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DEWALT DXST4500BLK

DEWALT Industrial Storage Rack User Manual

Model: DXST4500BLK (41658)
Brand: DEWALT

Product Overview

The DEWALT DXST4500BLK 4-Foot Tall, 3 Shelf Industrial Rack is engineered for heavy-duty storage applications. It features solid laminate decks, safety straps with weld nuts for simplified assembly, and protective top caps. Each of the three black laminate wood composite decks can support an evenly distributed load of 1,500 lb., for a total rack capacity of 4,500 lb. The frame components, including uprights, crossbeams, and support straps, are constructed from powder-coated steel. Shelves are adjustable in 2.35-inch increments, secured by locking pins. Glass-filled nylon feet protect flooring and the powder coat finish. The rack includes stacking plates for vertical or horizontal expansion with additional units.



Image: Front view of the DEWALT Industrial Storage Rack, showcasing its three shelves and black finish.

Safety Instructions

- Always secure shelves with locking pins to prevent accidental dislodgement.
- Use the provided wall mounting bracket to prevent the rack from tipping, especially in areas prone to seismic activity or heavy loads.
- Do not exceed the maximum capacity of 1,500 lb per shelf or a total capacity of 4,500 lb for the entire unit. Overloading can lead to structural failure and injury.
- Keep the storage rack away from heat sources and open flames to prevent damage to the materials and potential fire hazards.
- Always follow the manufacturer's instructions for safe use and assembly. Deviations may compromise the rack's stability and safety.
- Ensure the rack is placed on a level, stable surface.

- Distribute weight evenly across shelves.

Package Contents

Before beginning assembly, verify that all components are present and undamaged. The package should include:

- Uprights (4) - two with pre-installed horizontal and diagonal support beams
- Crossbeams
- Support Straps (various types)
- Laminate Wood Composite Decks (3)
- Locking Pins
- Glass-filled Nylon Feet (4)
- Stacking Plates (2)
- Hardware Kit:
  - Wrench
  - Hex Key
  - Hex Driver Bit
- Wall Mounting Bracket (mentioned in safety, assume included or accessory)

Setup and Assembly

Assembly is required for this storage rack. The process is designed to be straightforward with the included hardware kit. It is recommended to have a second person for easier assembly.

1. **Prepare the Area:** Clear a spacious, level area for assembly. Ensure adequate lighting.
2. **Identify Components:** Unpack all parts and identify the uprights, crossbeams, support straps, and shelf decks. Note that two uprights come with pre-installed horizontal and diagonal support beams.
3. **Assemble Upright Frames:** Connect the crossbeams to the uprights to form the rectangular frames for the sides of the rack. The weld nuts on the safety straps facilitate this step.
4. **Attach Shelf Crossbeams:** Determine the desired height for your shelves. The shelves are adjustable in 2.35-inch increments. Attach the main crossbeams for the first shelf to the upright frames.
5. **Install Support Straps:** For each shelf, install the two types of support straps in addition to the crossbeams. These are crucial for preventing the shelves from buckling under pressure.
6. **Secure with Locking Pins:** Once the crossbeams and support straps are in place for a shelf, insert the locking pins to ensure the shelf is properly and securely installed.
7. **Place Shelf Decks:** Carefully place the laminate wood composite decks onto the assembled shelf frames.
8. **Repeat for Remaining Shelves:** Follow steps 4-6 for the remaining two shelves.
9. **Attach Nylon Feet:** Install the glass-filled nylon feet onto the bottom of the uprights. These protect your flooring and the rack's powder coat finish.
10. **Wall Mounting (Recommended):** For added stability and safety, especially with heavy loads or in active environments, secure the rack to a wall using the wall mounting bracket (if included).



Image: Detail of the shelf locking mechanism, showing how the crossbeams are secured to the uprights.



Image: Close-up view of the glass-filled nylon foot, designed to protect flooring and the rack's finish.

Operating Instructions

Shelf Adjustment

The shelves can be adjusted in 2.35-inch increments to accommodate items of various sizes. To adjust a shelf, remove the locking pins, carefully lift the shelf deck, detach the crossbeams and support straps, reposition them to the desired height, and re-secure them with the locking pins. Always ensure all pins are fully engaged before placing items on the shelf.

Weight Capacity

Each shelf is designed to hold an evenly distributed load of up to 1,500 lb. The total capacity for the entire rack is 4,500 lb. To maximize stability and prevent damage, distribute weight as evenly as possible across the shelf surface and throughout the rack.

Expanding Your Storage

The DEWALT Industrial Storage Rack is designed for expandability. Use the included stacking plates to securely join two racks together vertically, creating a taller storage solution. Alternatively, thanks to the double row design of the uprights, you can connect multiple units horizontally to form a continuous storage wall or a customized workspace. Always ensure connections are secure and stable.

Maintenance

Cleaning

To clean the rack, simply wipe it with a dry cloth. Avoid using abrasive cleaners or solvents that could damage the powder-coated finish or the laminate decks.

Regular Inspection

Periodically inspect the rack for any signs of wear, damage, or loose connections. Ensure all locking pins are securely in place and that the rack remains stable. If any components are damaged, contact customer support for replacement parts.

Troubleshooting

- **Rack is Unstable/Wobbly:**
  - Ensure the rack is on a level surface. Adjust the position if necessary.
  - Verify all crossbeams and support straps are fully engaged and secured with locking pins.
  - Confirm all bolts (if any) are tightened.
  - Utilize the wall mounting bracket to secure the rack to a stud in the wall.
- **Shelf Sagging:**
  - Check if the weight on the shelf exceeds the 1,500 lb capacity. Redistribute items if overloaded.
  - Ensure weight is evenly distributed across the shelf.
  - Verify that all support straps are correctly installed and not bent or damaged.
- **Difficulty Assembling:**
  - Refer to the assembly instructions carefully.
  - Ensure you are using the correct hardware for each step.
  - A second person can significantly ease the assembly process.

Specifications

Model Name	DXST4500BLK
Item Model Number	41658
Dimensions (Overall)	50"W x 18"D x 48"H
Number of Shelves	3
Capacity per Shelf	1,500 lb (evenly distributed)
Total Capacity	4,500 lb
Shelf Adjustment Increments	2.35 inches
Material	Powder-Coated Steel (frame), Laminate Wood Composite (decks)

Color	Black
Assembly Required	Yes
Item Weight	70 Pounds



Image: Diagram showing the dimensions of the DEWALT Industrial Storage Rack: 48 inches high, 50 inches wide, and 18 inches deep.

Warranty Information

This DEWALT Industrial Storage Rack comes with a **1-year manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or further details, please contact DEWALT customer support.

Customer Support

For assistance with assembly, missing parts, troubleshooting, or warranty inquiries, please visit the official DEWALT website or contact their customer service department. You can often find contact information, FAQs, and additional resources on the DEWALT support page.

Online Support: www.dewalt.com/support

Phone Support: Refer to the DEWALT website for regional contact numbers.

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