

BEAMNOVA 6Wheels-1ton

BEAMNOVA 1 Ton Manual I-Beam Trolley

Model: 6Wheels-1ton

1. SAFETY INFORMATION

Read and understand all instructions before operating this equipment. Failure to follow these instructions may result in serious injury or property damage.

General Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and safety footwear.
- Ensure the I-beam or H-beam track is structurally sound and capable of supporting the trolley's maximum load capacity plus the weight of the hoist and load.
- Inspect the trolley, hoist, and beam for any damage or wear before each use. Do not use if any components are damaged.
- Do not exceed the rated load capacity of 1 ton (2204 lbs).
- Ensure all fasteners are securely tightened before operation.
- Keep hands and clothing clear of moving parts during operation.
- Do not operate the trolley in hazardous environments or where explosive atmospheres may be present.

Specific Warnings

- The side locking nut features an anti-loose design. Always verify its secure engagement to prevent the hoist from detaching from the beam.
- This trolley is designed for use with compatible electric hoists (PA600, PA700, PA800, PA900, PA1000). Do not use with incompatible hoists.

2. PRODUCT OVERVIEW

The BEAMNOVA 1 Ton Manual I-Beam Trolley is a robust and adaptable solution for material handling, designed to facilitate smooth movement of hoists along I-beam or H-beam tracks. Its 6-wheel design ensures stable and efficient operation.

Key Features

- **Universal Fit:** Compatible with standard or wide flange I-beam tracks, and suitable for both straight and curved tracks.
- **Enhanced Safety:** Features a side locking nut with an anti-loose design to secure the hoist.
- **Durable Construction:** Manufactured with thickened Manganese steel and a powder-coated finish for wear resistance and longevity.
- **High Load Capacity:** Supports up to 1 ton (2204 lbs).
- **Smooth Operation:** Equipped with hardened steel wheels and double-sealed lubricated ball bearings for consistent, smooth movement.
- **Adjustable Width:** Wide flanges allow adjustment to fit I-beam widths from 1.57 to 6.1 inches.

Components

The trolley consists of two main side plates, six wheels with bearings, a balance shaft, side locking nuts, and adjustable casing gaskets for beam width customization.



Figure 2.1: Exploded view showing the trolley's individual components including side plates, wheels, and fasteners.



Figure 2.2: Detail of the thickened manganese steel plate for durability and the anti-loose side locking nut for enhanced safety.



Figure 2.3: Illustration of the non-serrated steel wheels and balance shaft, designed for smooth and stable movement along the I-beam.

Compatible Hoists

This manual I-beam trolley is specifically designed for use with BEAMNOVA electric hoists models PA600, PA700, PA800, PA900, and PA1000, which have a load capacity range of 600-1000 kg.



Figure 2.4: Compatibility chart indicating the trolley's suitability for PA600-PA1000 series electric hoists.

3. SPECIFICATIONS

Feature	Specification
Brand	BEAMNOVA
Model Number	6Wheels-1ton
Material	Alloy Steel
Color	Red
Style	Manual-6 Wheels 1 Ton
Wheel Type	Solid
Number of Wheels	6
Load Capacity	1 Ton (2204 lbs)
I-Beam Width Compatibility	1.57 - 6.1 inches
Number of Items	1



Figure 3.1: Detailed dimensions and I-beam compatibility range for the trolley.

4. SETUP AND INSTALLATION

Follow these steps to properly assemble and install the BEAMNOVA 1 Ton Manual I-Beam Trolley.

4.1 Assembly

1. Unpack all components and verify against the parts list (refer to Figure 2.1).
2. Attach the wheels to the side plates using the provided axles and bearings. Ensure the wheels rotate freely.
3. Insert the balance shaft through the designated holes in the side plates and secure it.
4. The installation methods for both sides of the trolley are identical.

4.2 Adjusting for I-Beam Width

The trolley's width is adjustable to fit I-beams ranging from 1.57 to 6.1 inches. Use the provided casing gaskets to achieve the correct fit.

1. Determine the width of your I-beam.
2. The trolley kit includes multiple casing gaskets, each measuring 28mm (1.1 inches).
3. To adjust the distance between the two steel plates, add or remove gaskets as needed. For narrower I-beams, fix the steel plate on the side of the trolley.
4. Ensure the trolley fits snugly on the I-beam without binding, allowing for smooth movement.
5. Securely tighten all bolts and the side locking nuts after adjustment.



Figure 4.1: Illustration of the multiple mounting holes and casing gaskets used for easy width adjustment and secure hoist attachment.



Figure 4.2: Visual guide on adjusting the number and position of gaskets to match the I-beam width.

4.3 Mounting the Hoist

Once the trolley is securely installed on the I-beam and adjusted to the correct width, attach your compatible electric hoist (e.g., PA600-PA1000 series) to the trolley's designated attachment point. Ensure the hoist is properly secured according to its own instruction manual and the trolley's load capacity.

5. OPERATING INSTRUCTIONS

This manual trolley is designed for manual push operation along an I-beam or H-beam track. It provides a stable platform for your electric hoist.

1. **Pre-Operation Check:** Before each use, perform a visual inspection of the trolley, hoist, and beam. Check for any signs of damage, loose fasteners, or obstructions on the track.
2. **Load Attachment:** Securely attach the load to the hoist hook. Ensure the load is balanced and within the trolley's 1-ton (2204 lbs) capacity.
3. **Movement:** To move the load, apply a steady, even force to push or pull the hoist and trolley along the I-beam. Avoid sudden jerks or excessive force.
4. **Positioning:** Guide the trolley carefully to the desired position. The 6-wheel design and lubricated bearings facilitate smooth movement.
5. **Lowering Load:** Once the trolley is positioned, operate the electric hoist to safely lower the load.
6. **Post-Operation:** After use, ensure the trolley and hoist are in a safe, stable position.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your BEAMNOVA Manual I-Beam Trolley.

6.1 Routine Inspection

- **Before Each Use:** Visually inspect the trolley for any cracks, bends, or deformation in the steel plates. Check the wheels for wear, chips, or flat spots. Ensure all bolts, nuts, and pins are tight and secure.
- **Monthly:** Conduct a more thorough inspection. Check the condition of the bearings for smooth rotation. Verify the integrity of the I-beam track for any damage or misalignment.

6.2 Lubrication

- The wheels feature double-sealed lubricated ball bearings. Under normal operating conditions, these bearings require minimal maintenance.
- If you notice any stiffness or unusual noise during operation, apply a small amount of general-purpose grease to the wheel axles and bearing areas. Avoid over-lubrication.

6.3 Cleaning and Storage

- Clean the trolley regularly to remove dirt, dust, and debris, especially from the wheels and track contact surfaces.
- Store the trolley in a dry, clean environment when not in use to prevent corrosion.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your manual I-beam trolley.

Problem	Possible Cause	Solution
Trolley does not move smoothly or binds on the beam.	Incorrect beam width adjustment; debris on track; worn or dry bearings; damaged wheels; misaligned I-beam.	Adjust casing gaskets for proper fit (refer to Section 4.2); clean the I-beam track; lubricate wheel bearings; inspect and replace damaged wheels; check I-beam for alignment.
Trolley makes excessive noise during operation.	Dry or worn bearings; loose fasteners; foreign objects on the track.	Lubricate or replace bearings; tighten all bolts and nuts; clear track of obstructions.
Hoist detaches from the trolley.	Side locking nut not securely fastened; incorrect hoist attachment.	Ensure the side locking nut is fully engaged and tightened; verify hoist is correctly attached to the trolley's designated point.
Trolley appears unstable or tips under load.	Load exceeding capacity; improper load balancing; incorrect beam width adjustment.	Do not exceed 1-ton load capacity; ensure load is centered and balanced; re-adjust trolley width for a snug fit on the beam.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please contact BEAMNOVA customer service. Refer to your purchase documentation or the official BEAMNOVA website for contact details.

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