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WEN 10711

WEN 10711 Industrial-Strength Adjustable Magnetic Base

User Manual

1. Introduction

The WEN 10711 Industrial-Strength Adjustable Magnetic Base is designed to provide stable and precise support for dial indicators. This tool is essential for accurate measurements, calibration, and inspection tasks in various industrial and scientific applications. Its robust magnetic force and flexible arm system ensure reliable positioning for optimal precision.

2. Safety Information

- Always ensure the magnetic base is securely attached to a ferrous metal surface before mounting a dial indicator.
- Keep hands and fingers clear of moving parts when adjusting the arm system.
- Do not attempt to force the arm into positions beyond its intended range of motion.
- Store the magnetic base in a clean, dry environment to prevent corrosion and maintain magnetic strength.
- This product is not a toy. Keep out of reach of children.

3. Package Contents

The WEN 10711 package includes:

- WEN 10711 Adjustable Magnetic Base (1 unit)

Note: Dial indicator is sold separately and is not included with this magnetic base.

4. Components Overview



Image 1: Front view of the WEN 10711 Magnetic Base, showing the main magnetic block with ON/OFF switch and the adjustable arm assembly.



Image 2: Side view of the WEN 10711 Magnetic Base, highlighting the robust construction and the articulation points of the arm.

- **Magnetic Base:** A 2.5 x 2-inch block with a V-groove design, capable of attaching to both flat and round ferrous metal surfaces.
- **ON/OFF Switch:** Located on the magnetic base, this lever engages or disengages the powerful magnetic force.
- **Main Vertical Post:** The primary support shaft extending from the magnetic base.
- **Two-Arm System:** Consists of two articulated arms that pivot, bend, and lock in a full 360 degrees, allowing for flexible positioning up to 15 inches in height.
- **Fine Adjustment Knob:** A small knob designed for micro-adjustments to the dial indicator's position, ensuring maximum precision.
- **Dial Indicator Mounting Hole:** A 3/8-inch diameter hole compatible with most standard dial indicators,

allowing for secure attachment.



Image 3: Close-up view of the adjustable arm system and the fine adjustment knob, illustrating the mechanism for precise positioning.

5. Setup

1. **Unpack:** Carefully remove the WEN 10711 Magnetic Base from its packaging. Inspect for any signs of damage.
2. **Select Surface:** Choose a clean, flat, or round ferrous metal surface where you intend to perform your measurements. Ensure the surface is free of debris, oil, or rust, which could affect magnetic adhesion.
3. **Position Base:** Place the magnetic base on the selected surface. Ensure the ON/OFF switch is in the "OFF" position before placement to allow for easy positioning.
4. **Engage Magnet:** Once the base is in the desired location, turn the ON/OFF switch to the "ON" position. The magnetic base will generate over 175 pounds of magnetic force, securely attaching it to the surface.

6. Operating Instructions


ON
OFF
MODEL 10711
MAGNETIC BASE
WEN
0—1.0 in
.001in
WEN

Image 4: The WEN 10711 Magnetic Base shown with a dial indicator mounted, ready for measurement tasks.

1. **Mount Dial Indicator:** Attach your dial indicator to the magnetic base. This can be done using the indicator's lug mount or by inserting its 3/8-inch shaft into the mounting hole on the magnetic base's arm. Secure it firmly with the provided fasteners on the arm.
2. **Rough Positioning:** With the magnetic base securely engaged, loosen the locking mechanisms on the two-arm system. Adjust the arms to bring the dial indicator close to the desired measurement point. The arms offer a full 360-degree range of motion and can reach up to 15 inches in height.
3. **Secure Arm:** Once the dial indicator is roughly positioned, tighten all locking mechanisms on the arm system to ensure it is held firmly in place without any movement.
4. **Fine Adjustment:** For precise positioning and zeroing the dial indicator, use the fine adjustment knob. This allows for minute adjustments to achieve maximum accuracy.
5. **Perform Measurement:** With the dial indicator securely positioned and adjusted, proceed with your measurement or calibration task.
6. **Disengage:** When the task is complete, turn the ON/OFF switch on the magnetic base to the "OFF" position. This releases the magnetic force, allowing for easy removal and repositioning of the base.

7. Maintenance

- **Cleaning:** Regularly wipe down the magnetic base and arm system with a clean, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the magnetic base in a dry, dust-free environment. Keep the magnetic surface clean to ensure optimal adhesion for future use.
- **Inspection:** Periodically inspect all locking mechanisms and joints for wear or damage. Ensure they operate smoothly and securely.
- **Lubrication:** Lightly lubricate pivot points if movement becomes stiff, using a suitable light machine oil.

8. Troubleshooting

- **Problem:** Magnetic base does not hold securely.
  Solution: Ensure the ON/OFF switch is fully in the "ON" position. Verify that the mounting surface is made of ferrous metal (e.g., steel, iron) and is clean and free of debris, paint, or thick coatings.
- **Problem:** Arm system does not hold its position.
  Solution: Check that all locking mechanisms on the arm joints are tightened sufficiently. Ensure the dial indicator is not excessively heavy or positioned in a way that creates undue leverage.
- **Problem:** Dial indicator does not fit the mounting hole.
  Solution: Confirm that your dial indicator has a 3/8-inch diameter shaft or a compatible lug mount. The WEN 10711 is designed for universal compatibility with most standard dial indicators.

9. Specifications

Feature	Specification
Model Number	10711
Magnetic Force	Over 175 pounds
Base Dimensions	2.5 x 2 inches (with V-groove)

Arm Reach	Up to 15 inches
Dial Indicator Mounting Hole	3/8 inch
Item Weight	3.13 pounds
Product Dimensions	2.5 x 2 x 9.13 inches

10. Warranty and Support

WEN products are manufactured to high-quality standards and typically come with a manufacturer's warranty. For specific warranty details, registration information, or to contact customer support for technical assistance or replacement parts, please refer to the warranty card included with your purchase or visit the official WEN website.

For further assistance, you may also refer to the contact information provided on the WEN product packaging or their official online resources.

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