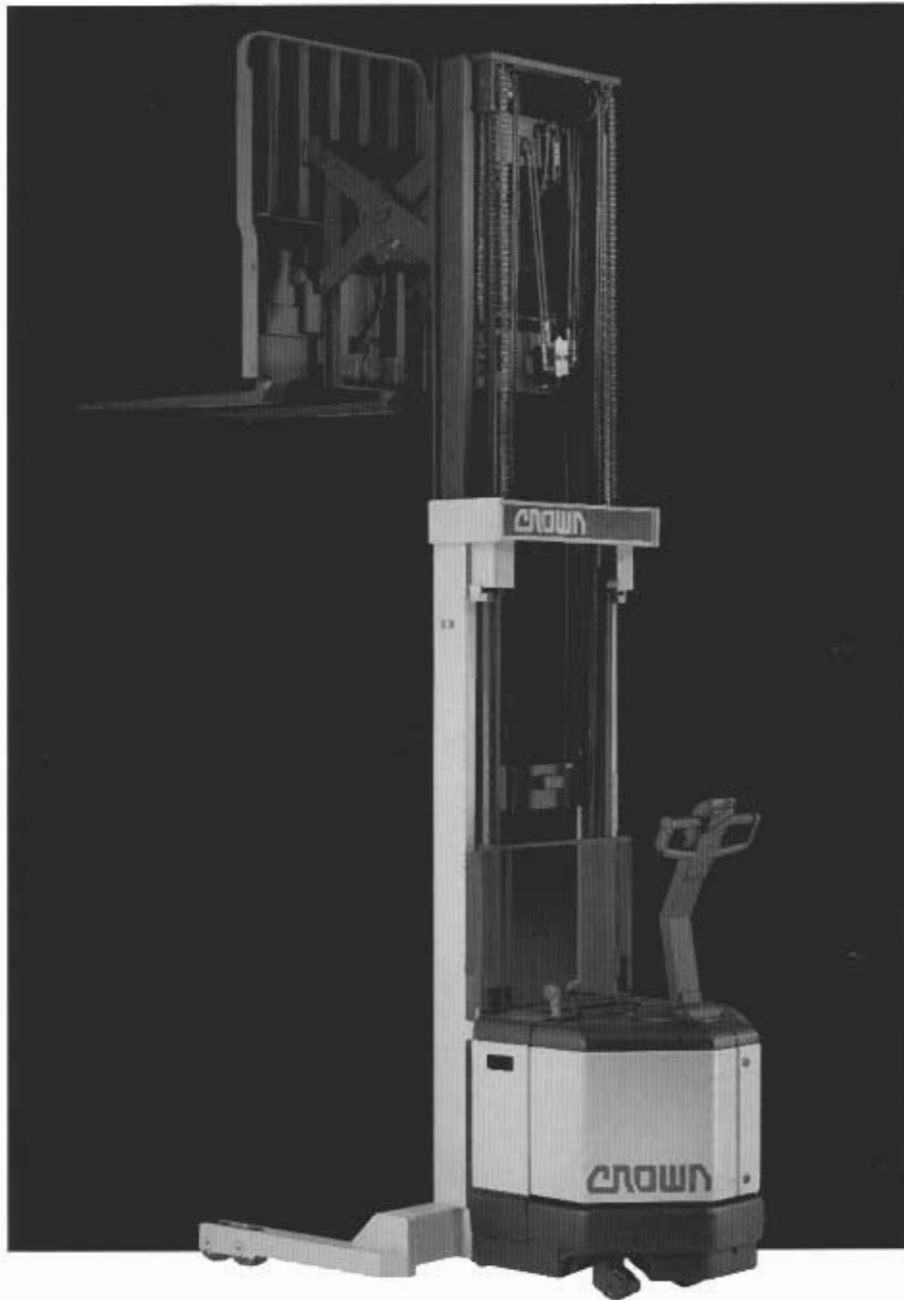


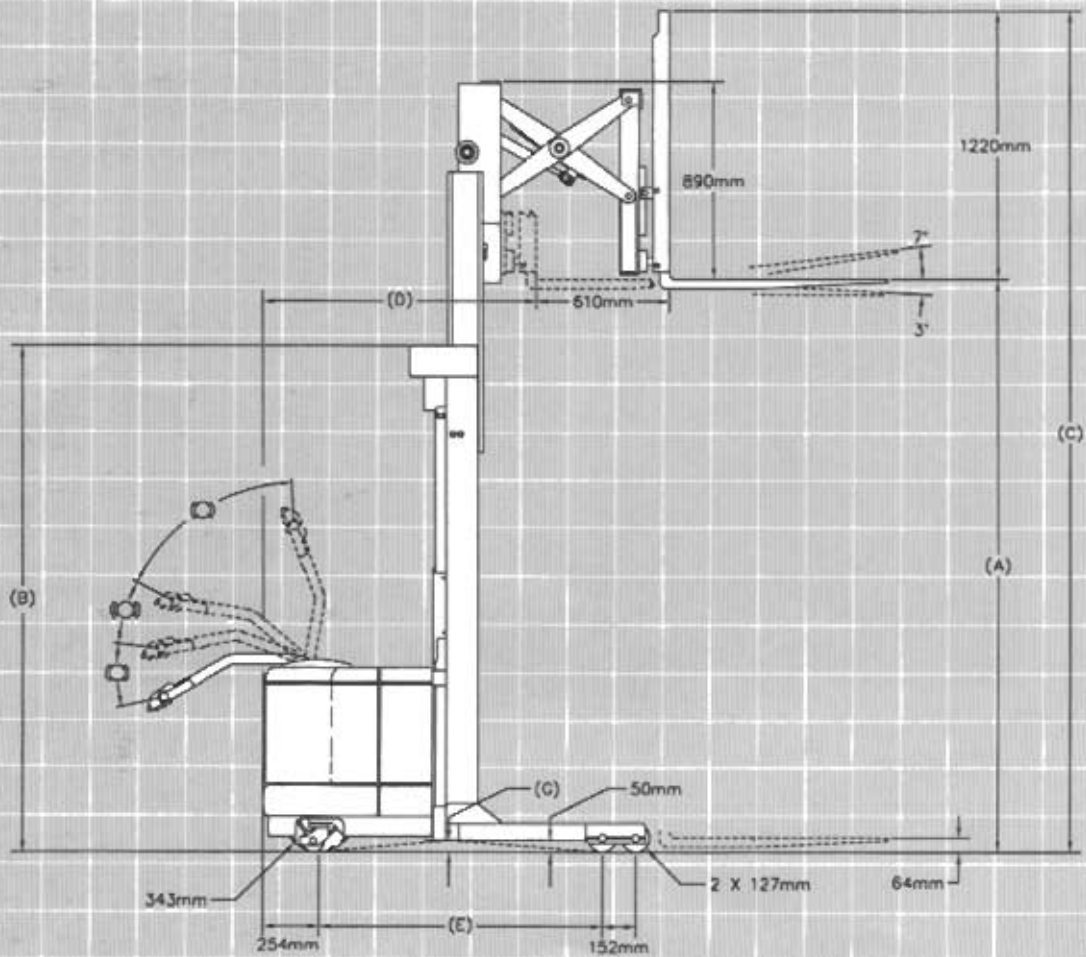
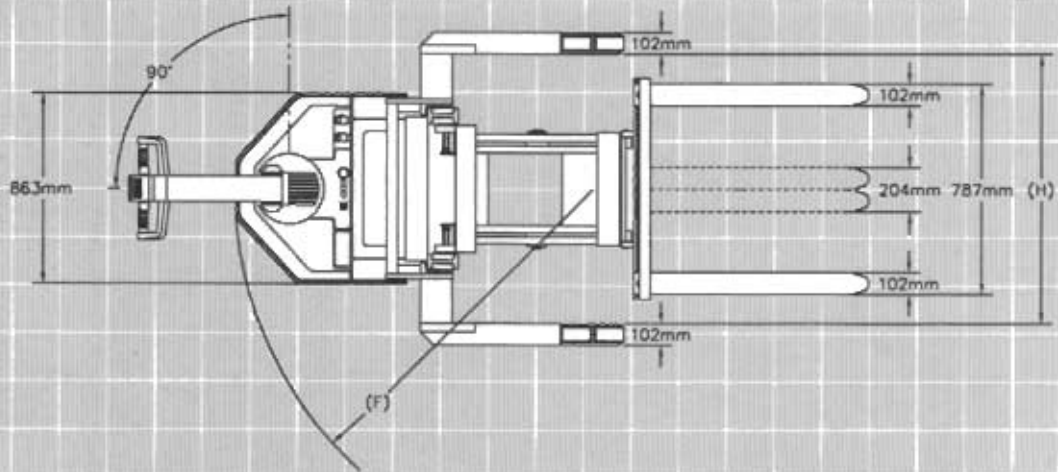


**Heavy Duty Walkie Reach Stackers**  
1500 kg capacity

Series 30WR3000



**Specifications**



|                                   | 30WRTL<br>Dual Stage   |      |      | 30WRTT<br>Triple Stage |       |       |       |
|-----------------------------------|--|------|------|------------------------|-------|-------|-------|
| A <b>Lifting Height</b>           | 2600   | 3200 | 3810 | 4370                   | 4830  | 5280  | 5750  |
| <b>Free Lift</b>                  | N/A  | N/A  | N/A  | 917*                   | 1137* | 1287* | 1444* |
| B <b>Collapsed Height</b>         | 1904   | 2204 | 2509 | 2137                   | 2357  | 2507  | 2664  |
| C <b>Extended Height*</b>         | 3820   | 4420 | 5030 | 5590                   | 6050  | 6500  | 6970  |
| <b>Net Weight Less Battery kg</b> | 1676   | 1728 | 1780 | 2230                   | 2270  | 2310  | 2351  |
| D <b>Head Length</b>              | 1355   | 1355 | 1355 | 1393                   | 1393  | 1393  | 1393  |
| E <b>Wheelbase</b>                | 1403   | 1403 | 1403 | 1440                   | 1440  | 1440  | 1440  |
| F <b>Turning Radius**</b>         | 1735   | 1735 | 1735 | 1775                   | 1775  | 1775  | 1775  |
| G <b>Grade Clearance</b>          | 15% Small Compartment  |      |      | 13% Large Compartment  |       |       |       |
| <b>Maximum Battery Size</b>       | Small Compartment: 225mm width x 790mm length x 590mm high<br>Large Compartment: 335mm width x 790mm length x 590mm high |      |      |                        |       |       |       |
| H <b>Inside Straddle</b>          | 864mm to 1270mm x in 50mm increments   |      |      |                        |       |       |       |
| <b>Outside Straddle</b>           | 203mm plus inside straddle dimension   |      |      |                        |       |       |       |
| J <b>Fork Lengths</b>             | 762, 915, 1067 and 1220 (38mm thick x 102mm wide)  |      |      |                        |       |       |       |

\* Add 330mm to free lift of WRTT models, and subtract 330mm from extended height of all models if load backrest is not required.

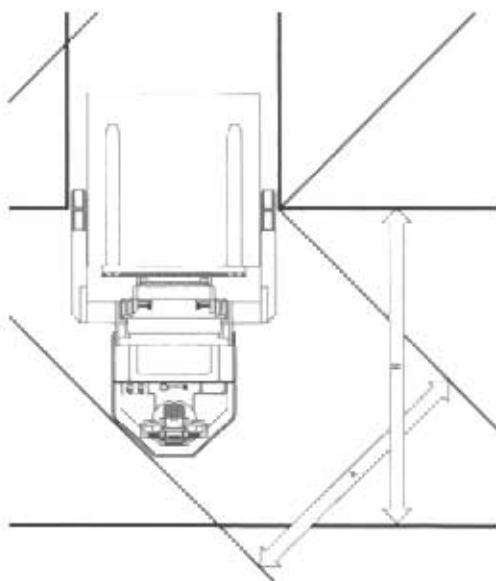
\*\* Deduct 60mm for small battery.

1500kg to 2590mm @ 800mm load centre above this height, consult Engineering as it is subject to model configuration.

N.B. All measurements are in mm unless otherwise specified.

## Aisle Planning Guide

A - Equal Intersecting Aisles  
B - Right Angle Aisle



Note: Add 150mm to aisle width "A" and "B" for maximum manoeuvrability.

## Small Battery Compartment

### 30WRTL

| Load Length   | 762  |      | 915  |      | 1066 |      | 1220 |      |
|---------------|------|------|------|------|------|------|------|------|
| Load Width    | A    | B    | A    | B    | A    | B    | A    | B    |
| 762           | 1750 | 2180 | 1750 | 2291 | 1750 | 2416 | 1750 | 2551 |
| 915           | 1774 | 2240 | 1774 | 2341 | 1774 | 2458 | 1774 | 2587 |
| 1066          | 1800 | 2302 | 1800 | 2395 | 1800 | 2504 | 1800 | 2627 |
| 1220          | 1830 | 2369 | 1830 | 2454 | 1830 | 2556 | 1830 | 2672 |
| <b>30WRTT</b> |      |      |      |      |      |      |      |      |
| 762           | 1789 | 2220 | 1789 | 2331 | 1789 | 2456 | 1789 | 2591 |
| 915           | 1812 | 2280 | 1812 | 2381 | 1812 | 2498 | 1812 | 2627 |
| 1066          | 1837 | 2342 | 1837 | 2435 | 1837 | 2544 | 1837 | 2667 |
| 1220          | 1866 | 2409 | 1866 | 2494 | 1866 | 2596 | 1866 | 2712 |

## Large Battery Compartment

### 30WRTL

| Load Length   | 762  |      | 915  |      | 1066 |      | 1220 |      |
|---------------|------|------|------|------|------|------|------|------|
| Load Width    | A    | B    | A    | B    | A    | B    | A    | B    |
| 762           | 1808 | 2274 | 1808 | 2391 | 1808 | 2519 | 1808 | 2656 |
| 915           | 1831 | 2330 | 1831 | 2438 | 1831 | 2559 | 1831 | 2691 |
| 1066          | 1856 | 2390 | 1856 | 2489 | 1856 | 2603 | 1856 | 2729 |
| 1220          | 1885 | 2454 | 1885 | 2546 | 1885 | 2652 | 1885 | 2772 |
| <b>30WRTT</b> |      |      |      |      |      |      |      |      |
| 762           | 1846 | 2314 | 1846 | 2431 | 1846 | 2559 | 1846 | 2696 |
| 915           | 1869 | 2370 | 1869 | 2478 | 1869 | 2599 | 1869 | 2731 |
| 1066          | 1894 | 2430 | 1894 | 2529 | 1894 | 2643 | 1894 | 2769 |
| 1220          | 1922 | 2494 | 1922 | 2586 | 1922 | 2692 | 1922 | 2812 |

**Capacities**

Model 30WR3000: 1500kg at 800mm load centre. To 2590mm. Capacity reduced for higher lift heights, extended load centres and attachments.

**Batteries**

Standard battery size is 510 amp hour-24 volt available. Up to 855 amp hours, 24 volts. Minimum battery weight of 350 kg is required. Standard battery rollers allow battery removal from either side.

**Travel Speeds**

In third speed: loaded: 4.3kph  
Empty: 5.1kph

**Lifting/Lowering Speeds (mpm)**

| Lifting Speed | Lowering Speed |
|---------------|----------------|
| Empty         | Loaded         |
| 16.7          | 10.6           |
| 8.5           | 9.7            |

**Operator Controls**

"Power on" key prevents unauthorised operation of the truck. Console display panel includes battery fuel gauge, and lighted feedback panels indicate which auxiliary hydraulic function the operator has selected.

Large hydraulic function control knobs are ergonomically designed with tactile feedback; switch button is available for additional function selection on the carriage.

Operator storage includes pocket area on dash. Power disconnect is easy to reach and operate.

The WR3000 Series has a refined control handle which improves operator comfort and productivity. The Crown WR3000 Series has dual, soft urethane twist grips with automatic return to neutral when released. Two textures and a unique "cam" design aid in plugging, steering and long distance travel. On the control pod are full width raise, lower, and horn buttons for easy actuation. Third speed selector in control handle may be used to shut off high speed when operating congested areas.

Reversing button in control handle reverses direction of travel if button should come in contact with operator.

**Wheels and Tyres**

Polyurethane Drive Tyre - 343 mm dia x 140 mm wide x 203 mm dia hub pressed on high profile with smooth tread. Tandem Load Wheels - 70 mm wide, 127 mm dia.

polyurethane. Load wheels have sealed bearings. Axles are flush to prevent skid and pallet damage. Quick adjustment casters enable braking, traction, steer effort and stability to be "balanced" based on your specific applications.

**Forks**

38 mm thick x 102 mm wide. Forged steel forks with full upset heel standard on all models. Overall fork width is adjustable from 203 mm to 787 mm. Fork lengths - 782 mm, 915 mm, 1067 mm and 1220 mm. Fork Carriage on all models is standard ITA Class II hook-type.

**Hydraulic System**

Standard equipment includes:

1. Heavy duty motor and gear pump assembled as an integral unit. Pump and motor unit tinged for easy accessibility to electrical system.
2. Hydraulic function control valve provides precise metering of lift, tilt and accessory functions, and uses a special compensating section to improve overall system efficiency. Its modular design allows easy addition of accessory functions. Maximum lowering speed is limited by pressure-compensating flow control and velocity fuses. Integrated hydraulic cylinder cushions soften primary mast staging and bottom stop when lowering. All lift cylinder rams are plated and retract into the hydraulic oil for additional corrosion protection when forks are lowered.
3. Push button for switching from tilt to reach, and optional fork carriage functions through use of circuit selection valves.
4. Reservoir filler equipped with screen and breather cap.
5. Double-acting piston-type tilt cylinder. All rams and piston rods are hard chrome plated for smooth operation and increased life. Lift and reach cylinders are equipped with long life polyurethane packing's.
6. Separate overload relief valves for lift and reach/tilt. Tilt circuit equipped with counterbalance valve; reach circuit equipped with pilot checks for positive operator control and prevention of load drift.

**Electrical System**

1. 24-volt electrical system.
2. Series-wound, high torque, fan cooled, Crown manufactured drive motor for reliability and ease of service.

3. Series wound, high torque, lift motor.

4. Traction control systems; Transistor control is optional. Transistor control has many benefits; maximum energy efficiency, reduced maintenance, and infinite speed control. Crown transistor controls feature a 250 amp rated system; a bypass contactor for maximum current in heavy loading, ramping applications; arc-less contactor operation; ramp start; and a sealed enclosure that protects the transistor control from water, contaminants, etc. Solid-state circuit selector for sequential control of hydraulic functions. Permits single operator control of reach, tilt and optional carriage attachments.

Limit switch automatically reduces maximum travel speed immediately upon extension of second and third stages to improve stability.

**Reach Mechanism**

Heavily constructed pantograph type reach mechanism with dual reach cylinders. Mechanism features: chrome plated cylinder rods, hydraulic cushions at both ends of stroke, lifetime lubricated sealed channel roller bearings, anti-friction bearings at centre pivots, and grease lubricated spherical bushings.

**Mast**

Carriage tilts 7 degrees up and 3 degrees down. (Designed to operate in all reach positions and at all lifting heights). High visibility two-and three-stage mast features nested-rail design with lift cylinders positioned behind the rails offering operator protection. Three-stage also has a low centre position free lift cylinder. Internal reeving of all hydraulic hoses and electrical control cable for accessory functions on fork carriage eliminate need for hose reels and high cost maintenance. Reeving design also keeps visibility open. Negative rail drop allows shimming of mast rollers without major disassembly. Tilt cylinders use self-aligning bushings, which reduce side loads on rods and seals. Lift/tilt interlock system provides extended forward tilt at low fork heights.

**Power Unit Structure**

Rugged steel doors are suspended on heavy-duty pin hinges. Doors swing wide for good access. Doors

also can be lifted off for unrestricted service access. Door bolts have exclusive convex design that mates with concave door holes for fast reinstallation of bolts. Heavy steel skirt surrounds entire area.

**Brake**

Internal expanding mechanical brake with 127mm drum and bonded brake linings. Brake drum is mounted on drive motor shaft and braking effort is transmitted through the gear reductions. Brake is actuated by control handle position.

**Drive Unit**

All gear drive from drive motor to drive wheel axle. Drive tire axle is mounted in the drive unit on both sides for maximum strength in rough floor or docking applications. Drive unit is top and bottom mounted. Top mount is a large, tapered roller bearing for vertical or horizontal forces. Bottom mount has four shock mounted rollers on drive unit running in a hardened steel roller race. Gear train runs in oil-filled, sealed housing.

**Optional Equipment**

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.
3. Transistor speed control.
  4. Safety yellow or orange paint.
  5. Hour Meter.
  6. Large load wheels as required.
  7. Other special requirements to order.

*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 Pty Ltd**

ACN 000 514 858  
Australia Wide Call 131 804  
Adelaide, Albany, Brisbane, Canberra  
Coffs Harbour, Gold Coast, Melbourne  
Newcastle, Perth, Shepparton  
Sydney, Townsville

**Crown Equipment Ltd**

New Zealand Toll Free  
Call 0800 802 002  
Auckland, Christchurch  
Hastings, Palmerston North  
Tauranga, Wellington

**Crown Equipment Pte Ltd**

Singapore 861 3069

**Crown Equipment Sdn.Bhd.**

Malaysia 541 5541