

Mtx 316119

MTX Digital Caliper 6 IN (150mm) User Manual

Model: 316119 | Brand: MTX

1. INTRODUCTION

Thank you for choosing the MTX Digital Caliper. This precision measuring instrument is designed for accurate internal, external, depth, and step measurements. Constructed from durable stainless steel, it features an easy-to-read LCD display for clear measurement readings. This manual provides essential information for the safe and effective use, maintenance, and troubleshooting of your digital caliper.



Image 1.1: Overall view of the MTX Digital Caliper, showing the main body, jaws, LCD display, and control buttons.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the digital caliper. Failure to follow these instructions may result in injury or damage to the tool.

- Always handle the caliper with care to avoid dropping or impacting it, which can affect its accuracy.
- Keep the caliper clean and free from dust, dirt, and moisture.
- Do not apply excessive force when taking measurements.
- Store the caliper in its protective case when not in use to prevent damage.
- Keep batteries out of reach of children. Dispose of used batteries responsibly.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your digital caliper:

1. **External Measuring Jaws:** Used for measuring external dimensions.
2. **Internal Measuring Jaws:** Used for measuring internal dimensions.
3. **Depth Measuring Blade:** Used for measuring depths.
4. **Step Measuring Face:** Used for measuring step dimensions.
5. **Main Scale (Beam):** The fixed part of the caliper with the main measurement scale.

6. **Movable Jaw:** Slides along the main scale.
7. **LCD Display:** Shows digital measurement readings.
8. **ON/OFF Button:** Powers the unit on or off.
9. **ZERO Button:** Sets the display to zero at any position.
10. **mm/inch Button:** Switches between millimeter and inch units.
11. **Thumb Roller:** For fine adjustment of the movable jaw.
12. **Locking Screw:** Secures the movable jaw in position.



Image 3.1: Angled view highlighting the LCD display, control buttons, and measuring jaws.

4. SETUP

4.1. Battery Installation

The digital caliper is powered by a button cell battery (typically SR44/LR44 1.5V). Batteries are not included with the product.

1. Locate the battery compartment cover on the back of the display unit.

2. Slide the cover open.
3. Insert a new 1.5V button cell battery with the positive (+) side facing up.
4. Close the battery compartment cover securely.

4.2. Initial Power On and Zeroing

1. Press the **ON/OFF** button to turn on the caliper.
2. Gently close the external measuring jaws completely.
3. Press the **ZERO** button. The display should now read 0.00 mm or 0.000 in.
4. Press the **mm/inch** button to select your desired unit of measurement.

Your caliper is now ready for use.

5. OPERATING INSTRUCTIONS

Ensure the caliper is clean and zeroed before taking any measurements.

5.1. External Measurement

1. Open the external measuring jaws wider than the object to be measured.
2. Place the object between the jaws.
3. Gently close the jaws until they make firm contact with the object. Use the thumb roller for fine adjustment.
4. Read the measurement directly from the LCD display.
5. For consistent readings, apply light, even pressure.



Image 5.1: Measuring the external diameter of a component.



Image 5.2: Measuring the external dimension of a square tube.

5.2. Internal Measurement

1. Insert the internal measuring jaws into the opening to be measured.
2. Open the jaws until they make firm contact with the inner walls of the opening.
3. Read the measurement from the LCD display.

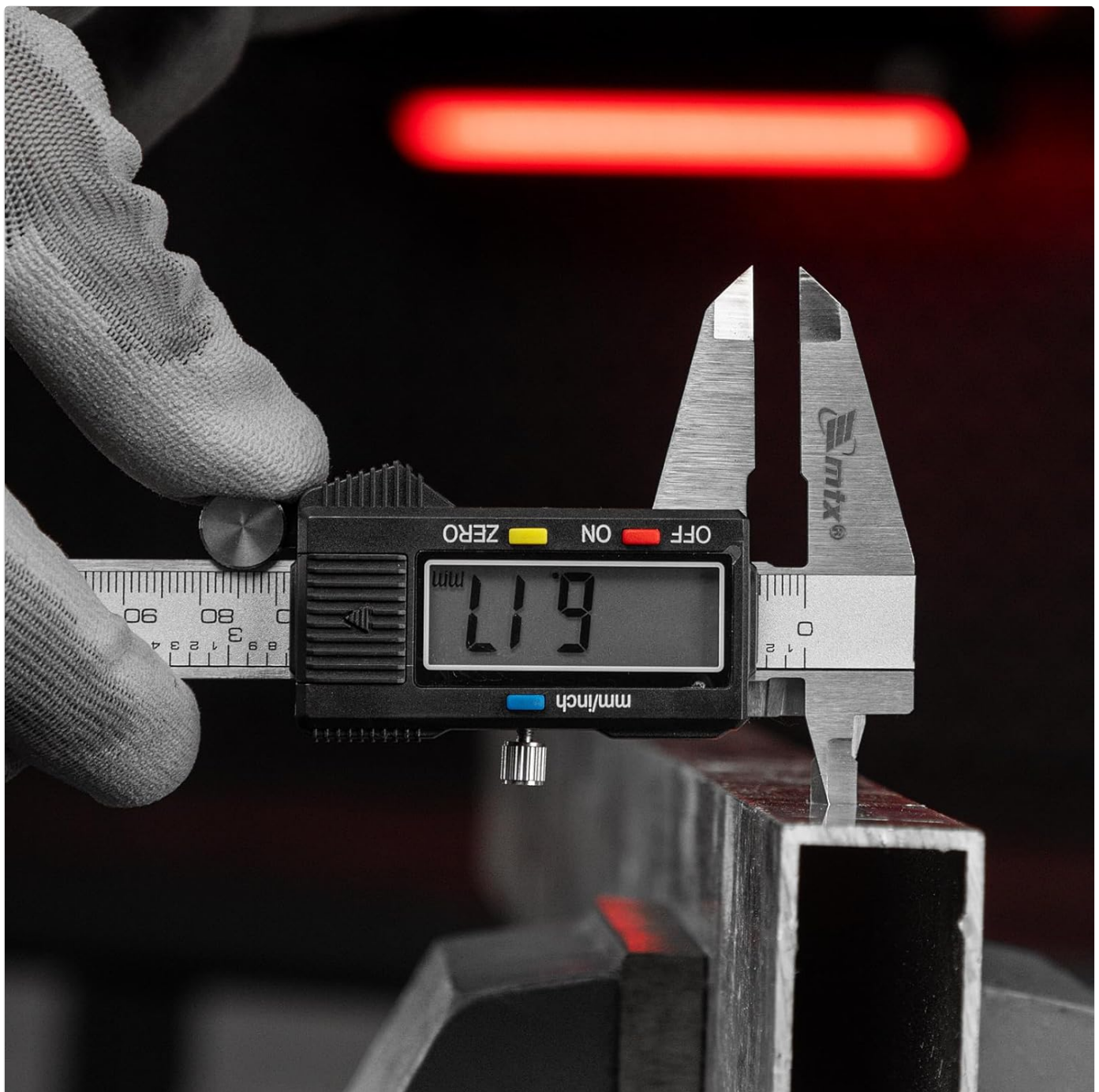


Image 5.3: Measuring the internal dimension of a square tube.

5.3. Depth Measurement

1. Place the end of the main scale firmly on the top surface of the object.
2. Extend the depth measuring blade into the hole or recess until its end touches the bottom.
3. Read the measurement from the LCD display.

5.4. Step Measurement

1. Place the step measuring face on the higher surface of the step.
2. Slide the movable jaw until the end of the main scale rests on the lower surface of the step.
3. Read the measurement from the LCD display.

6. MAINTENANCE

- **Cleaning:** Wipe the caliper clean with a soft, dry cloth after each use. Avoid using solvents or harsh chemicals.

- **Storage:** Store the caliper in its original protective case in a dry, clean environment when not in use.
- **Battery Replacement:** If the display becomes dim or erratic, replace the battery.
- **Calibration:** Periodically check the zero point. If the caliper does not zero correctly, clean the measuring faces and try again. If issues persist, professional calibration may be required.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead battery.	Replace the battery.
Inaccurate readings.	Dirty measuring faces; improper zeroing; damaged caliper.	Clean measuring faces; re-zero the caliper; inspect for damage.
Display shows erratic numbers.	Low battery; electromagnetic interference.	Replace battery; move away from strong electrical devices.
Jaws do not slide smoothly.	Dirt or debris on the beam.	Clean the beam thoroughly.

8. SPECIFICATIONS

Feature	Detail
Model	316119
Measuring Range	0-150 mm (0-6 inches)
Material	Stainless Steel
Display	LCD Digital Display
Power Source	1.5V Button Cell Battery (SR44/LR44 type, not included)
Units	Millimeters (mm) / Inches (in)
Product Dimensions	9 x 24.5 x 0.1 cm (approx.)
Product Weight	0.22 kg (approx.)

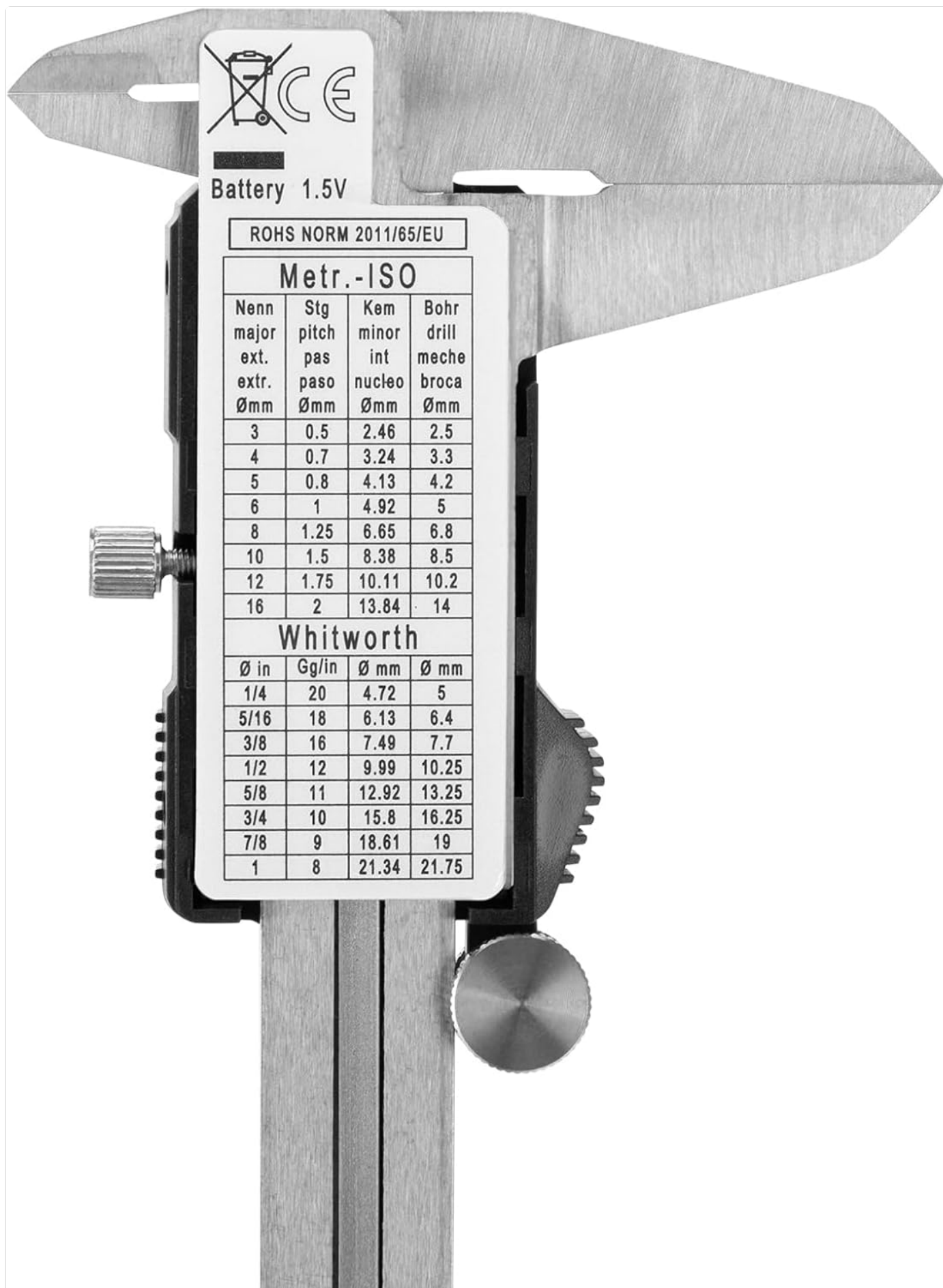







Image 8.1: Back of the caliper featuring useful measurement conversion charts.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact MTX customer service through their official website. Keep your purchase receipt as proof of purchase.

Manufacturer: Mundo das Ferramentas do Brasil Ltda.

Related Documents - 316119

	<p>Mikasa Tamping Rammer MTX-60E Spare Parts Manual</p> <p>Comprehensive spare parts manual for the Mikasa Tamping Rammer MTX-60E, detailing components, part numbers, and diagrams for maintenance and repair. Includes information on various Mikasa rammer models like MTX-60, MTX-60F, MTX-70, MTX-80, and MTX-90.</p>
	<p>MTi and MTx User Manual and Technical Documentation</p> <p>Discover the Xsens MTi and MTx series, miniature inertial measurement units (IMUs) offering precise 3D orientation, acceleration, and rate of turn data. This manual details their technical specifications, communication interfaces, and application use cases for robotics, biomechanics, and more. Learn about Xsens' advanced sensor fusion technology for reliable motion tracking.</p>
	<p>Honeywell Home MT4/MT8 Small Linear Thermoelectric Actuators - Product Specification</p> <p>Detailed product specification sheet for Honeywell Home MT4 and MT8 series small linear thermoelectric actuators, covering applications, features, technical data, dimensions, and ordering information.</p>
	<p>EBG High-Voltage High-Power Non-Inductive Resistors Product Catalog 2016</p> <p>Discover the EBG RESISTORS 2016 Product Catalog, showcasing a comprehensive range of High-Voltage, High-Power, and Non-Inductive Resistors. EBG, a Miba Group Company, offers advanced electronic components with exceptional stability, precision, and performance for demanding industrial applications. Explore detailed specifications, custom solutions, and technical data.</p>
	<p>Apeks Regulator Owner's Manual</p> <p>Comprehensive owner's manual for Apeks SCUBA regulators, detailing setup, operation, maintenance, safety guidelines, and warranty information for optimal diving performance.</p>



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