

THE

QLK-150

The Ultimate Docking System



Dock. Drive. Discover.



DiOR
DRIVE-IN OCCUPANT RESTRAINT

The DiOR Drive-In Occupant Restraint system is designed to work exclusively with the QLK series.

[Details inside.](#)

DiOR

DRIVE-IN OCCUPANT RESTRAINT



Adding the DiOR to a QLK system amounts to a new level of safety, security, independence and convenience. DiOR's pivoting arms move forward as you enter with your power chair, providing you with the right lap belt angles every time.

Surpassing all previous standards of occupant securement safety, DiOR is the first and only crash tested occupant belt for docking systems.



DiOR Works with:

Open Armrest Wheelchairs

Passengers of power chairs with open armrests or armrests that swing upward can drive right into the DiOR system. DiOR provides a clear path for the vehicle's lap belt webbing.

Fixed Armrest Wheelchairs

DiOR's lap belt can be disconnected and arms locked forward to accommodate passengers without open armrests. The buckles feature pliable stiffeners to keep within easy reach for feeding the lap belt through the opening in the armrest.

OEM Seats

When original equipment manufacturer seats are reconnected to the vehicle, the lap/shoulder belt has the same type of latching connection as an OEM setup. Passengers can simply grab the belt and connect it to the aisle-side buckle of the DiOR arm, or easily remove the DiOR system and use the OEM lap belt as intended.

OEM Shoulder Belt

Here, the DiOR lap /shoulder belt is easily removed to allow use of the OEM shoulder belt in its place.

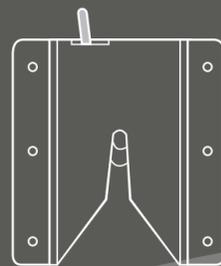
THE QLK-150



When designing the QLK-150 from the ground up, we set out to redefine a few things. Freedom, for instance, is not just traveling from one place to another but rather the confidence to do so. Confidence to cross thresholds, to navigate various conditions, to go anywhere. We created the QLK-150 for maximum flexibility in every unique situation.

Your Safety in Mind

The QLK-150 continues our tradition of relentless testing and development. A first for docking systems, it is tested in Forward, Rearward and Sideways configuration knowing that every installation is unique. Also a first, the QLK-150 is the first and only docking system to pass the crash test specifications per WC19 standards – the next generation of crash-tested wheelchair designs.



Improve Your Experience

When fractions of an inch make a huge difference, the flush surface gives you more clearance (3/16" - 5mm) for everyday traveling. Interference with casters is significantly reduced thanks to a shortened footprint. And along with a tapered channel to help guide the docking bolt in, you can forget about the usual turns, snags, and crashes of docking engagement and get on with your journey.



Dash Control:

Our new slim and flexible dash control is a peel 'n stick design that conforms to vehicle interiors to mount in convenient locations. Even though it is compact in overall size, the touch controls are more than twice the size of other docking systems – and embedded LED's alert you to the system status.

Thin and flexible enough to flow with the shape of any dashboard area or surface



Removable Cover

With Plug and Play servicing to ensure easier maintenance with less downtime.

Heat Treated with Trivalent Coating

For strength, durability and environmentally friendly corrosion-resistance.

Limit-Switch and Over-Torque Protection

Incorporated to ensure that everyday use and regular maintenance inspections won't affect the performance of the QLK-150.



Reaching New Heights, and Lows

For those wanting to maximize wheelchair clearance and prefer a more 'OEM' look, we offer several floor mounts to raise or lower the docking system height from 1.5" (38mm) to 4" (100mm). By offering several base heights, installers can customize the mounting position so it accommodates different wheelchair applications and reduces the chance that the mounting bolt will get caught by uneven ground, thresholds and ramps. Competitive products don't offer these options requiring "field modifications" that have not undergone crash tests.

Tapered Channel with Flush Surface

Helps guide the wheelchair into the receiver channel making docking easier and more reliable.

Greater Electrical Reliability

New design eliminates half of the electrical components necessary with other docking systems.

Optional Floor Mounts

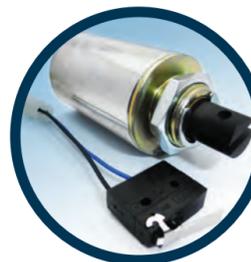
Maximizes wheelchair pin height and improves clearance with everyday thresholds.

New Electronic Features of the QLK-150



SMART Electronic Control Module (ECM)

Microprocessor controller utilizes the latest technology. The sleep mode functionality virtually eliminates current leakage, specially designed circuit paths prevent failures during installation or in the field, and PWM (Pulse Width Modulation) design to control heating.



Plug N' Play Servicing

The QLK-150 is easier than ever to maintain, and features our original removable cover. All electrical components feature quick connectors and are accessed by three standard bolts.



Improved Installations

Our SMART (ECM) features screw-terminal connectors to reduce the need for crimping and soldering, facilitating proper routing of cables through holes and vehicle components. This helps make every installation look OEM.

Customization and Flexibility

Every installation is unique. From optional floor mounts to new stabilization options, the QLK-150 caters to an expansion of new possibilities while still relying on a design that is proven. Q'Straint has been securing wheelchairs for over 25 years, so you can be assured that the QLK-150 builds upon our tradition of continuous improvement.

QLK-150 Features and Benefits:

Extensive Crash Testing

First and only system tested to higher WC/19 wheelchair loads; and also the only system tested Forward, Rearward and Sideways.

Flush Surface

Eliminates "snags" and gives users an immediate 3/16" (5mm) of additional bolt clearance.

Reduced Footprint

Shortened design front to back by 1.5" (38mm), retaining original hole pattern.

Slim & Flexible Dash Control

Compact design has a much larger touch area and features embedded LED indicators showing system status.

Tapered Channel

Helps smoothly guide users into place.

Sleep Function

When user exits docking base, system draws 76.5 micro amps (0.0000765 Amps); About 5 times less than other docking systems.

Low Current Draw

Solenoid release draws between 4.2 - 9.1 amps -- less than half of other products.

Reduced Electrical Components

New design only requires a single micro-switch and eliminates thermal switch.

Screw-Terminal Connectors

Connectors are easily removed for faster wire routing, and eliminates additional crimping and soldering.

Plug & Play Serviceability

Solenoid and limit switch feature quick connectors.

Eco-friendly Steel Coating

Our high grade steel features more eco-friendly coating, to prevent corrosion and reduce the impact on the environment.

SMART (ECM)

Newly designed Micro-processor controller.

Removable Cover

Faster servicing and maintenance.

Lowest/Highest Clearance

Optional base mounts allow for the docking system to be mounted from 1.5" (38mm) to 4" (100mm)

Over-Torque Protection

Prevents "locking up" if internal hardware is over-torqued.

Heat-Treatment

All components except for base mounts (which often require field modification for proper securement) are treated to increase strength, and reduce entry channel warping.

DiOR Features and Benefits:

Exclusive Power Wheelchair Design

Adapts to any power wheelchair on the market in driver position, front passenger or rear-entry vehicles. Manual wheelchairs may also be used, except in cases where the wheels interfere with the proper occupant belt angles.

30 MPH/20G Crash Testing

Crash tested at 30 mph/20G to create ideal occupant securement lap and shoulder belt angles for docking system.

Easy, Value-Preserving Vehicle Installation

DiOR features easy installation into a conversion van's existing wall-to-wall L-track with no need for additional hole drilling, carpet cutting or other modifications that can reduce the resale value of the vehicle.

Pivoting Arms for Perfect Angles

Hard durometer rubber pivot accommodates the locking clutch assembly and enables DiOR multi-axis arms to pivot forward and inward with occupant, synching up to their hip for perfect angles. Arms can be adjusted up or down by installer for custom fit, and three L-track locations on floor provide front and back movement to oblige different size chairs. Slim profile (less than 1.5") works with variety of applications and wide wheelchairs.

Belt Adaptability for Open and Closed Armrests

DiOR's multi-attachment lap and shoulder occupant belt works equally well with open and closed armrest power chairs and features a dangle resistant loop that organizes excess webbing. (It can even be used with OEM seats when space permits.) The entire occupant belt can be disconnected and removed quickly.

Convenient OEM Belt Attachment

Shoulder belt vehicle attachment mounts directly to OEM attachment point and works in conjunction with OEM shoulder belt.

Easy-to-Manage Buckle Ends with Integrated Belt Stiffeners

Female buckles feature belt stiffeners and removable plastic inserts to help keep the lap belt above the occupant's knees for unimpeded drive in/drive out movement. Belt stiffeners allow the occupant to manually bend and hold the buckle in place for optimal securement positioning.

Removable Panel

Maintenance access panel for installation minimizes visible hardware for smoother, cleaner look.



Interactive Bracket List

Our QLK Interactive Bracket List will help you ensure the proper fit, every time.

Visit www.qstraint.com/brackets for a complete database of compatible wheelchairs.

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