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› Tajima HTN-50 Engineer Ten Steel Tape Measure User Manual

Tajima HTN-50

Tajima HTN-50 Engineer Ten Steel Tape Measure User Manual

Model: HTN-50

1. INTRODUCTION

The Tajima HTN-50 Engineer Ten is a robust steel tape measure designed for precise measurements in general surveying, civil engineering, and construction applications. This manual provides essential information for the safe and effective use, maintenance, and understanding of your HTN-50 tape measure.



Figure 1: Tajima HTN-50 Engineer Ten Tape Measure, showing the product in its retail packaging.

2. SAFETY INFORMATION

Please read and understand all safety warnings before using this product.

- **Electrical Conductivity:** This product has electrical conductivity. Exercise extreme caution to avoid electric shock when working near electrical sources.
- **Cutting Hazard:** The edges of the tape can be sharp. Always wear protective gloves to prevent hand injuries when handling the tape.
- Ensure the tape is fully retracted when not in use to prevent accidental injury or damage.
- Do not attempt to disassemble or modify the tape measure, as this may compromise its accuracy and safety features.

3. PRODUCT FEATURES

The Tajima HTN-50 Engineer Ten tape measure incorporates several features for enhanced usability and durability:

- **JIS Class 1 Accuracy:** Conforms to Japanese Industrial Standards for high measurement precision.
- **Durable Steel Tape:** Made from SK85 (formerly SK5) steel, coated with white polyester and a transparent resin for excellent durability and resistance to bending.
- **Yonggo Pitch Display:** Includes a specialized marking system for 455mm pitch, useful in specific construction methods (e.g., two-by-four, panel, pre-fab construction).
- **Elastomer Grip:** Provides a comfortable and secure hold during use.
- **ABS Plastic Case:** Lightweight and durable case protects the tape mechanism.
- **Anti-Skid Mechanism:** Designed to prevent unintended tape movement.

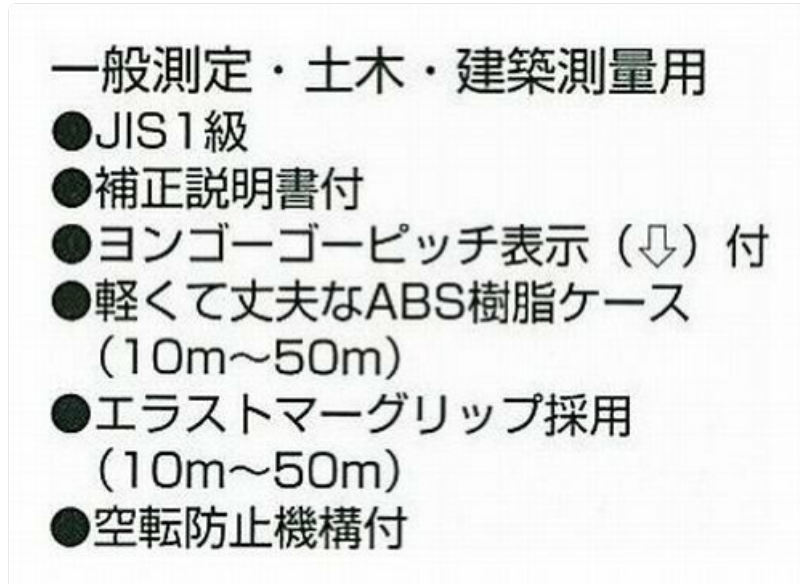


Figure 2: Key features of the HTN-50, including JIS Class 1, correction instructions, Yonggo pitch display, lightweight ABS case, elastomer grip, and anti-skid mechanism.

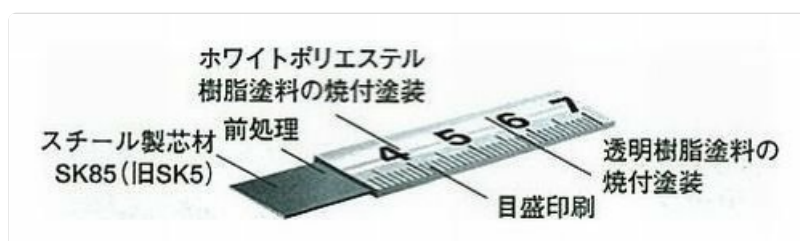


Figure 3: Cross-section diagram illustrating the tape construction, showing the SK85 steel core, pre-treatment, white

polyester coating, scale printing, and transparent resin coating.

4. SETUP AND INITIAL INSPECTION

The Tajima HTN-50 tape measure comes pre-assembled and ready for use. Upon receiving your product, perform the following initial checks:

1. **Unboxing:** Carefully remove the tape measure from its packaging.
2. **Visual Inspection:** Examine the tape, case, and winding mechanism for any signs of damage during transit. Ensure the tape extends and retracts smoothly.
3. **Handle Check:** Verify that the elastomer grip handle is securely attached and free from defects.



Figure 4: The Tajima HTN-50 Engineer Ten tape measure as it appears in its packaging, ready for unboxing.

5. OPERATION

Using the Tajima HTN-50 Engineer Ten tape measure is straightforward:

1. **Extending the Tape:** Hold the case firmly by the handle. Pull the end of the tape to extend it to the desired length. The anti-skid mechanism helps maintain the tape's position.
2. **Taking Measurements:** Align the tape's end with your starting point. Read the measurement at the desired mark. The tape features clear markings, including standard metric units and the Yonggo pitch display.
3. **Retracting the Tape:** Turn the winding handle clockwise to retract the tape back into the case. Ensure the tape retracts smoothly and without kinks.
4. **Yonggo Pitch Display:** This display indicates 455mm intervals, which are commonly used in specific Japanese construction techniques. Refer to Figure 5 for an example of these markings.



Figure 5: Close-up view of the tape showing the Yonggo pitch display, which marks 455mm intervals for specific construction applications.



Figure 6: Detailed view of the tape markings, highlighting the clear numerical and incremental scales for accurate reading.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your tape measure:

- **Cleaning:** Wipe the tape and case with a dry or slightly damp cloth after each use to remove dirt, dust, or moisture. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tape measure in a dry place, away from direct sunlight and extreme temperatures. Ensure the tape is fully retracted before storage.
- **Inspection:** Periodically inspect the tape for any signs of wear, kinks, or damage. Check the winding mechanism for smooth operation.
- **Avoid Impact:** Protect the tape measure from drops or heavy impacts, which can affect its accuracy and structural integrity.

7. TROUBLESHOOTING

If you encounter issues with your Tajima HTN-50, consider the following:

- **Tape Does Not Retract Smoothly:** Check for any debris or obstructions in the tape opening. Ensure the tape is not kinked. If the issue persists, the internal mechanism may be damaged, and professional inspection might be required.
- **Inaccurate Measurements:** Verify that the tape is fully extended and taut during measurement. Ensure

the tape end is correctly aligned. If accuracy issues persist, the tape may be damaged or worn, requiring replacement.

- **Winding Handle Stiff:** Clean any dirt or dust around the winding mechanism. If it remains stiff, the internal gears might be obstructed or damaged.

8. SPECIFICATIONS

Specification	Detail
Model Number	HTN-50
Tape Length	50 meters (164.4 ft)
Tape Width	13 mm (0.5 inches)
Tape Thickness	0.24 mm (0.09 inches)
Standard Tension	50N
Scale Specifications	JIS Class 1
Tape Material	SK85 (formerly SK5) Steel with White Polyester Coating
Case Material	ABS Resin (Acrylonitrile Butadiene Styrene)
Product Dimensions (W x H x D)	190 x 295 x 40 mm (7.5 x 11.6 x 1.6 inches)
Product Weight	1320 g (43.6 oz / 2.9 lbs)
Measurement Accuracy	±0.059 inches per 10 feet
Lock Type	Slide

ホワイトポリエステル塗装スチール製テープ

折れ曲がりに強く、耐久性にすぐれたSK85(旧SK5)(炭素工具鋼第5種)を芯材に、ホワイトポリエステル樹脂塗料焼付塗装後目盛印刷を施し、その上に透明樹脂塗料を焼付塗装したテープです。

●JIS 1級の長さの許容差：±(0.2+0.1L)mm L=m単位の測定長(端数切り上げ)

Figure 7: Explanation of the white polyester coated steel tape, highlighting its durability and resistance to bending due to the SK85 core and multi-layer coating.

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Tajima HTN-50 Engineer Ten tape measure, please refer to the documentation provided with your purchase or contact Tajima customer service directly. Keep your proof of purchase for warranty claims.

