

Byk-Rak

3 Position Bike Rack



**D.O.T.
TESTED
AND
APPROVED**

Wheels in Motion



Byk-Rak

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3 Position Wide Modular Bike Rack Assembly

<u>Byk-Rak Technical Features and Safety</u>	<u>Benefits and Advantages</u>
<ul style="list-style-type: none"> The Byk-Rak is 29.5 inches deep by 82 inches wide. 	<ul style="list-style-type: none"> The Byk-Rak is large enough to hold any adult-sized bikes (excluding tandem and recumbent) children's bikes—down to a size of 16" diameter wheels.
<ul style="list-style-type: none"> The Byk-Rak weighs less than 51 pounds. 	<ul style="list-style-type: none"> The Byk-Rak meets OSHA/NIOSH standards for lifting by a single individual, and anyone can raise or lower with one hand, ensuring convenient operation.
<ul style="list-style-type: none"> The Byk-Rak can be lowered or raised with one hand. A spring assisted pivot bracket is recommended to reduce lifting weight. 	<ul style="list-style-type: none"> This leaves the other hand free to stabilize the bike so the rider can operate the Byk-Rak with ease.
<ul style="list-style-type: none"> All parts of the Byk-Rak are finished with powder coat paint. (Unless specified by customers request i.e. electro polish and/or bead blasted bike racks) 	<ul style="list-style-type: none"> Powder coat painting provides corrosion resistance and will not flake off. It can chip, but that chip will not increase in size. This method of painting is also more environmentally safe than traditional methods.
<ul style="list-style-type: none"> All moving parts on the Byk-Rak are made of stainless steel. (including the Byk-Rak itself) No surface lubrication is needed. 	<ul style="list-style-type: none"> Stainless steel is corrosion resistant and will not chip like plated or coated steel. A Non-Glare Stainless Steel Finish is available.
<ul style="list-style-type: none"> The Byk-Rak is mounted to the front of the bus. 	<ul style="list-style-type: none"> Front-mounting the carrier increases driver visibility, safety, and security.
<ul style="list-style-type: none"> The Byk-Rak has two locking positions, stowed and deployed. 	<ul style="list-style-type: none"> In the stowed position the Byk-Rak protrudes minimally for increased maneuverability. Locking the carrier minimizes shaking.
<ul style="list-style-type: none"> The Byk-Rak has rounded outside corners, smooth welds, and few 'pinch' points. 	<ul style="list-style-type: none"> Having these safety features lessen the likeliness of injury to the operator.
<ul style="list-style-type: none"> The Byk-Rak does not block wipers or access panels in the stowed position. 	<ul style="list-style-type: none"> The carrier mounts right to the bumper, and bikes are held far enough away to not interfere with wipers or access panels.
<ul style="list-style-type: none"> Bikes can be loaded and unloaded from the sidewalk-side or front of the Byk-Rak. 	<ul style="list-style-type: none"> Bikes are always loaded and unloaded from the sidewalk-side so the user is not exposed to traffic.
<ul style="list-style-type: none"> Bikes can be independently loaded or unloaded. 	<ul style="list-style-type: none"> This allows either bike slot to be accessed at any time.
<ul style="list-style-type: none"> The main rails on the Byk-Rak are removable. 	<ul style="list-style-type: none"> Removable rails allow commonality between Byk-Rak products and modular replacement of damaged parts for ease of repair and a lower cost.
<ul style="list-style-type: none"> The Byk-Rak is constructed to support over 250 pounds static in the deployed position. 75 pounds per bike rail. 	<ul style="list-style-type: none"> This allows the carrier to easily hold heavy bikes and provides for misuse.
<ul style="list-style-type: none"> Bikes are secured by the front wheel lock, and supported on the back wheel. 	<ul style="list-style-type: none"> Loading/unloading times are under 10 seconds, so use of the Byk-Rak does not affect scheduling.
<ul style="list-style-type: none"> The Byk-Rak makes contact only with the tires of the bicycle. 	<ul style="list-style-type: none"> Bike frames or other parts will not be scratched or damaged.
<ul style="list-style-type: none"> The Byk-Rak accepts bicycles without any orientation of the pedals. 	<ul style="list-style-type: none"> This speeds up loading times because the user need not adjust the pedals to miss any part of the Byk-Rak.
<ul style="list-style-type: none"> The Byk-Rak has no pins, clips, or straps. The Byk-Rak has minimal use of complex parts. 	<ul style="list-style-type: none"> There are no small parts to break down or lose. This also contributes to fast loading time. A simple construction ensures high reliability and ease of use.
<ul style="list-style-type: none"> The Bicycle Rack shall be clearly marked with easy to follow instructions for operation. 	<ul style="list-style-type: none"> Educated the user as to the correct orientation of the bike when loading, ensuring the shortest loading and unloading time possible.
<ul style="list-style-type: none"> The wheel lock folds away when stored 	<ul style="list-style-type: none"> The wheel lock folds into the center of the Byk-Rak automatically so it will not damage the front of the bus.
<ul style="list-style-type: none"> The bumper mounting bracket is adjustable via multiple bolt-holes. 	<ul style="list-style-type: none"> The Byk-Rak's height can be adjusted for different buses or routes.
<ul style="list-style-type: none"> The Hinge Bracket is designed to attach to all mounting brackets similarly. 	<ul style="list-style-type: none"> The Byk-Rak can easily be installed on any bus through the use of different mounting brackets.
<ul style="list-style-type: none"> Bike Rack will have removable rails that can be replaced with a modular component. These rails are interchangeable. 	<ul style="list-style-type: none"> With this design racks that have been damage to the rail component can be replaced without replacing the entire rack.
<ul style="list-style-type: none"> Headlight Blockage and Turning Radius was main factors in development of our new design 3 Position Bike Rack. 	<ul style="list-style-type: none"> Testing has determined with 3 bikes loaded there is no blockage increase from the 2 Position bike rack loaded with bikes. Through Engineered off-set design and precise angles these goals were accomplished.