

Brrnoo Brrnoo893pdmng5w

Brrnoo 8 Jewels Shockproof Dial Indicator User Manual

Model: Brrnoo893pdmng5w

1. INTRODUCTION

This manual provides essential information for the proper use, setup, maintenance, and troubleshooting of your Brrnoo 8 Jewels Shockproof Dial Indicator. This precision measuring tool is designed for accurate mechanical measurements, featuring a durable stainless steel construction and a carbide probe for longevity. Please read this manual thoroughly before operating the device to ensure optimal performance and safety.

2. PRODUCT FEATURES

- **Sturdy Carbide Probe:** Equipped with a carbide probe for high hardness, ensuring longevity and accuracy in measurements.
- **Precise Measurement:** 8 Jewels shockproof dial indicator with a clear scale for easy reading. Made of stainless steel for good wear and resistance.
- **Easy Maintenance:** High testing equipment that is easy to use and maintain, making it a convenient tool for various measurement tasks.
- **High Accuracy:** With its high sensitivity and reliability, this dial indicator is a dependable tool for mechanical measurements, suitable for professionals and DIY enthusiasts alike.
- **Enhanced Sensitivity:** Features jewel bearing support for higher sensitivity compared to ordinary dial gauges, providing accuracy and stability in measurements.

3. SPECIFICATIONS

Specification	Value
Condition	Brand New
Item Type	Dial Indicator
Material	Stainless Steel

Measuring Range	0-1mm
Resolution	0.001mm
Dial Diameter	58mm
Reading Value	0.001mm
Role	Mechanical measurement
Package Dimensions	5.51 x 3.15 x 1.57 inches
Item Weight	8.64 ounces
Model Number	Brrnoo893pdmng5w
Manufacturer	Brrnoo
Country of Origin	China

4. PACKAGE CONTENTS

- 1 x Brrnoo 8 Jewels Shockproof Dial Indicator



Image: The Brnoo Dial Indicator is supplied in a durable black protective case for safe storage and transport.

5. SETUP

Proper setup is crucial for accurate measurements.

1. **Unpacking:** Carefully remove the dial indicator from its protective packaging. Inspect for any visible damage.
2. **Mounting:** The dial indicator typically mounts onto a magnetic base or a stand using its stem. Ensure the stem is securely clamped without overtightening, which could affect accuracy.
3. **Positioning:** Position the dial indicator so that its carbide probe is perpendicular to the surface being measured. This minimizes cosine error and ensures the most accurate reading.
4. **Zeroing:** Before taking a measurement, gently bring the probe into contact with the reference surface. Rotate the outer bezel of the dial until the main needle points to zero. This establishes your reference point.



Image: Front view of the dial indicator, showing the clear scale and main needle for precise zeroing.

6. OPERATING INSTRUCTIONS

Follow these steps for accurate measurement using your dial indicator:

1. **Prepare the Workpiece:** Ensure the surface of the workpiece to be measured is clean and free of debris.
2. **Establish Reference:** Mount the dial indicator securely and bring the probe into contact with a known reference surface. Rotate the bezel to set the main needle to zero.
3. **Take Measurement:** Carefully move the dial indicator or the workpiece so that the probe traverses the surface to be measured. The main needle will indicate the deviation from the zero reference point.
4. **Read the Scale:** The large needle indicates hundredths or thousandths of a millimeter (0.001mm resolution). The smaller revolution counter indicates full millimeters. Read both scales to get the total measurement.
5. **Repeatability:** For critical measurements, take multiple readings at different points to ensure consistency and accuracy.



Made of stainless steel with good wear and corrosion resistance.
Carbide probe, corrosion resistance, high hardness.

Image: The dial indicator in an industrial application, demonstrating its robust stainless steel construction and carbide probe for wear and corrosion resistance.



High-precision, high sensitivity, reliable accuracy
8 Jewels bearing support

Image: The dial indicator demonstrating its high precision and sensitivity, supported by 8 jewels for reliable accuracy in measurements.

7. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your dial indicator.

- **Cleaning:** After each use, wipe the dial indicator clean with a soft, lint-free cloth. For stubborn grime, a small amount of isopropyl alcohol can be used, but avoid getting liquids inside the mechanism.
- **Lubrication:** The internal mechanisms are factory-lubricated. Avoid applying additional lubricants unless specifically instructed by a qualified technician, as this can attract dust and impair function.
- **Storage:** Store the dial indicator in its original protective case in a dry, clean environment, away from direct sunlight, extreme temperatures, and corrosive substances.
- **Handling:** Always handle the instrument with care. Avoid dropping it or subjecting it to impacts, as this can damage the delicate internal components and affect accuracy.
- **Calibration:** For professional applications, periodic calibration by a certified laboratory is recommended to ensure continued accuracy.

8. TROUBLESHOOTING

If you encounter issues with your dial indicator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Readings	Improper zeroing; probe not perpendicular; dirt on probe/surface; internal damage.	Re-zero the indicator; ensure perpendicular contact; clean probe and surface; if persistent, seek professional calibration/repair.
Needle Sticks or Jumps	Dust/debris inside mechanism; bent probe; worn internal components.	Gently tap the indicator to dislodge debris (if minor); inspect probe for bends; if severe, professional repair is needed. Do not attempt to disassemble.
Loose Bezel	Normal wear or overtightening of mounting clamp.	The bezel is designed to rotate for zeroing. If it feels excessively loose or affects readings, ensure the mounting clamp is not overtightened.

9. WARRANTY AND SUPPORT

Your Brnnoo 8 Jewels Shockproof Dial Indicator is manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or contact Brnnoo customer support. For technical support or inquiries, please visit the official Brnnoo store on Amazon or their official website.

[Visit the Brnnoo Store on Amazon](#)