



Specifications

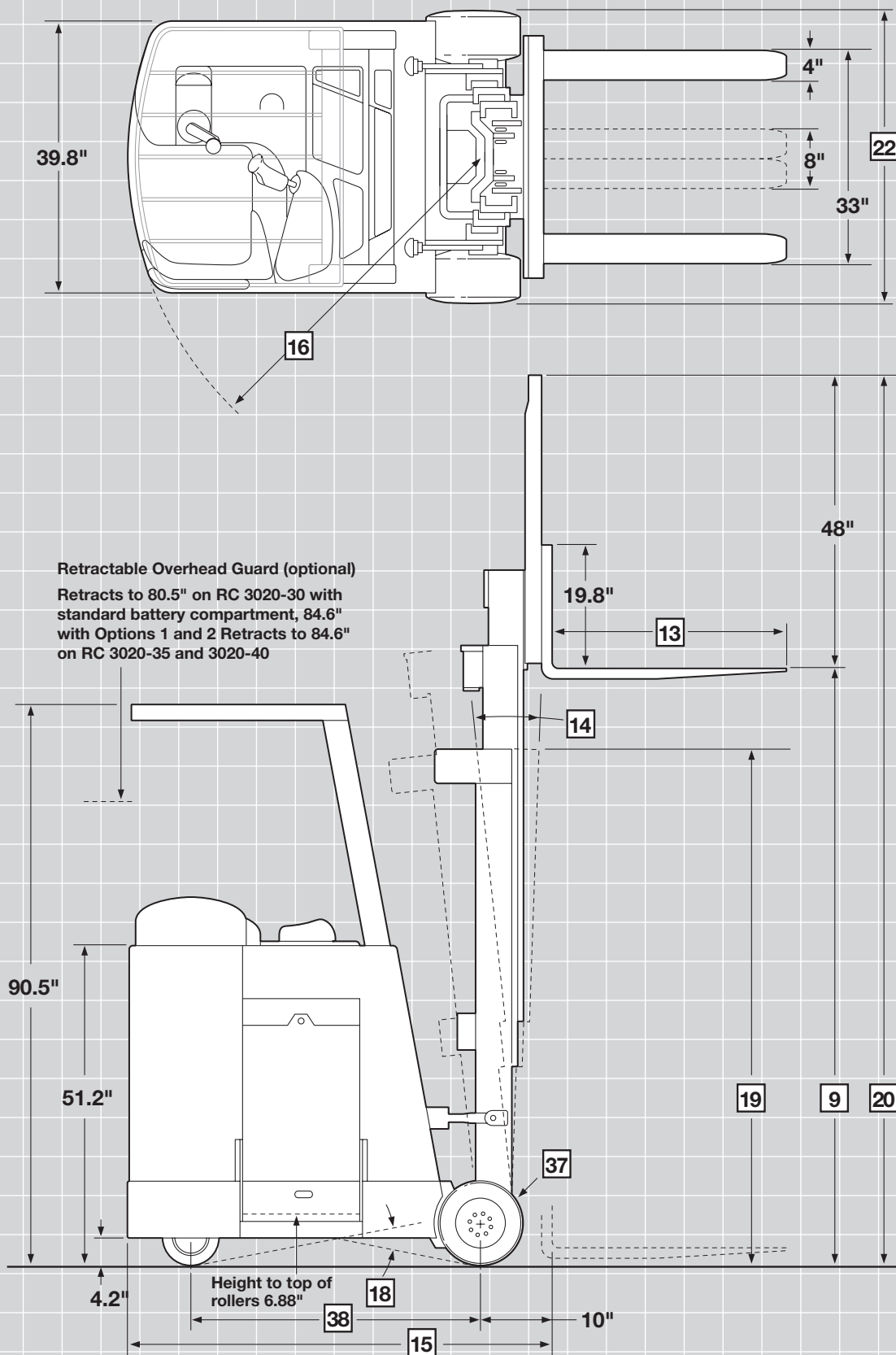
RC 3000 Series

Stand-up
Rider
Lift Truck

RC 3000

Series





RC 3000 Series

Specifications

| | | | | | | | | | | |
|---------------------|----------------------|--------------------------|--|---------------------------|----|-----------------------------|--------------------|----------------------------|--------------------|--------------|
| General Information | 1 | Manufacturer | | | | Crown Equipment Corporation | | | | |
| | 2 | Model | | | | RC 3020-30 | | RC 3020-35 | RC 3020-40 | |
| | 3 | Load Capacity* | | lb | | 3000 | | 3500 | 4000 | |
| | 4 | Load Center | | Fork Face to Load CG | | in | | 24 | 24 | 24 |
| | 5 | Power | | Electric | | volts | | 36 | 36 | 36 |
| | 6 | Operator Type | | Stand-up Rider | | Counterbalanced | | | | |
| | 7 | Tire Type | | Drive/Steer | | Poly/Rubber | | Poly/Rubber | Poly/Poly | |
| | 8 | Wheels (x = driven) | | Drive/Steer | | 2x / 2 | | 2x / 2 | 2x / 2 | |
| Dimensions | 9 | Lifting Height | | in | | See Mast Chart | | | | |
| | 10 | Guard Height | | in | | 90.5 | | 90.5 | 90.5 | |
| | 13 | Forks | | Standard L x W x T | | in | | 36 x 4 x 1.5 | 36 x 4 x 1.8 | 36 x 4 x 1.8 |
| | | | | Optional Lengths | | in | | 30, 39, 42, 45, 48, 54, 60 | | |
| | 14 | Tilt | | Back/Forward | | degree | | See Mast Chart | | |
| | 15 | Headlength | | | | in | | See Battery Chart | | |
| | 16 | Turning Radius | | | | in | | See Battery Chart | | |
| | 18 | Grade Clearance | | | | % | | See Battery Chart | | |
| | 19 | Overall Collapsed Height | | | | in | | See Mast Chart | | |
| | 20 | Overall Extended Height | | | | in | | See Mast Chart | | |
| | 21 | Power Unit Width | | | | in | | 39.8 | 39.8 | 39.8 |
| 22 | Width at Drive Tire | | | | in | | 40 | 40 | 42 | |
| Performance | 24 | Speed Travel | | Empty/Loaded | | mph | | 6.4/6.2 | 6.4/6.2 | 6.2/6.0 |
| | 25 | Speed Lift | | Empty/Loaded - TL | | fpm | | 90/51 | 90/50 | 90/48 |
| | | | | Empty/Loaded - TF | | fpm | | 73/47 | 73/46 | 73/45 |
| | | | | Empty/Loaded - TT | | fpm | | 75/45 | 75/44 | 75/43 |
| | 26 | Speed Lower | | Empty/Loaded | | fpm | | 60-80/40-60 | 60-80/40-60 | 60-80/40-60 |
| 32 | Weight, Less Battery | | | | lb | | See Mast Chart | | | |
| Chassis | 37 | Tires | | Drive | | in | | 13.5 x 6 x 8 | 13.5 x 6 x 8 | 13.5 x 7 x 8 |
| | | | | Steer | | in | | 9 x 5 x 5 | 9 x 5 x 5 | 9 x 5 x 5 |
| | 38 | Wheelbase | | Comp't 13.68 x 38.56 x 31 | | in | | 42.6 | na | na |
| | | | | Comp't 15.88 x 38.56 x 31 | | in | | 44.8 | na | na |
| | | | | Comp't 18.38 x 38.56 x 31 | | in | | 47.3 | 47.3 | na |
| | | | | Comp't 20.75 x 38.56 x 31 | | in | | na | na | 49.7 |
| | 42 | Brakes | | Applied/Released | | Mechanical/Hydraulic | | | | |
| Parking | | | | Auto-mechanical | | | | | | |
| Battery | 44 | Battery | | Type | | Lead-Acid | | | | |
| | 46 | | | Min Weight/Max Amp | | 13.68 | 1710/775 | na | na | |
| | | | | | | 15.88 | 1925/930 | na | na | |
| | | | | | | 18.38 | 2085/1085 | 2085/1085 | na | |
| | | | | | | 20.75 | na | na | 2400/1240 | |
| | | | | Max Battery Size | | in | 13.68 x 38.56 x 31 | na | na | |
| | | | | | | in | 15.88 x 38.56 x 31 | na | na | |
| | | | | | | in | 18.38 x 38.56 x 31 | 18.38 x 38.56 x 31 | na | |
| | | | | | | in | na | na | 20.75 x 38.56 x 31 | |

* Capacity reduced above 154".

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Specifications

| Models RC 3020-30, RC 3020-35 and RC 3020-40 | | | | | | | | |
|----------------------------------------------|----|--------------------|----|--------------------|--------------------|--------------------|------------|--------------------|
| Battery/Dimension | 46 | Battery | in | 13.68 x 38.56 x 31 | 15.88 x 38.56 x 31 | 18.38 x 38.56 x 31 | | 20.75 x 38.56 x 31 |
| | 2 | Model | | RC 3020-30 | RC 3020-30 | RC 3020-30 | RC 3020-35 | RC 3020-40 |
| | 15 | Headlength | in | 62.6 | 64.8 | 67.3 | 67.3 | 69.8 |
| | 16 | Turning Radius | in | 53.0 | 55.1 | 57.5 | 57.5 | 59.9 |
| | 18 | Grade Clearance | % | 42 | 40 | 38 | 38 | 36 |
| | | Right Angle Stack* | in | 62.6 | 64.8 | 67.3 | 67.3 | 69.8 |

| Models RC 3020-30, -35 and -40 | | | TL | | | TF | | | TT | | | | | QUAD | | | |
|--------------------------------|----|-----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| Mast | 9 | Lift Height† in | 106 | 130 | 154 | 106 | 130 | 154 | 154 | 190 | 208 | 226 | 241 | 240 | 246 | 258 | 268 |
| | | Free Lift** | 12 | 12 | 12 | 23 | 35 | 47 | 23 | 35 | 41 | 47 | 52 | 36 | 37.5 | 40.5 | 43 |
| | 14 | Tilt B/F degree | 10/3 | 10/3 | 10/3 | 10/3 | 10/3 | 10/3 | 7/3 | 5/2 | 5/2 | 5/2 | 5/2 | 3/2 | 3/2 | 3/2 | 3/2 |
| | 19 | Overall Collapsed Ht. in | 71 | 83 | 95 | 71 | 83 | 95 | 71 | 83 | 89 | 95 | 100 | 83 | 85.5 | 88.5 | 91 |
| | 20 | Overall Extended Ht.**in | 154 | 178 | 202 | 154 | 178 | 202 | 202 | 238 | 256 | 274 | 289 | 288 | 294 | 306 | 316 |
| Weight | 32 | Truck Weight w/o Battery*** | | | | | | | | | | | | | | | |
| | | 3020-30 Comp't. 13.68 | 5880 | 5910 | 5940 | 5810 | 5840 | 5870 | 6210 | 6390 | 6480 | 6560 | 6650 | 6750 | na | na | na |
| | | 3020-30 Comp't. 15.88 | 5690 | 5720 | 5750 | 5630 | 5660 | 5690 | 6020 | 6200 | 6290 | 6380 | 6460 | 6570 | na | na | na |
| | | 3020-30 Comp't. 18.38 | 5520 | 5550 | 5580 | 5450 | 5490 | 5520 | 5850 | 6030 | 6120 | 6200 | 6290 | 6390 | na | na | na |
| | | 3020-35 Comp't. 18.38 | 5910 | 5940 | 5980 | 5850 | 5880 | 5910 | 6240 | 6420 | 6510 | 6600 | 6680 | 6790 | na | na | na |
| | | 3020-40 Comp't. 20.75 | 6020 | 6060 | 6090 | 5960 | 5990 | 6020 | 6350 | 6530 | 6630 | 6710 | 6790 | 6900 | 6930 | 7010 | 7070 |
| Capacity | 3 | Load Capacity | | | | | | | | | | | | | | | |
| | | 3020-30 lb | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2750 | 2600 | 2500 | 2400 | 2200 | na | na | na |
| | | 3020-35 lb | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 | 3250 | 3100 | 3000‡ | 2850‡ | 2500 | na | na | na |
| | | 3020-40 lb | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 3750 | 3600 | 3500‡ | 2950‡ | 2700 | 2500 | 2300 | 2200 |

† Capacity reduced above 154".

* Add load length plus 6".

** With 48" load backrest.

*** All truck weights are with 42" forks only and standard overhead guard.

‡ Consult factory for capacities with hi-profile poly or rubber drive tires.

RC 3000 Series

Technical Information

Capacity

Model RC 3020-30: 3000 lb at 24" load center, 36-volt

Model RC 3020-35: 3500 lb at 24" load center, 36-volt

Model RC 3020-40: 4000 lb at 24" load center, 36-volt

Batteries

Battery removal from right or left side of truck. Standard battery rollers for extraction with mechanized equipment.

Standard Equipment

- 36-volt electrical system
- EV-100 LXT SCR
- Discharge indicator
- Hour meter
- Urethane covered multi-function control handle and steering tiller knob
- Suspended floor board and brake pedal
- Padded backrest with integral thigh pad
- Padded armrest
- Operator console with work surface and storage

- Bulk storage compartment
- Pencil tray
- Battery rollers
- 350 amp battery connector
- Key switch
- Color-coded wiring
- Horn
- Emergency power disconnect
- Power steering
- Crown manufactured drive and lift motor
- Load backrest
- Overhead guard

Optional Equipment

- Knee pad
- Powered retractable overhead guard
- Drive-in rack overhead guard
- Quad mast
- Positive/negative accessory cable
- Sideshifter
- Discharge indicator with lift lockout
- Battery retainer interlock switch
- Keyless on/off switch
- Corrosion conditioning
- Freezer conditioning
- Forward steering

Operator Area and Controls

The suspended floorboard and brake pedal design cushions the operator against vibration and shock. Floorboard allows for improved leg and foot movement. An additional area is provided for forward movement of the right foot. Floorboard is tilted to position operator against wrap around padded backrest and integral thigh pad. Compartment interior is large to provide for variety of postures. These features combine to give the operator maximum postural relief, which improves circulation, reduces strain and fatigue, which improves productivity.

Re-styled console provides operator with a work station/storage area while incorporating a new arm/elbow pad to further enhance operator comfort. Console also facilitates improved fork and load visibility to improve productivity. Multi-function control handle for forward and reverse travel, full feathered lift/lower and tilt. Multi-function control and steer tiller knob is enlarged to reduce grip force. Both controls are urethane covered for comfort. Control location keeps the operators posture neutral at all times which reduces fatigue.

Power disconnect has "palm strike" knob for sure actuation upon contact. Parking brake is automatically applied when operator exits truck.

Hydraulics

System includes a Class "H", Crown manufactured lift motor matched to the application to improve performance.

Precise metering of lift and tilt is provided through a spool type hydraulic control valve. Two double acting piston type tilt cylinders and ram displacement type lift cylinders are hard chrome plated for smooth operation and long life. Maximum lowering speed is limited by pressure compensating flow control and velocity fuses. Oil reservoir is designed with a 100 mesh screen at the fill location, a suction strainer, spin-on type 10 micron return line filter and a magnetic drain plug.

Steering System

Full-time power steering is standard. A geroller torque generator with low volume requirement provides consistent performance with reduced steer effort. Inside drive tire cut-out in tight turning prevents motor stalling and provides maximum maneuverability. Reverse steering standard, (forward steering optional).

Electrical System

Heavy-duty 36-volt electrical system using the GE EV-100 LXT SCR control. Total micro-processor control with on-board drivers and diagnostic capabilities. Optional handset can be used to access memory or set truck performance parameters.

Two heavy duty Crown manufactured drive motors are application designed providing high starting torque. "Current limit" protects the SCR and drive motor from high currents during acceleration and if stalled. Traction motors are fused for additional protection. All wiring is numbered and color coded for fast troubleshooting and repair.

Mast

Rolled steel outer channel masts and inner "I" beams roll on cant- ed, steel, anti-friction roller bearings for minimal current draw and long life. Mast is designed with heavy cross brace construction to provide excellent stability during lift and full extension. Telescoping mast sections nest in main upright to provide good operator visibility. Tilt cylinder mounting is positioned low for excellent forward visibility reducing product damage and increasing productivity.

Drive Unit

Two independent, totally enclosed, Crown manufactured drive units use double reduction helical/spur gears for noise reduction and strength. All gears are bathed in oil.

Brakes

Each drive unit is equipped with disc brakes mounted on the drive motor shaft. Braking is controlled by the position of a single brake pedal located on the floor of the driver compartment.

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 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.



Crown Equipment Corporation
New Bremen, Ohio 45869 USA
Tel 419-629-2311
Fax 419-629-3796
crown.com

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