
- 29. Crown FlexSeat - vinyl
- 30. Rear Post Handle with Horn Button
- 31. Hydraulic control options with directional travel and horn integrated into the adjustable armrest
  - Fingertip control levers
  - Dual-axis joystick control levers

### Driveability

The SC 5200 Series benefits from Crown's design and engineering excellence. Numerous design features improve operator comfort and productivity.

A low 15" (381 mm) step height first greets the operator. A low battery cover that is streamlined helps the operator glide into the truck's Crown FlexSeat™. The overhead guard is shaped to open up the entry/exit window. The compact tilt steer column and steer wheel further facilitate entry/exit. Floorboards are large, uncluttered and rubber covered to insulate the operator from vibration. Brake and accelerator pedals are rubber covered to provide good grip and comfort.

Several designs contribute to better visibility everywhere you look. A low cowl for fork visibility, a unique waterfall overhead guard for load handling, a high visibility mast and a compact steer column all improve operator visibility around the truck.

Control handles are crafted into the compartment and "fanned" for easy selection. They are nylon 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 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 and shoe 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 keep the truck static until a travel input is requested, even when operating on a grade.

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

### Proportional Rack and Pinion Steering System

Hydrostatic power steering uses a large, totally enclosed rack and pinion gear assembly. Load-sense hydrostatic steering is an on-demand system which reduces energy consumption. Smooth, quiet steering control with minimal operator effort required at the steer tiller. Crown's hydrostatic steering system is simplified with significantly fewer parts, thus reducing maintenance requirements.

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.

## SC 5200 Series

Large, (15" diameter, 381 mm) dual steer wheels provide good traction and stability.

### Hydraulics

The hydraulic system provides continuous filtration. A heat stabilized polymer hydraulic tank is free from contamination and retains strength over a wide range of temperatures. Hydraulic attachments can be added easily in the field using modular valve bodies. Hydraulic valve handle actuation is precise and oil is controlled using metered spool valves and motor speeds.

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

### Mast Assembly

Crown-manufactured mast assembly utilizes a "flush-face" interlocked I-beam design to improve visibility and save 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. 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 to the sides 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

## Technical Information

distortions. Two large diameter studs secure the mast to the drive units.

### Drive Units

Two Crown-manufactured independent double reduction planetary gear drives offer 27 to 1 gear reduction. The first and second reduction use helical gears for low noise and efficiency. The drive unit gears are splash lubricated in an oil bath.

### Carriage

An ITA Class II carriage is standard. An optional hook type ITA shifter or other attachments are easily added. Optional fork lengths are available.

### 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.



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](http://crown.com) and view our safety section to learn more.

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Because Crown is continually improving its products, specifications are subject to change without notice.

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