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TRUPER REGLA-22

Truper REGLA-22 Nut and Bolt Caliper Ruler

User Manual

1. Product Overview

The Truper REGLA-22 is a versatile caliper ruler designed for precise measurement and verification of various fasteners, including nuts, bolts, and screws. It supports both standard (imperial) and metric measurements for diameter, thread pitch, and length. This tool is essential for identifying and sorting hardware components accurately.

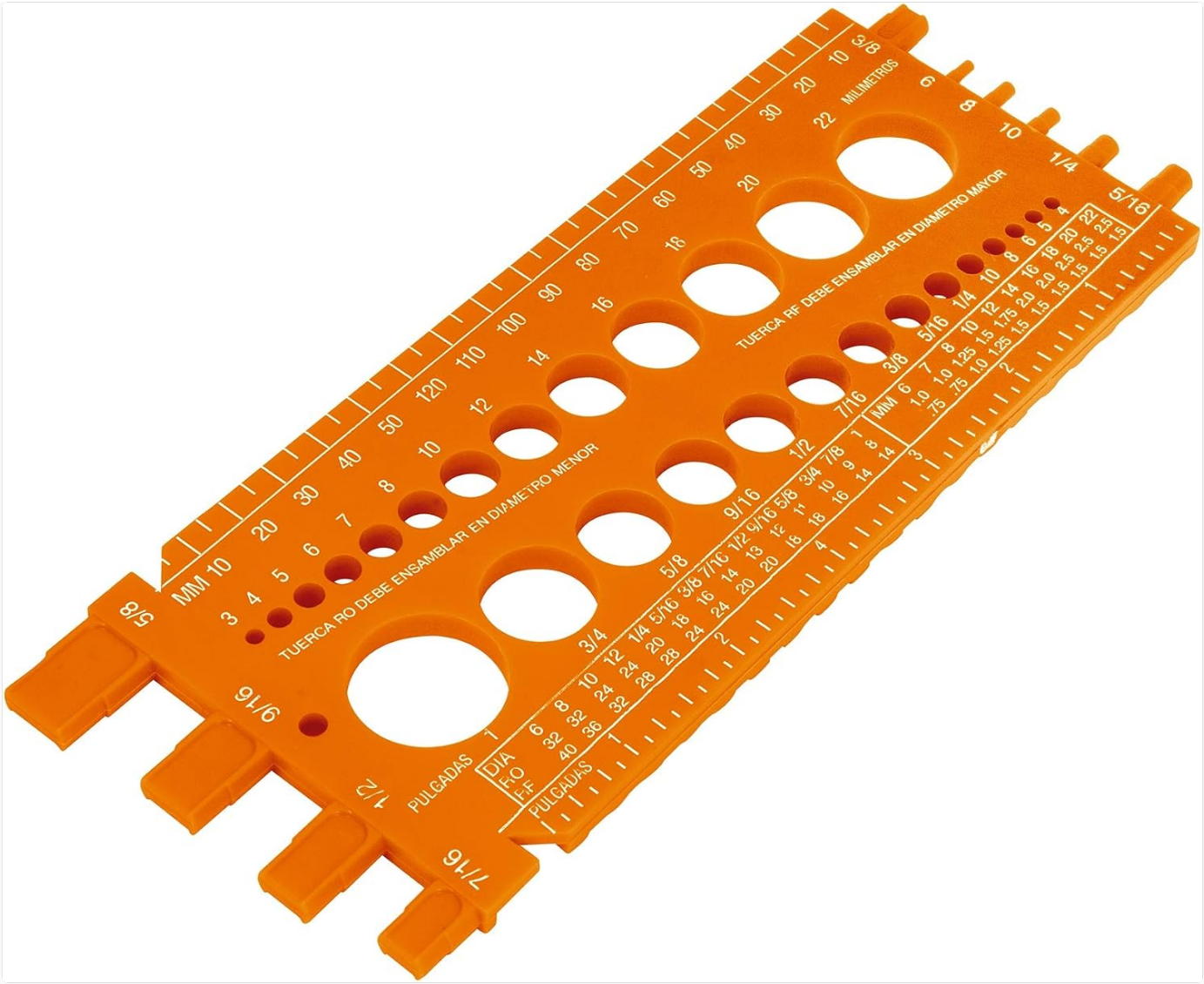


Figure 1: The Truper REGLA-22 Nut and Bolt Caliper Ruler. This image displays the full tool, highlighting its orange color and the various measurement scales and holes for different fastener sizes.

Key Features:

- Measures standard and metric diameters, thread pitch, and length.
- Verifies standard screws compliant with ASME-B1.1-2003.
- Verifies metric screws compliant with ASME B1.13M-2005.
- Durable construction for long-lasting use.

2. Setup

The Truper REGLA-22 is a ready-to-use manual tool that requires no assembly or power source.

Unpacking and Initial Inspection:

1. Carefully remove the caliper ruler from its packaging.
2. Inspect the tool for any visible damage or defects. Ensure all markings are clear and legible.
3. No batteries or additional components are required for operation.

3. Operating Instructions

The REGLA-22 provides multiple measurement functions integrated into a single tool. Familiarize yourself with the different sections for accurate use.

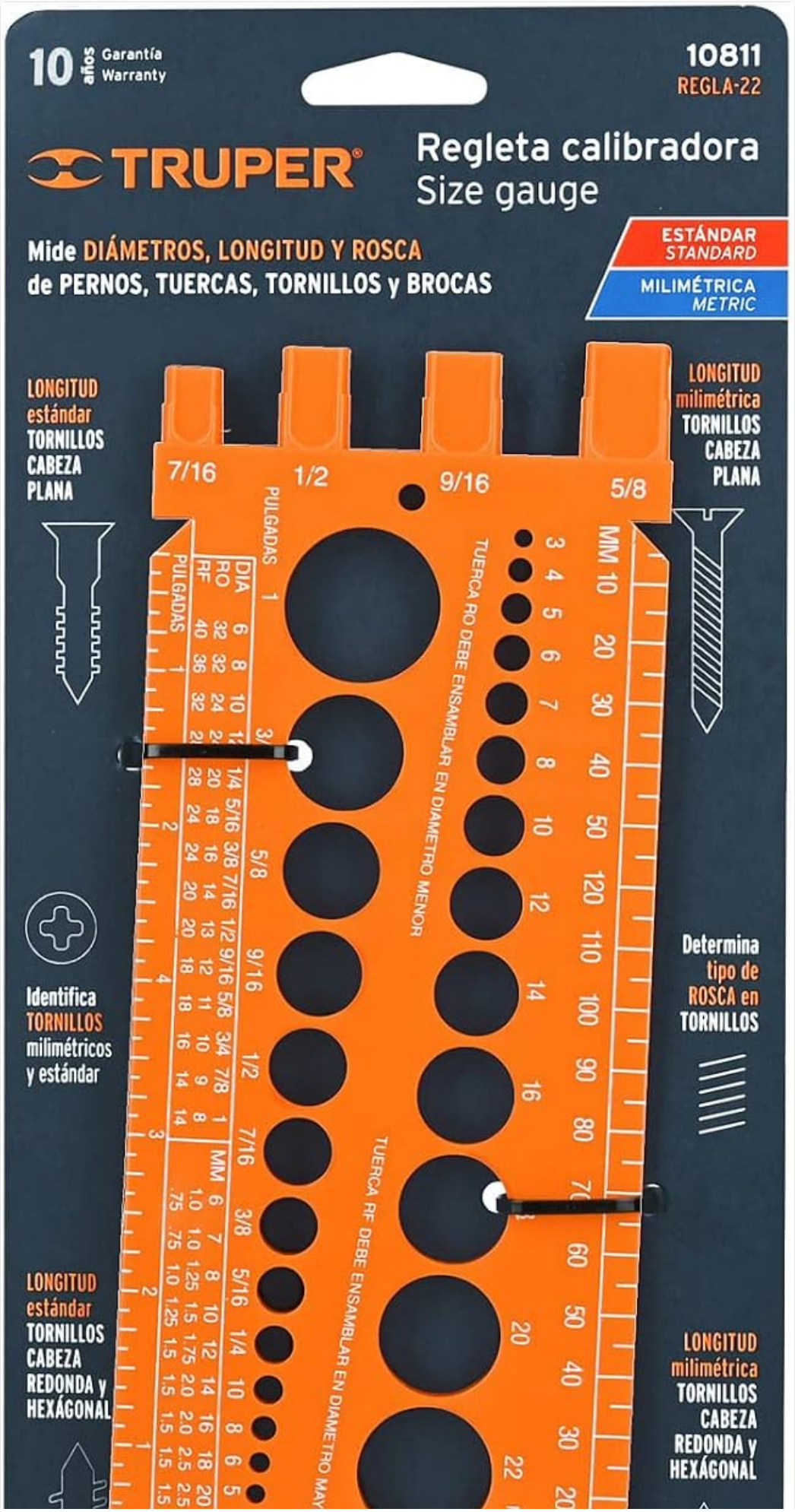




Figure 2: Annotated view of the Truper REGLA-22 showing its various measurement capabilities. This image illustrates how to measure external diameter, length, internal diameter, and thread pitch using the tool's marked sections.

Measuring External Diameter (Ø Externo):

- Locate the series of circular holes on the ruler.
- Insert the bolt or screw head into the smallest hole it can pass through. The corresponding marking next to the hole indicates the external diameter.

Measuring Internal Diameter (Ø Interno):

- For nuts or internal threads, use the tapered slots on the edge of the ruler.
- Slide the nut onto the tapered slot until it fits snugly. Read the measurement indicated at the point where the nut stops.

Measuring Length (Longitud):

- Place the fastener against the marked length scales on the ruler.
- Align one end of the fastener with the zero mark and read the length at the other end.

Measuring Thread Pitch (Cuerda):

- The ruler includes sections for both standard (UNC/UNF) and metric thread pitches.
- Carefully align the threads of your fastener with the marked thread patterns on the ruler until you find a perfect match. The corresponding number indicates the thread pitch.

Verifying Screw Standards:

- The ruler is designed to help verify if standard screws comply with ASME-B1.1-2003 and if metric screws comply with ASME B1.13M-2005.
- Use the appropriate measurement sections (diameter, length, thread) to compare your fastener's dimensions against the standard markings on the ruler.

4. Maintenance

Proper care will ensure the longevity and accuracy of your Truper REGLA-22 caliper ruler.

Cleaning:

- Wipe the ruler with a clean, dry cloth after each use to remove dirt, grease, or debris.
- For stubborn grime, a slightly damp cloth with mild soap can be used, followed by thorough drying.

- Avoid using abrasive cleaners or solvents, as these may damage the markings or material.

Storage:

- Store the ruler in a dry place, away from direct sunlight and extreme temperatures.
- Keep it in a protective case or drawer to prevent scratches or physical damage.

5. Troubleshooting

The Truper REGLA-22 is a simple mechanical tool, and issues are rare. Most problems relate to incorrect usage or physical damage.

Inaccurate Readings:

- **Cause:** Dirt or debris on the ruler or fastener.
- **Solution:** Clean the ruler and the fastener thoroughly before measurement.
- **Cause:** Incorrect alignment of the fastener with the measurement scale/hole.
- **Solution:** Ensure the fastener is perfectly aligned and seated correctly in the designated measurement area.
- **Cause:** Wear or damage to the ruler's measurement edges/holes.
- **Solution:** If the tool is visibly worn or damaged, it may need replacement to ensure accuracy.

Physical Damage:

- **Cause:** Dropping the tool or subjecting it to excessive force.
- **Solution:** Handle the ruler with care. If significant damage occurs, especially to the measurement edges or holes, the accuracy may be compromised, and replacement is recommended.

6. Specifications

Attribute	Detail
Model Number	REGLA-22
Part Number	10811
Manufacturer	Truper SA de CV
Color	Orange
Style	Caliper Ruler
Material	Durable Plastic
Item Package Quantity	1
Batteries Required	No
Product Dimensions (L x W x H)	21.06 x 8.46 x 2.62 cm (8.29 x 3.33 x 1.03 inches)
Item Weight	91 g
First Available Date	September 18, 2015

7. Warranty and Support

Warranty Information:

The Truper REGLA-22 Nut and Bolt Caliper Ruler comes with a **10-year warranty** from the manufacturer. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support:

For any questions, concerns, or support regarding your Truper REGLA-22, please visit the official Truper website or contact their customer service department. Refer to the packaging or the Truper website for the most current contact information.

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