



Byk-Rak 3-Position **TECHNICAL SPECIFICATIONS**

1. The bike rack must meet OSHA/NIOSH requirements for lifting by a single individual and be capable of being raised or lowered with one hand. The 3-position rack will utilize a torsion spring assist mechanism for stowing and deployment.
2. The rack will be installed with a magnetic proximity switch and indicator light in order to alert the driver when the rack is deployed.
3. The bike rack must accommodate all bicycles with wheels 16" (i.e. Dahon folding bicycle series) or larger diameter, excluding tandems and recumbent type bicycles.
4. The bike rack frame shall be manufactured with 304 stainless steel tubing. Outside corners are to be rounded, pinch joints minimized and welds smoothed.
5. All nuts, bolts and washers shall be either AISI Type 304 stainless steel or Grade 8 yellow zinc plated steel
6. The bike rack must be mounted to the front of the bus and accommodate three (3) bicycles. The bicycle rack dimensions shall be less than 84" wide and 28" tall and 11" deep.
7. The latching mechanism must automatically lock the bike rack in the stowed and deployed positions.
8. The bike rack, when stowed, shall not interfere with any access panels/doors, windshield wipers or driver vents.
9. The bike rack shall be designed for loading and unloading from the front, curbside, of the bus. The wheel lock may only contact the bicycle's tires as to not damage to the bicycle's frame. The bike rack shall have a positive wheel lock with a four (4) point locking system. Straps, cords, and/or springs shall not be required to secure a bicycle.
10. The carrier shall not interfere with the ability of the driver to safely operate the vehicle. This includes, but is not limited to, the obstruction of the windshield view and the operation of the windshield wipers, turn signals, and headlights.
11. The carrier shall be compatible with automated bus washing systems and shall be capable of repeated use with automated washing equipment without sustaining damage to the carrier, vehicle, of the washing equipment. The carrier shall be designed as not to accumulate water internally.
12. The use of this rack shall not affect route scheduling. The bike rack shall have a design capability of being loaded or unloaded in 20 seconds or less.
13. The mounting bracket/ pivot plate assembly must be designed to fit all urban transit buses, both standard floor and low floor.



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(continued)

14. The rack shall not require pedal orientation to load or unload bicycles.
15. The rack shall be clearly labeled with bilingual operating instructions.
16. The rack shall allow independent loading and unloading of bicycles in any of the three positions.
17. The center position shall be raised no more than 1.5 inches.
18. The rack support arms shall be self-storing, retained by a gas spring.
19. The mounting brackets shall have multiple holes to allow for height adjustment.
20. The bicycle rack shall be warranted against defects in materials and workmanship for a period of one (1) year from date of installation
21. The bicycle rack manufacture is required to furnish a complete parts book.