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HANDT 2HCR S4

HandT Overhead Garage Storage Rack Instruction Manual

Model: 2HCR S4



Overview of the HandT Overhead Garage Storage Rack system.

Important Safety Information

Please read and understand all instructions and safety warnings before installation and use of this product. Failure to follow these instructions may result in property damage, injury, or death.

- **Weight Capacity:** Do not exceed the maximum weight capacity of 100 pounds per individual rail set, and ensure the total load across all installed sets does not exceed 200 pounds. Overloading can cause the rack to fail, leading to injury or damage.
- **Proper Installation:** This storage rack must be securely mounted into structural wood studs or joists. Do not install into drywall, plaster, or metal studs without proper reinforcement. Consult a qualified professional if unsure about your ceiling structure.
- **Stud Finder:** Always use a reliable stud finder to accurately locate the center of ceiling studs. Incorrect mounting can compromise the rack's stability.
- **Pilot Holes:** Drill appropriate pilot holes as specified in the installation section to prevent splitting wood and ensure secure fastening.
- **Tools:** Use appropriate tools for installation. Wear safety glasses and gloves.
- **Bin Compatibility:** Ensure your storage bins fit securely within the rails and utilize the safety bolt mechanism to prevent accidental dislodgement.
- **Clearance:** Maintain adequate clearance around the installed rack to prevent accidental impact or obstruction.
- **Children and Pets:** Keep children and pets away from the installation area and the loaded storage rack.

Package Contents

Verify that all components are present before beginning installation. If any parts are missing or damaged, contact HandT customer support.

- Overhead Storage Rails (4 sets)
- Lag Bolts (for securing rails to studs)
- Safety Bolts (for securing bins in place)
- Connection Hardware (for linking multiple rail sets)
- Drill Bit (appropriate size for pilot holes)
- Power Bit (for lag bolts)
- Instruction Manual

Note: Storage bins are not included with this product.

Specifications

Feature	Detail
Material	Alloy Steel
Color	Black

Feature	Detail
Product Dimensions (per rail set)	17" Length x 3" Width x 3" Height
Shelf Type	Hanging Shelf
Number of Shelves	6 (Note: This product includes 4 rail sets, designed to hold 4 bins.)
Room Type	Garage
Finish Type	Powder Coated
Assembly Required	Yes
Mounting Type	Ceiling Mount
Item Weight (total)	15 Pounds
Shelf Weight Capacity (per individual rail set)	100 Pounds
Maximum Recommended Load (total system)	200 Pounds
UPC	196852809059
Model Number	2HCR S4

Installation Guide

This section provides step-by-step instructions for installing your HandT Overhead Garage Storage Rack. Ensure you have all necessary tools and have read the safety information.

Tools Required (Not Included, unless specified):

- Stud Finder
- Drill
- Measuring Tape
- Pencil
- Safety Glasses
- Gloves
- Ladder or sturdy step stool

Step 1: Locate Ceiling Studs

Using a stud finder, accurately locate and mark the center of the ceiling joists where you intend to install the rails. The rails are 17 inches long and designed to fit 16-inch on-center studs. For 24-inch on-center studs, two sets can be connected to span the distance.



Figure 1: Stud spacing considerations for 16-inch and 24-inch on-center joists. Note the upgraded lag bolts for secure fastening.

Step 2: Mark Pilot Hole Locations

Hold one rail against the ceiling, aligning it with your marked stud centers. Use a pencil to mark the locations for the pilot holes through the pre-drilled holes on the rail. Ensure the rail is parallel to the stud and level.

Step 3: Drill Pilot Holes

Using the provided drill bit, drill pilot holes at the marked locations. The pilot holes should be deep enough to accommodate the full length of the lag bolts without splitting the wood.



Figure 2: Proper drilling technique for pilot holes. Ensure the drill is perpendicular to the ceiling surface.

Step 4: Secure Rails to Ceiling

Align the rail with the pilot holes. Insert the provided lag bolts through the rail and into the pilot holes. Use a drill with the provided power bit to securely fasten the lag bolts. Tighten until snug, but do not overtighten to avoid stripping the wood or damaging the rail.

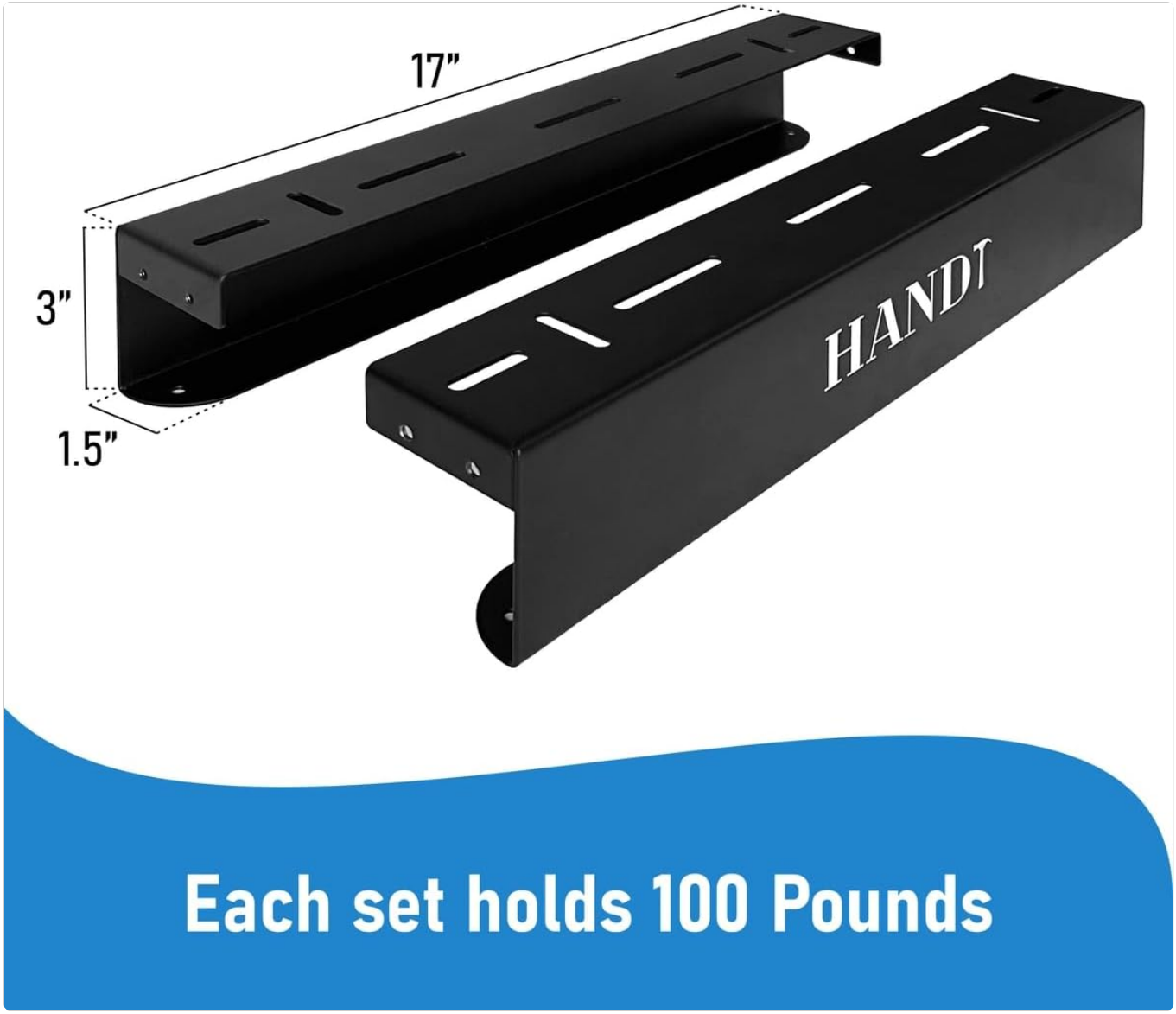

Figure 3: Dimensions of the storage rails. Each rail set is designed to hold up to 100 pounds.

Step 5: Connect Multiple Rail Sets (Optional)

If installing multiple rail sets in a row, align the connection points of adjacent rails. Use the provided connection hardware (screws) to secure them together. This allows for seamless storage and increased capacity.



Figure 4: Detail of connection holes for assembling multiple units in a row.

Step 6: Install Safety Bolts

Once the rails are securely mounted, install the safety bolts into the designated holes on the rails. These bolts will help prevent bins from accidentally sliding off the rails.



Figure 5: Adjustable bolt mechanism to secure bins and prevent falling.

Operation

This section details how to effectively use your HandT Overhead Garage Storage Rack system.

Loading Storage Bins

1. Ensure the safety bolts are retracted or removed to allow bin insertion.
2. Carefully lift your storage bin (up to 27 gallons recommended) and align its lip with the opening of the rails. The rails feature a 2-inch gap to accommodate various bin sizes.
3. Slide the bin into the rails until it is fully supported and centered.
4. Once the bin is in position, extend or re-insert the safety bolt to lock the bin in place. This prevents accidental dislodgement.



Figure 6: Example of multiple bins stored overhead using the HandT system.

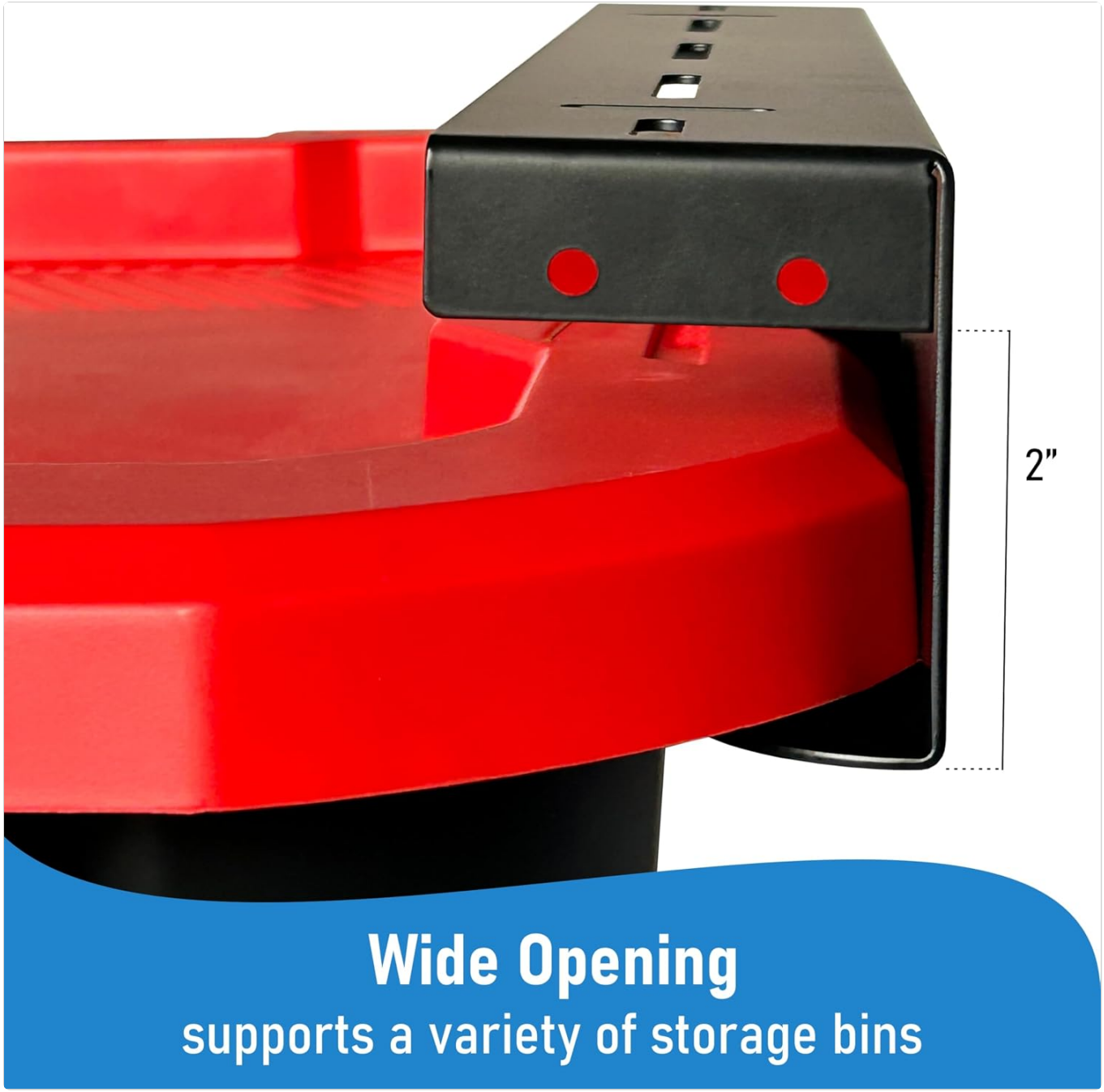

Figure 7: The wide opening of the rails supports a variety of storage bins.

Unloading Storage Bins

1. Retract or remove the safety bolt securing the desired bin.
2. Carefully slide the bin out of the rails. Support the bin's weight as it exits the rails.
3. Lower the bin safely.

Always ensure the total weight of contents in each bin does not exceed the 100-pound capacity per rail set, and the total system load does not exceed 200 pounds.

Maintenance

Regular maintenance ensures the longevity and safe operation of your storage rack.

- **Cleaning:** Wipe the rails with a dry cloth as needed to remove dust and debris. Avoid abrasive cleaners or

solvents that could damage the powder-coated finish.

- **Fastener Inspection:** Periodically check all lag bolts and connection hardware to ensure they remain tight. Re-tighten if any looseness is detected.
- **Structural Integrity:** Inspect the ceiling area around the mounts for any signs of stress, cracking, or moisture damage. Address any issues immediately.
- **Bin Condition:** Ensure storage bins are in good condition and their lips are not damaged, as this could affect how securely they rest in the rails.

Troubleshooting

If you encounter issues with your HandT Overhead Garage Storage Rack, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Bins do not slide smoothly or get stuck.	Rails are not perfectly parallel or level; bin lip is damaged; excessive weight.	Verify rail alignment and levelness. Inspect bin for damage. Reduce bin weight.
Rack feels unstable or wobbly.	Lag bolts are loose; not mounted into studs; overloaded.	Re-tighten all lag bolts. Confirm installation into solid wood studs. Reduce load to within capacity.
Safety bolt does not engage.	Bin is not fully inserted; bolt is obstructed or misaligned.	Push bin fully into position. Check for any obstructions around the safety bolt mechanism.
Difficulty installing lag bolts.	Pilot holes are too small or not deep enough; stud is splitting.	Ensure pilot holes are the correct size and depth. If stud is splitting, consult a professional for reinforcement.

Warranty and Support

For warranty information, product support, or to inquire about replacement parts, please contact HandT customer service directly. Refer to the contact information provided on the product packaging or the official HandT website. Online resources and additional support may be available at theHANDT Store on Amazon.

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