

CROWN

# C-5 SERIES



IC Cushion



IC Pneumatic



# Pushing Limits. Inside and Out.

The Crown C-5 Series redefines LPG, with breakthrough innovation in every detail. From its high-performance powertrain to precise cooling, ergonomic design and intrinsic stability, the C-5 sets new standards across the board.

Customers demanded a better IC truck—with the power, control and reliability to perform in the most demanding applications, year after year—and the Crown C-5 Series delivers. We're pushing limits, so you can too.

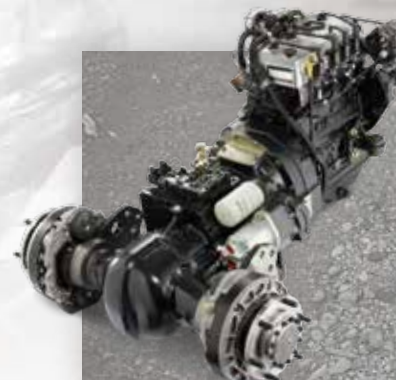
**Drive Revolutionary  
Results With Crown.**

Visit [crown.com](http://crown.com)

See the C-5 Series

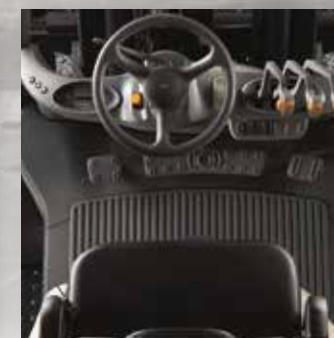
# Superior Design. Breakthrough Performance.

Crown spent thousands of hours understanding customer needs, testing trucks in demanding indoor and outdoor applications and overcoming the most persistent problems that plague typical gas trucks. The result is a completely reinvented experience: The Crown C-5 Series.



## Power.

A revolutionary engine, rugged transmission and brakes and dual radiator cooling system keep the C-5 Series performing at peak, even when the heat is on and the hours are long.



## Control.

The C-5 Series is designed inside and out for optimal comfort, confidence, stability and safety, so operator productivity can keep pace with truck performance.



## Reliability.

Less maintenance, a longer lifespan and dependable uptime add up to a lower cost of ownership and better lifetime value with the proven C-5 Series.



# Engineered to Deliver Pure Power.

To create a game-changing gas engine for the C-5, Crown combined 50 years of leadership in material handling with the engine expertise of John Deere. The result: A revolutionary engine with an unprecedented lifespan and fewer service intervals.

## Rugged Performance Features

### 70 Amp Alternator

A high-power 70 amp alternator provides ample energy to keep the battery charged and all accessories running.

### Heavy-Duty, Serpentine-Style Belt with Auto Tensioner

A wide, durable, multiribbed belt with auto tensioner eliminates the need to manually adjust engine components to maintain tension, which prolongs belt and component life.

### Gear-Driven Valve Train

A robust, gear-driven valve train eliminates the stretching and maintenance that can occur with the chains and belts in typical gas engines.

### Engine Balancing

Internal balancing shafts and rubber engine mounts virtually eliminate engine vibration, enabling smoother performance and greater operator comfort.

## Unmatched Cooling Features

### Cast Iron Cylinder Head

The C-5's rugged, cast iron cylinder head provides up to 60 percent better heat resiliency than typical aluminum heads, reducing warpage and increasing lifespan.

### Oil Cooler and 8 Quart Oil Capacity

An 8 quart oil pan and external oil cooler help reduce oil temperatures. These standard features help maintain oil viscosity, extending engine life and allowing 1,000 hour oil change intervals.

## POWERTRAIN LIFESPAN 20,000 hrs.

## Rugged, High-Performance Components

Designed and manufactured to deliver more power and greater force, the C-5's industrial 2.4 liter engine and single-speed, powershift transaxle offer twice the lifespan of typical powertrains.

### High-Temperature Seals Throughout

The C-5 transaxle uses high temperature Viton seals and O-rings which prolong life, avoiding leaks for optimal component protection.

### Robust Cast Iron Housings

Rugged cast iron transmission and axle housings provide thermal and impact protection.

### Large Capacity Industrial Transmission Filter

The dual radiator keeps the transmission fluid cool, the large industrial sized filter keeps it clean.

### Gear Driven Hydraulic Pump

The main hydraulic system pump is wet gear driven. The gears continually run in transmission fluid, extending life and requiring no maintenance.

### Larger Axle and Bearing Diameters

Extra large axles and bearings provide strength and durability for long life.



### Crown Power Brake

Crown's exclusive Power Brake System, standard on C-5 pneumatic models (super-elastic tires), delivers durability and performance advantages that virtually eliminate brake maintenance.

**93%**  
Less Maintenance

The Crown Power Brake is almost fully enclosed, keeping dirt and debris out and practically eliminating the need for maintenance.

**90%**  
Larger Brake Pad

Crown's full-circle friction disk is up to 90 percent larger than conventional drum brakes, resulting in one of the toughest, longest-lasting brakes on the market.

**3X**  
Longer Lifespan

C-5 brakes adjust themselves and last three times longer than typical brakes—up to 10,000 hours for many customers.





## Hot Problems. Cool Solutions.

Overheating is one of the biggest threats to an internal combustion engine. Inefficient cooling can cause reduced performance, component damage or even total engine failure. That's why Crown developed a **standard** cooling system that cools the engine more efficiently, increasing truck performance and extending engine life.

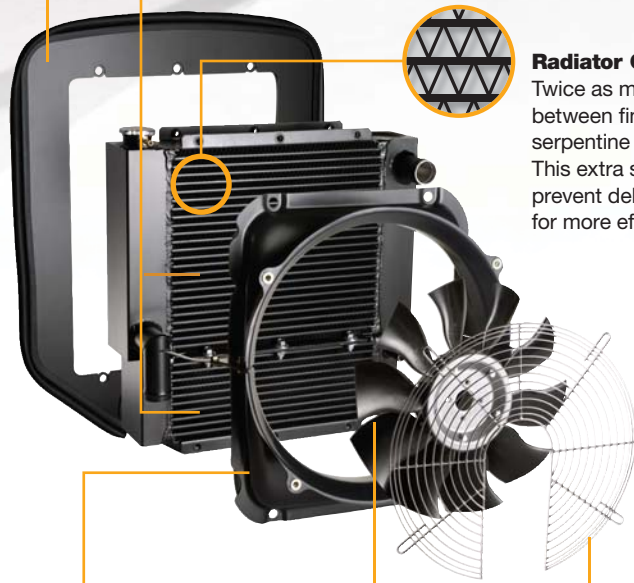
With separate cooling for the engine and transmission and reduced potential for debris build-up, the C-5 provides better heat management to keep your trucks moving when the heat is on.

**Recirculation Shield**  
Prevents hot air from reentering the radiator.

**Dual Radiator**  
Provides separate cooling for engine and transmission, plus large openings and heavy-gauge aluminum for better airflow and durability.



**Radiator Core**  
Twice as much space between fins than typical serpentine style radiators. This extra space helps prevent debris build-up for more effective cooling.



**Custom Venturi Shroud**  
Efficiently directs airflow throughout the entire radiator surface.

**Ten-Blade Fan**  
Increases airflow through the radiator.

**Debris Grill**  
Prohibits large debris from entering the cooling system.

## Dependable Cooling on Demand.

Pushing lift trucks to their limit is a fact of life for modern operations, but doing so risks lost productivity or costly truck damage. To solve this universal problem, Crown engineered the **optional** On-Demand Cooling (ODC) System. It delivers the powerful combination of precise cooling and radiator clearing for better efficiency, increased uptime and cost savings.

### On-Demand Cooling

Crown's On-Demand Cooling option enhances the C-5's standard dual radiator by controlling the fan speed independently of engine speed and direction, enabling precise management of airflow.



### Radiator Clearing and Precise Cooling

#### Manage Temperature, Debris and Costs:

LPG trucks literally vacuum debris from the warehouse floor, depositing it in the radiator to accumulate day after day. Cleaning means downtime, but failing to do so risks diminished performance and truck failure.

Crown's On-Demand Cooling option controls the fan independent of the engine, automatically reversing to clear debris from the radiator with each engine start.

The C-5's fan also changes speed automatically to manage engine and transmission temperatures. In addition, the fan operates 30% faster at idle to keep the powertrain cool.

**The Bottom Line: Cost savings, improved efficiency and increased uptime.**



#### Better Heat Management

A counterweight wedge and louvers deflect heat and exhaust downward and away during reverse travel, enhancing operator comfort and heat management.



# Comfort, Confidence and Control.

The C-5's outstanding power is matched only by its superior driveability. Operators can count on smooth handling and ease in every action, whether traveling, turning, lifting or loading and unloading. Smart use of steel, operator-forward design, intrinsic stability and easy-access controls add up to help operators get more done.

### Access and Visibility

Every control is designed for the combination of optimum access while supporting visibility and easy truck entry/exit.

### Braking

The wide brake pedal lets operators brake easily from multiple foot positions, which reduces fatigue over the course of the shift. When equipped with Crown's Power Brake system, the brake requires 53% less pedal effort and offers a one-touch electric park brake.

### Operator Space

From more headroom and convenient hand-holds, to a large step and floorboard, everything on this truck is about comfort and easy access.



### Access 1 2 3® Comprehensive System Control

- Adjustable speed limits on every C-5
- PIN codes enable operator-specific performance
- Onboard diagnostic, no handset required

### eSmart Accurate Fuel Tracking

- Patent-pending technology that monitors fuel pressure and temperature
- Industry-leading productivity for fuel economy
- Displays instantaneous, average and total fuel usage



### Crown FlexSeat™

- Replaceable components for easy maintenance
- Wide, durable, flexible seat for optimal comfort
- Inherent suspension to absorb shock and vibration



### Full-Suspension Seat

- Adjustable backrest and lumbar support
- Operator weight adjustment
- Fore-aft adjustment



# Safety and Stability.

Crown applied decades of expertise with counterbalanced trucks to ensure static and dynamic stability with the C-5. The Crown Intrinsic Stability System® combines engineering, manufacturing and integrated technology to proactively ensure optimal safety and performance.

## Intrinsic Stability Features

### More Mass

Greater mass in the right places equates to added strength and confidence. Crown uses extra steel where it matters most to make the C-5 stronger and more stable.

### Dead-Engine Braking and Steering

C-5 Series trucks retain braking and steering functions if the engine shuts down unexpectedly.

### Hill Hold

Crown's standard hill hold feature keeps the truck in place while in gear on a hill, without requiring constant pressure on the brake pedal.

### Tilt Interlock and Speed Control

Crown Access 1 2 3 technology continually monitors the C-5's degree of tilt, fork height and travel speed, limiting the possibility of a tip over.



### I-Beam Stability

The C-5 Series mast outperforms in all three strength ratings: longitudinal and lateral stiffness and torsional resistance. Handling heavy loads at height is no problem with the C-5's "I" Beam mast construction, which enables dependable performance at height for greater operator confidence and productivity.



### 360° Visibility

A low counterweight, high seat, forward operator position, slanted cross braces and open-mast design provide superior visibility forward, backward and upward.



#### Cabins

Crown offers fully enclosed hard cabin and soft cabin options to ensure operator comfort and convenience, even in the harshest conditions.

## Versatility to Excel in Any Application.

With pneumatic and cushion models—plus dozens of options, attachments and accessories—the C-5 Series is more than a match for even the most demanding and specialized applications.



#### Carriage Options

Crown offers a variety of standard and wide carriage options to match application requirements.



#### Attachments

Crown designed the C-5 to work with a full range of attachments to handle any kind of load. Whether you need a rotator, push-pull, single-double, carton or paper roll clamp or more, the Crown C-5 can deliver.



#### Tires

The C-5 Series can be equipped with cushion or super-elastic (pneumatic) tires; both are available in a wide-track configuration, while the super-elastic also offers a dual-drive option.



#### Reverse Travel Handle/Horn Option

In addition to a variety of WorkAssist® options, Crown's Reverse Travel Handle/Horn enables operators to comfortably grip the handle and conveniently access the horn in heavy reverse travel applications.

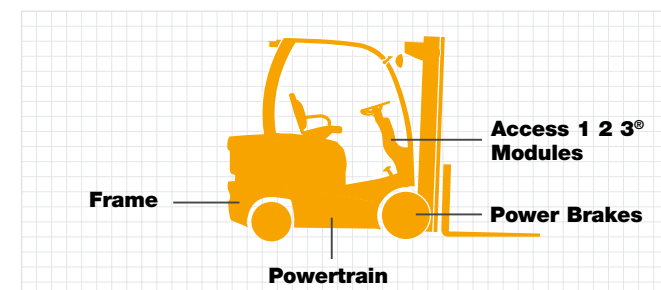
## Reliability for Unprecedented Uptime.

The Crown C-5 Series is engineered for uptime, and backed by cost-saving, productivity-enhancing features including long-term warranties and a global support system. When it comes to total lifetime value, Crown is the clear leader.

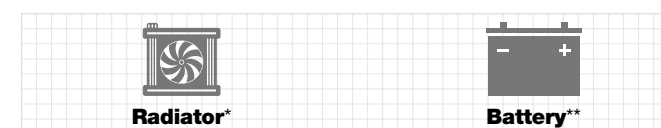
### Leading Warranties

Customers can rest assured that Crown trucks are ready to serve, delivering dependable performance and the lowest cost of ownership over a long, productive lifetime.

**3 Year Warranty** ▶ **6,000 hrs.**



**2 Year Warranty** ▶ **4,000 hrs.**



\* ODC only.

\*\* Severe Duty battery only.

### A Place For Everything

The C-5 Series truck provides standing access to components to make service easier and faster than on other IC trucks.

### More uptime for your money

Crown's integrated approach combines truck feedback with diagnostics, Crown-made parts and dedicated service teams to give you more uptime and the lowest total cost of ownership.

**InfoLink**

**InfoLink** is a wireless operator and fleet management solution that puts the power of accurate, up-to-date, business metrics right at your fingertips.

**C-5 infopoint**

**Crown's InfoPoint Quick Reference Guide** and on-truck component maps provide technicians with vital information to quickly, accurately and easily resolve issues without wiring diagrams or schematics.

**Integrity Service System**

**Crown's Integrity Parts and Integrity Service System** solutions ensure long-term truck performance by matching trained technicians with Crown-made parts for long-lasting performance. That's a major difference with Crown.

### Put the C-5 to Work for You.

Contact your local representative for a demonstration

**Visit crown.com**  
See the C-5 Series



Printed on elemental chlorine free and  
sustainably forested paper.



**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.**

**Crown Equipment Corporation**  
New Bremen, Ohio 45869 USA  
**Tel** 419-629-2311  
**Fax** 419-629-3796  
[crown.com](http://crown.com)

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

Notice: Not all products and product features are available  
in all countries in which this literature is published.

Crown, the Crown logo, the color beige,  
the Momentum Mark, Access 1 2 3, InfoLink,  
Integrity Service System, Integrity Service and Parts  
System, InfoPoint, Intrinsic Stability System, FlexSeat,  
WorkAssist, and the ecologic logo are trademarks  
of Crown Equipment Corporation.

Copyright 2014 Crown Equipment Corporation  
SF19083 Rev. 8/14  
Printed in U.S.A.