



A Century of Innovation



*Rail King Mobile Railcar Movers*

## Quality. Dependability. Unmatched Support.

Since 1902, Stewart & Stevenson has served business and industry with products that efficiently, dependably and economically get the job done, complemented with comprehensive aftermarket service and support.

### Rail King Mobile Railcar Mover

#### The Best Value in the Industry

For more than 100 years, Stewart & Stevenson has designed and manufactured specialized equipment to serve the needs of industry. Stewart & Stevenson's Rail King mobile railcar movers, developed in 1990 and produced in five technologically improved generations since, support railcar switching operations throughout North America and overseas. Warehousing companies, chemical and refining plants, cement facilities, the grain and feed industry, along with Class I railroad companies, utilize the power of Rail King mobile railcar movers to increase productivity in their railcar switching operations.

Available in several reliable, efficient and cost-effective models, Rail King provides tractive effort ratings of up to 33,000 pounds single-coupled, and up to 49,250 pounds double coupled.

Based on our customers' feedback, Rail King is considered the industry leader and provides the Best Value for the investment. Engineered to maximize safety, efficiency and operator comfort, Rail King offers:

- Exceptional performance, reliability, and dependability
- Smooth, comfortable ride on the rail
- Easy to use controls
- Uncomplicated to service and maintain
- Substantially reduced operation and maintenance costs

As a truly integrated solutions provider, Stewart & Stevenson and our dealers offer a broad array of support services to keep your railcar switching operations on track.



[www.railking.net](http://www.railking.net)



## G4 & G5 Rail King—Innovation Continues



**G4 Rail King**, the fourth generation of Rail King introduced in 2010, features new technology and improved design features. Among them:

- **Royalglide — the new Three-Point Platform Mounting System**  
Designed to control vibration, noise level and improve operator comfort, this no-maintenance suspension system virtually eliminates rail shock and vibration to the cab, resulting in exceptional ride quality and performance.
- **Simplified Power Train** — links a Cummins QSB engine, Funk DF 150 4-speed transmission, John Deere axles with no spin, inner planetary gear sets and wet disc brakes. Free-floating mounts allow axles to move up and down in the frame, enhancing traction. Four large rubber isolators protect from rail shock and provide a smooth ride.
- **Simplified Hydraulic System** — features a single pressure-compensated hydraulic pump, simple push button controls and a central manifold for ease of service.
- **The Stewart & Stevenson patented Cushion Coupler System** — features couplers made of fabricated steel (not a casting) and huge shock absorbing isolators pressed into the frame. The advanced design of the weight transfer system automatically enhances tractive effort for better pulling power.



**G5 Rail King**, our fifth generation Rail King evolution introduced in 2011 for wide cab models, utilizes the innovations of the G4 series and adds the latest Tier 4i low emission engine technology and a PLC based electrical control system, seamlessly integrated to provide customers with the well-known Rail King dependability.

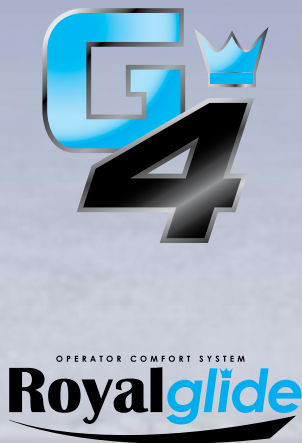
### Designed for Versatility

- As in previous generations of Rail King models, both the G4 and G5 series have independent road wheels and rail wheels for quick, easy mobility on both rail and roadways; an enclosed, insulated cab with unsurpassed visibility for operator safety and efficiency, and a center console with easy view instrument panel.
- The G4 series Rail King is available in side-mount cab configuration with dual direction controls, front and rear facing.
- The G5 Rail King is available in our full-width cab models, which feature two independent operator control stations, left and right.

Many options are available. Tailor the Rail King to fit your needs. We offer a wide selection of optional equipment to customize the Rail King to your specific application. Some of the most popular options include: cab air conditioning, centralized lubrication, remote control and cold weather packages.



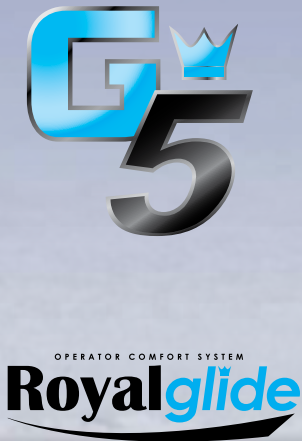
## Standard Features



- **360° Visibility** — Includes direct line of sight to both couplers
- **New Sand Box Design**
- **Engine Air Precleaner**
- **Drop Down Pneumatic Valve Tray** — Easy access to pneumatic components
- **Bumpers** — Full width to protect the undercarriage and drive train
- **Complete Lighting Package**
- **Operator Controls** — Dual operating stations with simple, easy and safe push button controls
- **Royalglide Operator Comfort System**
- **Frame** — Heavy-duty, welded from 2" steel plate for added strength and durability
- **Rail and Road Drive** — Designed for easy transition between road and rail, vastly improved turning radius
- **Railwheels** — 28" diameter heat-treated cast steel
- **Brakes**
  - Rail Axle: inboard multiple wet-disk brakes; protected from contaminants and spark-free for regulatory compliance in hazardous environments
  - Road wheel: heavy-duty shoe and drum
  - Train Air: high capacity train air supply system
- **Patented Cushion Coupler System** — This heavy-duty coupler system operates on a center pivot, housed in a massive synthetic rubber cushion pressed in both sides of the frame
- **Simple Powertrain** — Cummins six-cylinder, 4-cycle, turbocharged diesel engine connected to a Funk 4-speed transmission, full power shift with automatic speed selection out to heavy duty John Deere no spin axles.



## G5 Features



### • Cummins QSB Tier 4i Low Emission Engine

- Better fuel economy — utilizes ultra low sulfur diesel
- Lower operating cost
- Better performance
- Complete engineered system package – air filter to exhaust
- Electronic engine management system

### • Newly-designed SAE J1939 CANBUS Electrical System

- Proven reliable in the harshest off-road industrial environment
- Simplified wiring and component installation
- Provides seamless high speed data communication between power train components
- Enhanced error detection and fault confinement, improved diagnostic capability
- Allows for “plug & play” features to be conveniently added

### • PLC Based Mobile Controller

- Centralized system design, programmable for enhanced operator safety and comfort
- IP 67 Protection Rating – one of the industry’s highest
- Tested and approved for railway applications
- Emergency Stop feature standard

### • Full-color LCD Display in Cab

- Bright – crisp, easy view programmable display
- Multi function / Multi page
- IP 67 Protection Rating
- Allows operators to view real time engine, transmission and Rail King operating parameters, as well as active and stored trouble/ diagnostic codes
- Integrated alert buzzer
- Function keys with tactile feedback

### • Multicolor LED Rocker Switch Panels

- Programmable to provide immediate feedback to operator
- Changes color to acknowledge command or alert of a problem
- Vibration/shock/moisture resistant for harsh environments
- Easy to see and use
- Optical interrupters – no contacts to wear out

## Best Value In Industry

### Engineering & Design

Stewart & Stevenson's engineering design teams provide the foundation for the state-of-the-art customized equipment the company manufactures. Using modern 3-D technology, prototype designs for innovative equipment are built in the computer before being put into production on lean manufacturing flow lines. Comprehensive testing ensures the delivered product is certifiably of the highest quality and fulfills all customer expectations.

The new changes to the G4 and G5 Rail King product line are fully documented on Inventor 3D CAD Modeling system. Engineering uses this technology to build the Rail King in the computer prior to releasing drawings to the manufacturing floor. The 3D CAD modeling system also allows Stewart & Stevenson to detail components, view and control documents and create a full 3D parts manual.

### Quality Systems & Processes

Dependable, reliable and durable equipment does not just happen. It takes teamwork and dedication by true craftsmen and strict adherence to a comprehensive set of standards to build the best equipment. Stewart & Stevenson is serious about manufacturing the Rail King product to exceed our customers' expectations. Our comprehensive Quality Management System has been certified to meet the requirements of ISO 9001:2000. We also utilize the 5S methodology that focuses on effective work place organization, visual communication and standardized work procedures.

Produced on Stewart & Stevenson's Houston manufacturing flow line, Rail King is engineered to provide the Best Value in the industry.





## Added Value

### **Rental**

Stewart & Stevenson Rail King and its dealer network operate one of the largest mobile railcar mover rental programs. Technicians utilizing dedicated service/PM trucks assure our rental fleet is operational and available at all times.

### **Reconditioned Equipment**

Stewart & Stevenson Rail King and its dealer network perform a comprehensive inspection on used mobile railcar movers, reconditions them with replacement OEM parts and then offers for sale quality, dependable, reconditioned equipment at substantial savings.

### **Financing**

Stewart & Stevenson and its dealer network have established long-term relationships with financial institutions that provide our clients with creative financial structures designed to address clients' unique operational and budgetary requirements.

### **Service & Maintenance**

Stewart & Stevenson Rail King and its dealer network can service all makes and models of railcar movers. Whether for a full fleet or just one railcar mover, our custom tailored planned maintenance (PM) programs meet each client's specific needs.

### **Parts Management**

Stewart & Stevenson and its Rail King dealer network provides factory-warranted new and remanufactured replacement parts from our in-house parts department.

### **Training**

Operator and technical training programs on Rail King functions and controls, safe operation and daily operations check points are available on-site and through Stewart & Stevenson's Training Center in Houston, Texas.

### **TrackGlass**

TrackGlass, the non-toxic, odorless, non-flammable, and non-sparking traction enhancing media for railcar movers, is available through Stewart & Stevenson and its dealer network parts departments.



# **Rail King<sup>®</sup>**

**MOBILE RAILCAR MOVER**

---

## **Contact Us**

Phone: 713-671-6300

Email: [railking@ssss.com](mailto:railking@ssss.com)

Web: [www.railking.net](http://www.railking.net)

8787 East Freeway

Houston, TX 77029

---



**A Century of Innovation**

**[www.stewartandstevenson.com](http://www.stewartandstevenson.com)**