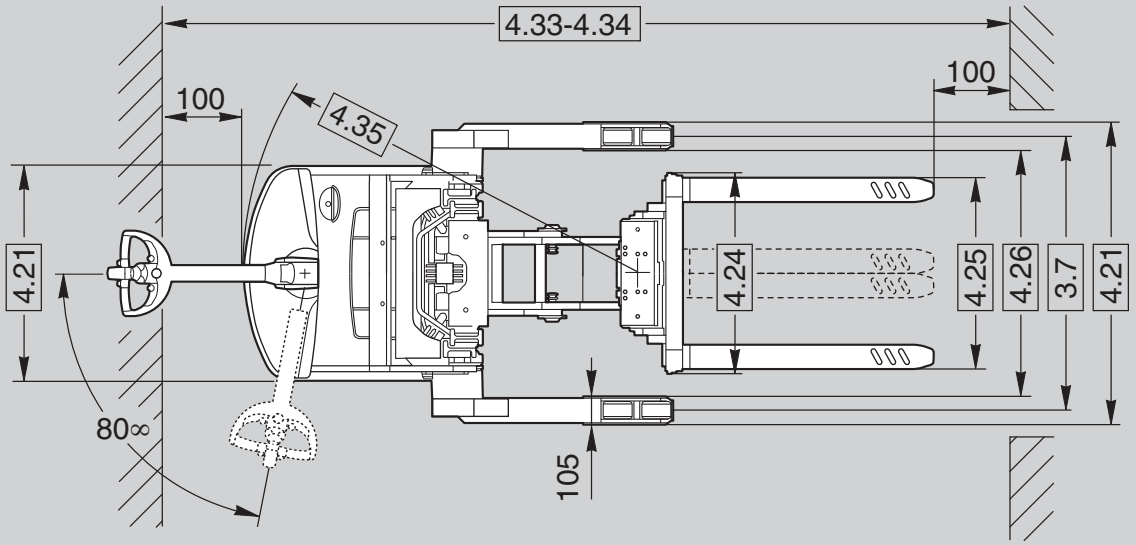
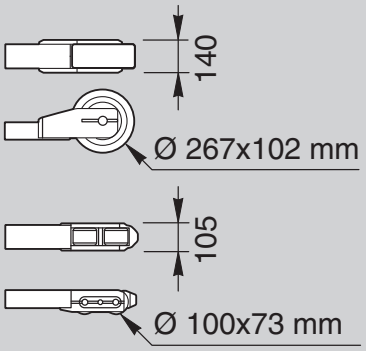
# SHR 5500 SERIES

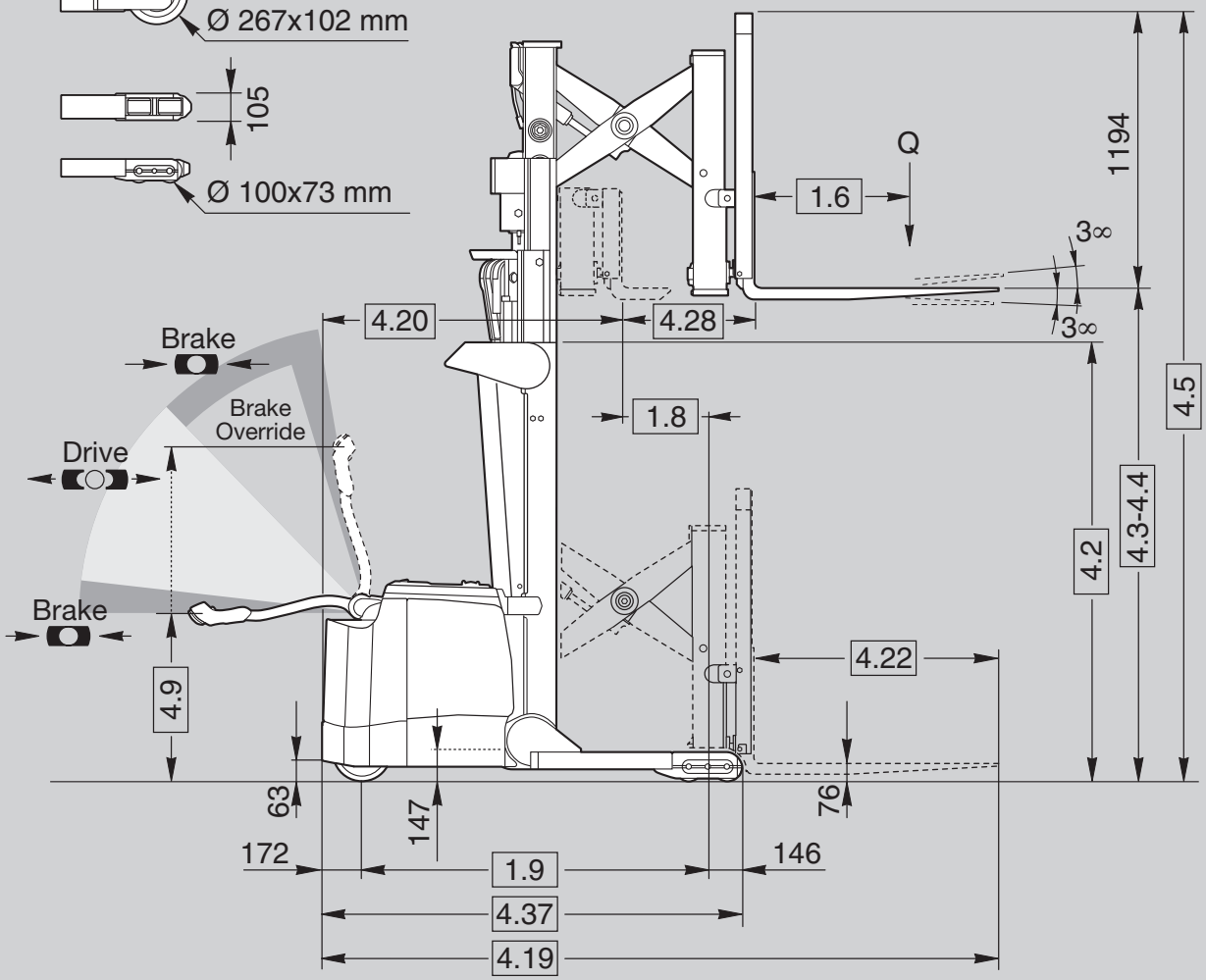
## Specifications

Reach Stacker




Optional Loadwheels



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| General Information | 1.1 | **Manufacturer** | | | | Crown Equipment Corporation | | |
| | 1.2 | **Model** | | | | SHR 5520-1.1 | SHR 5520-1.35 | SHR 5540-1.6 |
| | 1.3 | **Power** | | | | electric | | |
| | 1.4 | **Operator Type** | | | | pedestrian | | |
| | 1.5 | **Load Capacity** | | Q | t | 1.1 | 1.35 | 1.6 |
| | 1.6 | **Load Centre** | | c | mm | 600 | | |
| | 1.8 | **Load Distance** | | x | mm | 392 | | |
| | 1.9 | **Wheel Base** | | y | mm | 1339 | | 1504 |
| Weights | 2.1 | **Weight** | less battery | | kg | see table 1 | | |
| | 2.2 | **Axle Load** | w. load, front / rear | | kg | see table 1 | | |
| | 2.3 | **Axle Load** | w.o. load, front / rear | | kg | see table 1 | | |
| Tyres | 3.1 | **Tyre Type** | | | | Vulkollan / PU | | |
| | 3.2 | **Wheel Size** | front | | mm | Ø 250 x 75 | | |
| | 3.3 | **Wheel Size** | rear | | mm | Ø 127 x 73 | | |
| | 3.5 | **Wheels** | number (x=driven) front/rear | | | 1x / 4 | | |
| | 3.6 | **Track Width** | front | b10 | mm | central position | | |
| | 3.7 | **Track Width *** | rear | b11 | mm | 965 - 1372 | | |
| Dimensions | 4.1 | **Fork Carriage Tilt** | forwards/backwards | ° | angle | 3 / 3 | | |
| | 4.2 | **Mast** | collapsed height | h1 | mm | see table 1 | | |
| | 4.3 | **Free Lift** | | h2 | mm | see table 1 | | |
| | 4.4 | **Lift Height** | | h3 | mm | see table 1 | | |
| | 4.5 | **Mast** | extended height | h4 | mm | see table 1 | | |
| | 4.9 | **Tiller Arm Height** | in drive position min./max. | h14 | mm | 800 - 1278 | | |
| | 4.15 | **Fork Height** | lowered | h13 | mm | 76 | | |
| | 4.19 | **Overall Length** | retracted | l1 | mm | 2263 | | 2428 |
| | 4.20 | **Headlength** | | l2 | mm | 1118 | | 1283 |
| | 4.21 | **Overall Width **** | front / rear | b1/b2 | mm | 915 / 1074 - 1480 | | |
| | 4.22 | **Fork Dimension** | standard | thxwxl | mm | 40 x 100 x 1145 | | 45 x 100 x 1145 |
| | | | optional length | l | mm | 760, 915, 990, 1065, 1220, 1370, 1525 | | |
| | 4.23 | **Fork Carriage** | ISO class | | | 2A | | |
| | 4.24 | **Fork Carriage Width** | | b3 | mm | 813 | | |
| | 4.25 | **Width Across Forks** | | b5 | mm | 200 - 815 | | |
| | 4.26 | **Inside Straddle Width** | in 51 mm increments | b4 | mm | 863 - 1271 | | |
| | 4.28 | **Reach** | | l4 | mm | 590 | | |
| | 4.31 | **Ground Clearance***** | with load, below mast | m1 | mm | 53 | | |
| | 4.32 | **Ground Clearance***** | centre of wheelbase | m2 | mm | 53 | | |
| | 4.33 | **Working Aisle Width** | 1000 x 1200 mm traverse | Ast | mm | 2564 | | 2728 |
| | 4.34 | **Working Aisle Width** | 800 x 1200 mm length | Ast | mm | 2612 | | 2776 |
| | 4.35 | **Turning Radius** | | Wa | mm | 1510 | | 1674 |
| | 4.37 | **Length Over Outriggers****** | | l7 | mm | 1656 | | 1821 |
| Performance | 5.1 | **Travel Speed** | w. / w.o. load | | km/h | 5.8 / 6 | | |
| | 5.2 | **Lift Speed** | w. / w.o. load | | m/s | 0.15 / 0.24 | | |
| | 5.3 | **Lowering Speed** | w. / w.o. load | | m/s | 0.25 / 0.25 | | |
| | 5.7 | **Gradeability** | w. / w.o. load, 30 min. rating | | % | 5 / 9 | 4 / 8 | 4 / 8 |
| | 5.8 | **Max. Gradeability** | w. / w.o. load, 5 min. rating | | % | 10 / 10 | | |
| | 5.10 | **Service Brake** | | | | electromagnetic | | |
| Motors | 6.1 | **Traction Motor** | rating at S2 60 min. | | kW | 2.0 | | |
| | 6.2 | **Lift Motor** | rating at S3 15% | | kW | 3.3 | | |
| | 6.3 | **Max. Battery Compartment Size** | | lxwxh | mm | 168 x 778 x 630 | | 333 x 835 x 630 |
| | 6.4 | **Battery Voltage** | nominal capacity K5 | | V / Ah | 24 / 258 | | 24 / 625 |
| | 6.5 | **Battery Weight** | minimum | | kg | 230 | | 442 |
| | 8.1 | **Type Controller** | drive | | | transistor | | |

* Add 45 mm with optional load wheels Ø 267x102 mm
** Add 76 mm with optional load wheels Ø 267x102 mm
*** With optional tandem load wheels Ø 100x73 mm, –28 mm
**** Subtract 28 mm with optional load wheels Ø 100x73 mm and 12 mm with optional load wheels Ø 267x102 mm

| Table 1 | | | | | **SHR 5520-1.1** | | | **SHR 5520-1.35** | | | **SHR 5540-1.6** | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | **TL** | | **TT** | **TL** | | **TT** | **TL** | | **TT** | |
| 2.1 | **Weight** | less battery | | kg | 1699 | 1746 | 1873 | 1932 | 1980 | 2107 | 1826 | 1873 | 2000 | 2186 |
| 2.2 | **Axle Load** | with load, front | | kg | 980 | 995 | 1102 | 1112 | 1127 | 1247 | 1126 | 1141 | 1252 | 1270 |
| | | with load, rear | | kg | 2084 | 2117 | 2155 | 2412 | 2445 | 2483 | 2748 | 2781 | 2819 | 2976 |
| 2.3 | **Axle Load** | w.o. load, front | | kg | 1188 | 1217 | 1288 | 1369 | 1399 | 1472 | 1383 | 1413 | 1483 | 1563 |
| | | w.o. load, rear | | kg | 742 | 761 | 816 | 795 | 812 | 866 | 885 | 903 | 959 | 1066 |
| 4.2 | **Mast** | collapsed height | h1 | mm | 2121 | 2426 | 1905 | 2121 | 2426 | 1905 | 2121 | 2426 | 1905 | 2261 |
| 4.3 | **Free Lift** | | h2 | mm | 152 | 152 | 711 | 152 | 152 | 711 | 152 | 152 | 711 | 1067 |
| 4.4 | **Lift Height** | | h3 | mm | **3225** | **3810** | **3960** | **3225** | **3810** | **3960** | **3225** | **3810** | **3960** | **4875*** |
| 4.5 | **Mast** | extended height | h4 | mm | 4419 | 5004 | 5154 | 4419 | 5004 | 5154 | 4419 | 5004 | 5154 | 6069 |

* Minimum inside straddle width is 1067 mm

### Standard Equipment

1. 24-volt electrical system
2. Crown's Access 1 2 3® Comprehensive System Control
3. Crown's Access 1 2 3® information display
   - 1 line display with 8 characters
   - Scrolling function via 5 button access
   - Three selectable performance levels
   - BDI with lift interrupt
   - Event codes
   - Access 1 2 3® onboard diagnostics with real time troubleshooting capability
   - PIN code capability
4. AC traction and steer motors
5. Performance enhancing features
   - X10® Handle
   - 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. Plexiglass mast guard
7. Vulkollan drive tyre Ø 250 x 75 mm
8. Polyurethane tandem load wheels Ø 127 x 73 mm
9. InfoPoint® System
10. Steel power unit covers
11. Load backrest
12. Emergency power disconnect plug
13. Key switch
14. Horn
15. SBE 160 red battery connector
16. Reversing button
17. Electric park brake
18. Fork tip indicators
19. Battery compartment rollers

### Optional Equipment

1. 30 amp on-board charger only for the small battery compartment
2. Work Assist™ Accessories:
   - Clip pad
   - Hook
   - Clip pad and hook
   - Pocket
3. Sideshifter
4. Optional fork lengths
5. Freezer conditioning
6. Metal mast grill
7. Ø 254 x 100 mm drive tyre
   - Soft poly
   - Siped soft poly
8. Polyurethane load wheels
   - tandem Ø 100 x 73 mm
   - single Ø 267 x 102 mm
9. Travel Alarm
10. Flashing amber light or mast mounted spotlight
11. Special paint

### Operator Controls

Crown's robust X10 handle places all control buttons in the optimum position for ease of operation with either hand and to minimise hand and wrist movements. An ergonomic forward/reverse thumb wheel allows for precise manoeuvring. 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.

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 manoeuvrability 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 authorised 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 pre-programmed performance profiles if desired.
Electronic power steering allows the operator to manoeuvre heavy loads in tight spaces throughout the day while minimising fatigue.
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 ensures that actual travel speed matches requested travel speed.

### Electrical System

A heavy-duty 24-volt fused electrical system utilises 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.

### Hydraulic System

Heavy-duty hydraulic motor (3.3 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 customisation 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 under a 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.

### Reach Mechanism

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

### Serviceability / Durability

The Access display simplifies service by providing advanced diagnostics without the need for separate handsets. The display allows the service engineers 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 on-truck component maps to further simplify troubleshooting.
Removable steel power unit doors are hinged for ease of opening providing excellent accessibility to the distribution panel and all other components.
Battery removal can be accomplished from either side. Battery compartment rollers are standard.

### Safety Regulations

Conforms to European safety standards. 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.

SHR 5500 SPEC GB 05/14, 10
M03405-006-04
Printed in Germany

TÜV CERT DIN EN ISO 9002

CROWN

European Manufacturing:
Crown Gabelstapler GmbH & Co. KG
Roding, Germany
www.crown.com