

# Interlock Bike Rack

Interior transit bicycle rack (various part numbers)

## Features

- Rack components easily stored out of the way when not in use so the seat can be utilized
- No aisle interference when bike is stowed
- Clean design and function compliments coach design
- Loading and unloading process involves minimal lifting and allows the rider two-handed contact on the bicycle at all times
- Minimal lateral movement due to the secure capturing system of the front wheel so the bicycle will stay put even under quick stops and hard turns

**Motivated by the need for more capacity, this rack was designed with a safe and secure front and rear wheel capturing system that takes seconds to load and unload. This system is engineered to adapt to varying interior spaces of transit vehicles, utilizing flexible room with its under-the-seat mounting method. Install one or many of these racks inside the vehicle depending on the bicycle capacity needed.**

Dimensions and Capacities	Benefit
Designed to occupy open space or one folded double seat.	Utilizing a pre-existing space.
The carrier accommodates all bicycle types with a 16 – 29” wheel diameter, up to 2.5” wide tires, and up to 48” wheel base (excluding tandems, electrics, and recumbent bicycles.)	Because of the unique weight activated wheel clamps, the rack always adjusts to the tire size inserted in the rack. This accounts for the majority of the bicycles commonly used. Rack was not designed or intended to be used with any motorized vehicle.
Lifting motion is kept to a minimum; in most cases requiring the user to only lift the bicycle mere inches off the floor.	Allows easy operation of the rack for all body types.

Operation	Benefit
The carrier is oriented to load and unload in a vertical position.	Allows for easy, low-profile stowage.
The carrier includes complete operating instructions on the rack.	Educates the user as to the correct orientation of the bike when loading, further ensuring the shortest loading times possible.
The carrier can be deployed or stowed with one hand.	Allows the user to maintain control of the bicycle at all times.
The carrier uses a hands-free slam-latch rear wheel retention system.	Allows the user to stow the bicycle from a standing position.

Safety and Construction	Benefit
Finish on all metal parts is powder coated or stainless steel.	Durable time tested finish that retains its good looks and resist corrosion.
All moving parts are stainless steel.	Ensures maintenance and corrosion free operation.
All outside corners of the rack are rounded.	Rounded corners are friendly to users’ limbs when loading and unloading their bicycle.
A minimum number of parts are used on the carrier, and no loose parts.	Easy to maintain and simple to understand. Eliminates the risk of losing a valuable part rendering the rack unusable.
The carrier employs an active latching system securing the rack in its stowed and deployed position.	Keeps the rack secure in the interior of the vehicle during cornering and normal operating conditions, preventing the rack from coming in contact with passengers.
Bicycles stowed in the rack are oriented at such an angle as to not impede on the walking aisle of the vehicle.	Allows passengers to freely move about the length of the vehicle without difficulty.
The carrier is equipped with a user activated “release latch” to deploy the carrier.	This keeps the rack stowed until the user chooses, again reducing the risk of injury.
The carrier employs a weight activated front wheel retention system designed to secure a large portion of the front wheel.	More than just “hooking” your wheel into position, this system provides superior lateral and vertical retention over large bumps in the road.