

<https://rebstorage.com/reb-services/rack-repair/>

Rack Repair, in accordance with ANSI/RMI Standards

Rack systems are highly engineered, high-performance structures that are designed to carry more than ten times the self-weight of the structure. Daily abuse, neglect, adding new rack, modifying or re-configuring old rack can compromise the integrity of those systems.

That's why having your racking system regularly inspected is so important. It can help avoid a rack collapse, damage to property, and on the extreme end, employee injury.

REB Storage Systems International has a dedicated rack safety and repair team. Our knowledge of rack safety best practices and ANSI/RMI rack safety standards allow us to analyze a rack system, locate all possible risks and make suggestions to help you increase employee safety and asset protection.

If you are concerned about the safety of your racking system, the sooner you address it the better. To speak to Mike McCue, REB's Rack Safety and Repair Account Executive, directly, dial 773-366-8002. Alternatively, you can fill in the contact form on this page and Mike will contact you.

Rack Frame Repair

If you have any indication that your rack is impaired, it's time to take action. REB's rack repair is a faster and less expensive way to turn your old, beat-up racking into stronger, safer racking.

What are the Benefits of Rack Repair over Rack Replacement?

- Less disruption to Warehouse Operations
- Less unloading
- Less than half the time to repair a damaged column vs. replacing frame and reconnecting beams
- Less dismantling of accessories: Wire Mesh Deck, Crossbars and Fire Baffle
- Less damaged product disposal
- Less likely to create interference / interruption with Fire Protection & Electrical.
- Stronger / heavier gauge repair column installed

How does the Rack Repair Process Work?

Racks are repaired in place using a manufacturer-engineered rack lifting jack that allows for a minimal amount of unloading. This significantly reduces the disruption to your business and reduces the number of hours it takes to complete the job.

The lower damaged portion of the rack is removed and replaced with a heavier, abuse-resistant upright. If you have unique repairs involving custom onsite welding or fabrication, we will plan in advance with you and schedule the best time to do those repairs.

Rack Repair Kit Features

Made in the USA, our repair kits comply with the ANSI/RMI Standards 16.1 and offer the highest protection against impact. Features include:

- Reinforced post section
- Can be configured with most beam types

- Extended footplate with ½” anchors for added impact and twist resistance
- Manufactured using 50,000 PSI minimum yield high strength 12 gauge or heavier
- Steel
- Powder coat painted to the customers color choice
- Can be bolted or welded



Complete Rack System Repair

Our services go beyond frame repair. We can identify and repair or replace all areas of your rack system that has damage. Below are examples of other rack damage that should be repaired.

- **Leaning Frames:** When loaded, the minimum plumbness and straightness (both cross and down aisle) of the frame should be less than ½” per 10’ of height.
- **Overloaded Beams or Frames:** Using the RMI description, review the manufacturer’s frame capacity charts. Remember that rated loads refer to an evenly distributed load along the length of the rated member.
- **Missing or Damaged Components:** Often, various accessories are missing or damaged, but were originally installed to protect the rack structure or enhance safety. Typically includes: wall ties, crossbars, cross-aisle ties, wire mesh decks or pallet stops.
- **Beam Damage:** Missing or damaged beams, loose, damaged or missing fasteners. Deficiencies in load locks and snap locks are common and will fail to hold beam end plates in place. Load beams secured to withstand 1,000 lbs. of uplift force.
- **Damaged Decking:** Decking with exposed jagged edges, dips, or missing pieces can cause serious harm to employees or materials and should be replaced immediately.

Rack Repair FAQ

How do I know if my rack needs to be repaired?

Regular inspections are highly recommended. MHI created Guidelines for the Assessment and Repair or Replacement of Damaged Rack, which is available on their website www.mhi.org/rmi and provides a good inspection guide to follow. If

you've done regular inspections and are beginning to see dents beyond ½" deep of the face of the upright, creases, broken welds or torn steel, it's time for repairs to avoid failure.

How do I know if my rack needs repair or replacement?

How bad is the damage? An inspection will focus on the degree of the damage in order to determine whether repair or replacement is the best course of action. REB's professionals are trained to look beneath scraped paint to determine if the metal beneath is weak. Measuring the gap between a straightedge applied to the concave side of a damaged rack upright allows them to gauge the size of the gap. That gap in the overall bend of the upright, taken along with the dents, buckles, tears or splits can determine the extent of the overall damage. Likewise, beams are measured for deflection, dents or twists, and faulty connections to determine whether they can be repaired or need to be replaced. Today, rack repair is often the best choice due to dramatic improvements in the technology.

Should we be worried about a rack collapsing like the pictures we see of those events?

If you think you should be worried, you probably have reason to believe your system is in need of repair. Ask yourself a few questions and you be the judge. When was the last time the warehouse rack and shelving systems were inspected? Have you had any changes in pallet design like changing from timber pallets to post pallets or using larger or smaller pallets than the original rack design specified? What other changes have occurred since your warehouse rack and shelving system was installed? Are you worried now?

What should we do if we suspect we have a badly damaged upright?

Damage most often occurs over time with the constant wear and tear of daily operations, so it's not always easy to know when you're facing a potential hazard. If your visual eye suspects the rack is no longer plumb, is tilting or out of alignment, appears overloaded or misloaded take action now. Fire protection teaches, stop, drop, and roll – REB's rack safety advice is immediately unload, tag, and call us for an inspection and repair.

Our warehouse is old and we're not certain who manufactured the rack. Will this mean that we'll need to replace damaged rack and shelving?

It's common for a business to buy a previously used warehouse already equipped with rack and shelving. It's also common for growing businesses to buy used equipment or inherit rack from another part of the company. In such circumstances, REB is the place to turn because with more than 50 years of experience selling and installing new and used systems, in all likelihood, we've seen your system before. We'll do our best to source the original manufacturer's replacement parts and/or supply repair product that closely match the original material.

Do we have to shut down our warehouse operations while the repair work is underway?

The new technologies that our installers employ means that, in most cases, a minimal amount of unloading is required, so there is minimum disruption to your business. If you have unique repairs involving custom onsite welding or fabrication, we will plan in advance with you and schedule the best time to do those repairs.

Is a permit required?

Although there is no legal requirement to obtain a permit, it is good business practice to follow recommended industry standards. According to RMI (Rack Manufacturers Institute), the RMI/ANSI MH 16.1 specifications for new construction provides a working standard for repairs. If there is any doubt it would be prudent to contact the local building department.

What if our warehouse resides in a seismic zone?

According to the RMI, the building codes design manuals and the ANSI/RMI MH 16.1 all utilize the Seismic Design Categories A-F in their seismic design. REB has completed designs and installations for projects in the strictest U.S., South American, and Euro Code 8 seismic categories.

What is your warranty?

Our 10 year warranty includes materials.

Can REB service my warehouses located throughout the country? What about international locations?

REBs nationwide service and international technicians are the same professionals that perform our customer installations for all types of solutions. REBs service teams are cross-trained to ensure the job is performed efficiently and to the highest quality. Our customers who rely on REB for ongoing maintenance services attest to the deep knowledge and customer commitment of our service technicians.

Email info@rebstorage.com or call us at 800-252-5955 to schedule an appointment with one of our safety and repair specialists who can perform an inspection of your warehouse and provide safety product recommendations.