



Safety Features

Guide



Your Resource
for Lift Truck Safety

Designed for Safety



Crown builds innovative safety features into the powered lift trucks we manufacture. Over the years, Crown has developed groundbreaking technology and designs that offer safety improvements for operators and pedestrians.

Innovations such as our stand-up side-stance design and Intrinsic Stability System® allow your operators to perform with confidence, knowing their truck is designed to help keep them safe.

Perform with confidence, knowing your truck is designed to help keep you safe.

Standard Safety Features

Crown engineers have designed a number of standard safety features to help promote safe operation. To learn more about specific features and options of Crown's lift trucks, contact your [local Crown dealer](#).



Seat Restraints

All Crown sit-down rider counterbalance models incorporate seat belts and hip restraints designed to help keep the operator within the running lines of the truck in case of a tip over. These restraints have proven to reduce injuries if properly utilized and maintained. To accommodate various application and operator needs, Crown has various seat and restraint system products, including suspension seats and hip restraint systems, available for Crown lift truck models.



Stand-up Rider Floor Board Pedal and Sensor, Entry Bar™ Safety Switch

Crown's stand-up rider counterbalance and rider reach lift trucks afford correct operator positioning and control by incorporating independent floorboard pedals/sensors for the operator's feet. The suspension floorboard also provides a cushioned, shock-absorbing ride, enhancing operator comfort.

To provide additional protection, the Entry Bar safety switch is positioned at the opening to the operator compartment on all stand-up end-controlled rider trucks and will slow the truck to a stop, sound an alert, and display a message if the operator attempts to drive the truck with part of the foot resting on the ledge. This feature has been standard equipment on the RC and RR Series since February 1998, and can be added to trucks manufactured before 1998. Ask your [local Crown dealer](#) or see the [Entry Bar™ Safety Switch Product Reference](#) (PF11337) for more information.



Stand-up Rider Posts and Extensions

All current Crown stand-up rider counterbalance and rider reach lift trucks have backrest extensions that are 57.5 inches from the floor in the area behind the operator. Third corner posts are also standard. Ask your [local Crown dealer](#) or view the Rear Posts for Stand-Up Riders Product Reference (SF14745) for more details.

Third post and fourth corner extension kits are available on previous RC and RR Series models. Ask your [local Crown dealer](#) or see [Product Information Bulletin's 07-07-01](#) and [07-07-02](#) for more information.



Intrinsic Stability System®

Crown's Intrinsic Stability System uses technology to monitor and control key lift truck functions and movements to enhance stability and safety and give the operator an added level of confidence. The Intrinsic Stability System helps the operator maintain constant speed on ramps and provides travel and cornering speed control based on variables such as load weight, lift height, steer angle and direction of travel.



OnTrac® Anti-Slip Traction Control

Crown engineers developed the innovative OnTrac Anti-Slip Traction Control to improve lift truck traction control in environments with slippery and/or wet floors. This technology uses the lift truck's control system to determine whether the truck has lost traction.

This exceptional lift truck traction control decreases tire wear, helps reduce accidents and product damage, and improves operator confidence in slick conditions, such as refrigerated or freezer applications.

OnTrac Anti-Slip Traction Control is standard on certain models of Crown's narrow-aisle reach trucks.



Variable Side-Stance

In 1972, Crown designers and engineers pioneered the side-stance lift truck, technology that changed the industry's view on operators' work area for stand-up rider counterbalance and rider reach lift trucks. Today it's regarded as the industry standard by lift truck manufacturers.

The Crown rear entry variable side-stance design requires very little head movement to maintain excellent visibility in either direction of travel with no change in the operator's orientation to the lift truck's controls. In this position, the operator is afforded a clear view of the direction of travel, helping to avoid collision with fixed objects, other moving vehicles and pedestrians. Since the location of the controls and the pedals remains constant relative to the operator, truck control is more intuitive. The design of the operator compartment with the variable side stance feature also improves operator stability by providing five points of contact during lift truck operation.

Variable side-stance is available on these current production lift trucks:

- RC 5500 Series Stand-up Rider Counterbalance Trucks
- RD 5700 Series Narrow-aisle Rider Reach Trucks
- RR 5700 Series Narrow-aisle Rider Reach Trucks
- RM 6000 Series Narrow-aisle Rider Reach Trucks
- PR 4500 Series Rider Pallet Trucks
- RT 4000 Series Rider Pallet Trucks



Fall Protection

Falls from heights are among the leading causes of serious work-related injuries and deaths. OSHA defines fall protection as “any equipment, device or system that prevents a worker from falling from an elevation or mitigates the effect of such a fall.”

OSHA has issued a final rule on Personal Fall Protection Systems to better protect workers in general industry from these hazards by updating and clarifying standards and adding training and inspection requirements. The final rule prohibits the use of body belts as part of a personal fall arrest system. This change affects all users of personal fall protection for Crown Turret and Stockpicker trucks. Crown certifies the anchorages or tie off points used as part of the personal fall arrest system on Crown Turret and Stockpicker trucks have been tested and meet the static 5,000 pound (22.2 kN) OSHA requirement.

The ANSI/ITSDF B56.1 standard regarding personal fall protection is based on operator weight. Please refer to the chart below for the fall protection an operator may use based on their weight.

Fig.A Approved Fall Protection By Operator Weight (lbs)

Operator Weights (lbs)			
Fall Protection/Prevention Device	< 311 ¹	311 - 400 ¹	> 400 ¹
Full Body Harness	•	•	•
Energy Absorber - Max Total Length (6 ft)	• ²		
Self-Retracting Lanyard		•	• ³
Maximum Arresting Force Permitted (lbs)	1800	1800	1800

¹ Truck Capacity shall be reduced by the operator(s) weight in excess of 220 lbs

² Energy – Absorbing Lanyard is prohibited by CAL-OSHA in the state of California.

³ All components of the fall protection system shall be rated for the operator's weight.

A full body harness (size L/XL) and a self-retracting lanyard is standard equipment on the Crown SP Series and a full body harness (size L/XL) with an energy absorbing lanyard is standard on the Crown TSP Series turret trucks. Other sized full body harnesses are available.

More information on these devices can be found in the [Crown One Source Lift Truck Parts® catalog](#) or may be obtained from your [local Crown dealer](#).

Options and Accessories

Crown meets your specialized needs by offering various accessories and options. View the [Crown One Source Lift Truck Parts catalog](#) or contact your [local Crown dealer](#) for more information.



Presence Warning Devices

Audible or visual alerts are sometimes used to emphasize the presence of a lift truck in the vicinity of pedestrians. Flashing lights are standard on all Crown elevated operator models such as stockpickers and turret trucks and can be ordered as an option on other Crown models.

Optional travel alarms can be set to sound when the lift truck is traveling forward, in reverse or both and provide an audible signal when the truck is traveling in the designated direction.

Safety considerations and dangers associated with audible travel alarms and 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.

The employer’s decision whether to add a warning device is environment specific. More information on these devices is available in the Crown One Source catalog or from your [local Crown dealer](#). Installation services are also available.



Overhead Guard Covers

Guard covers can be added in areas where there is a risk of very small items falling through the spaces in overhead guards. They may be constructed of expanded metal or Lexan®. Guard covers can restrict visibility due to glare, age or accumulated dirt and debris resulting from inadequate cleaning and maintenance.



Lift Limiting Devices

Installation of lift limiting devices to prevent contact with overhead obstructions may be permanent or may be equipped with operator-controlled overrides to allow higher lift in clear areas. Lift limiting devices can be installed on most Crown models and are designed to prevent contact with fixtures such as mezzanines, conveyors, sprinklers, gas lines or lighting. Your [local Crown dealer](#) can provide more information.

Safety Labels

Every Crown lift truck includes warning and caution labels with important information to avoid injury.



Replacement kits are available from your [local Crown dealer](#). Part numbers for model-specific safety labels, operator and service manuals can be found on the Service Manuals and Safety Labels page on [crown.com](#).

Operator Manuals

Every Crown operator manual includes important information to avoid injury.



[Electronic Operator Manuals](#) are available on [crown.com](#). Replacement operator manuals, service manuals and safety label kits are available from your local Crown dealer. You can locate part numbers, cost and your nearest Crown dealer using the [Manual and Safety Label Lookup Tool](#) on [crown.com](#).



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

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