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## Dasqua 5610-0162

# Dasqua 5610-0162 Dial Test Indicator User Manual

Model: 5610-0162

## INTRODUCTION

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The Dasqua 5610-0162 Dial Test Indicator is a precision measuring instrument designed for machinists and professionals requiring high accuracy. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your indicator to ensure optimal performance and longevity.



*Image: Main view of the Dasqua 5610-0162 Dial Test Indicator, showing the large white dial face and the contact point.*

## KEY FEATURES

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- **Precision Design:** Engineered for precision machinists, built for durability and accuracy.
- **Accurate Measurements:** Offers precise measurements with a graduation of 0.0005 inches for fine adjustments.
- **Durable Construction:** Features a hard frame body and shock-proof gearing with smooth movement for lasting performance in demanding environments.
- **Easy-to-Read Dial:** Large white dial face (37 mm diameter) provides clear and easy-to-read measurements.
- **Versatile Mounting:** Includes 5/32 inch and 3/8 inch stems for various applications. Dovetail mounts are located on the top, back, and front.
- **Jeweled Movement:** Ensures smooth and consistent operation.
- **Automatic Reversal:** Simplifies measurement direction changes.
- **Satin Chrome Finish:** Provides a durable and aesthetically pleasing surface.

- **Quality Assurance:** Backed by a traceable quality control system and a two-year warranty.

## COMPONENTS INCLUDED

The Dasqua 5610-0162 Dial Test Indicator package typically includes the following items:

- Dasqua 5610-0162 Dial Test Indicator
- 5/32 inch stem
- 3/8 inch stem
- Fitted case for storage
- Warranty letter
- Calibration certificate (non-NIST traceable)



Image: The Dasqua Dial Test Indicator shown inside its protective case, alongside the included stems and documentation.

## SETUP

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1. **Unpacking:** Carefully remove the dial test indicator and its accessories from the fitted case.
2. **Mounting:**
  - Select the appropriate stem (5/32 inch or 3/8 inch) for your application.
  - Insert the chosen stem into one of the dovetail mounts located on the top, back, or front of the indicator body.
  - Secure the indicator firmly to a suitable stand or fixture using the stem. Ensure the indicator is stable and free from movement during measurement.
3. **Stylus Adjustment:** The contact point (stylus) length is 13 mm (0.53 inches). Ensure it is clean and free from debris.
4. **Orientation:** Position the indicator so that the stylus is perpendicular to the surface being measured for optimal accuracy.



*Image: Rear view of the indicator, highlighting the dovetail mounting points for attaching stems.*

## OPERATING INSTRUCTIONS

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### 1. Zero Setting:

- Bring the stylus into contact with the reference surface or workpiece.
- Rotate the outer bezel of the dial until the "0" mark aligns with the indicator needle.

### 2. Measurement:

- Move the indicator across the surface to be measured. The stylus will deflect, and the needle will move on the dial.
- Read the deviation from the zero point on the dial. Each major division represents 0.005 inches, and each minor division represents 0.0005 inches.
- The indicator features automatic reversal, meaning it can measure in both directions without needing to adjust the stylus.

3. **Interpreting Readings:** The dial typically reads 0-15-0, indicating movement in either direction from the zero point.



Image: The dial test indicator mounted on a stand, measuring the flatness of a surface plate.

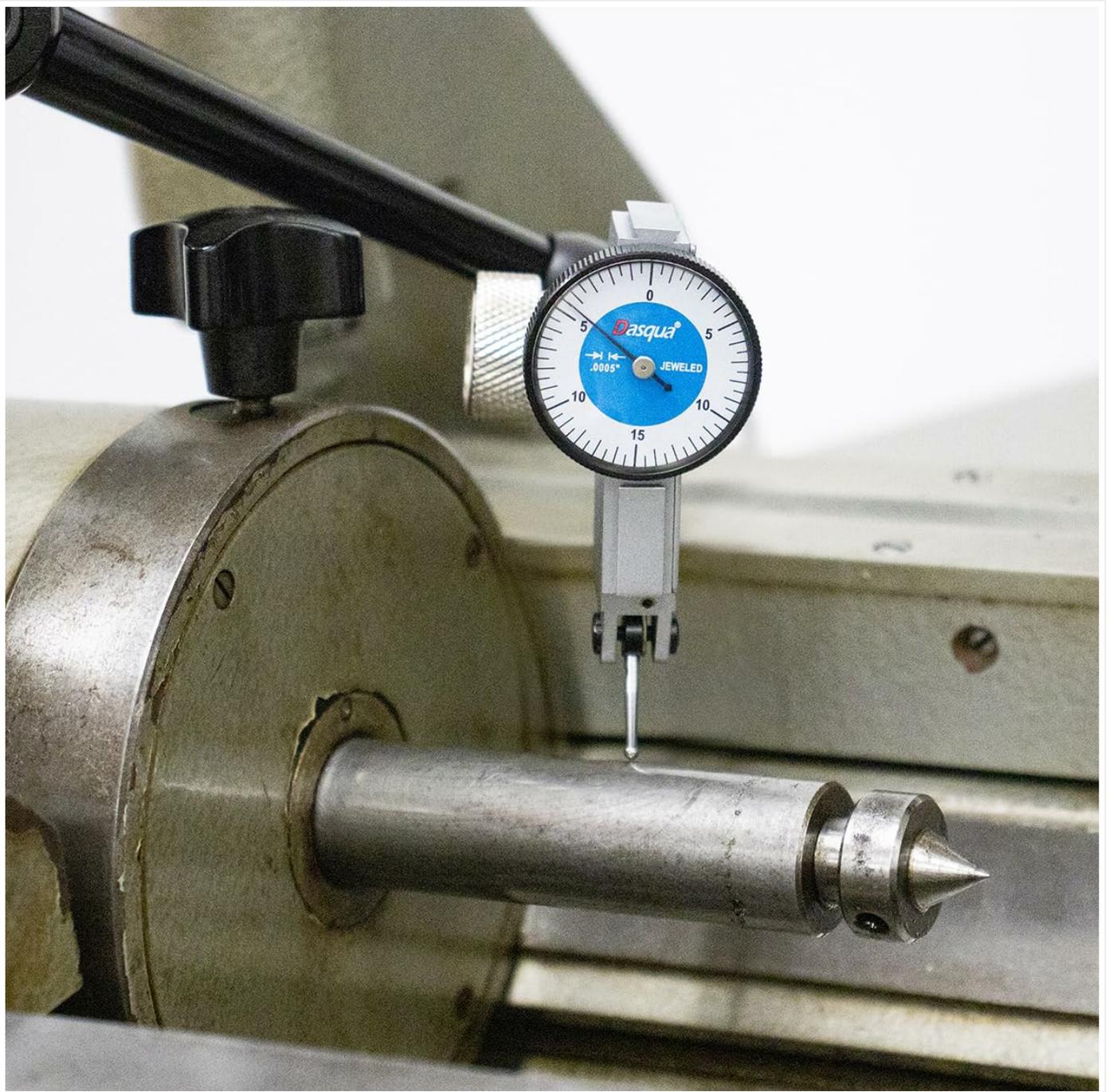


Image: The dial test indicator being used to check the concentricity of a workpiece mounted in a lathe.

## MAINTENANCE

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- **Cleaning:** After each use, wipe the indicator body and stylus with a clean, soft cloth. For stubborn grime, use a mild, non-abrasive cleaning solution. Avoid harsh chemicals that could damage the finish or internal components.
- **Storage:** Store the indicator in its original fitted case when not in use to protect it from dust, moisture, and physical damage.
- **Lubrication:** The internal jeweled movements are designed for smooth operation and generally do not require user lubrication. If the movement feels stiff, consult a qualified technician.
- **Inspection:** Regularly inspect the stylus for wear or damage. A worn stylus can affect measurement accuracy.
- **Calibration:** While the indicator comes with a calibration certificate, periodic re-calibration by a certified laboratory is recommended for applications requiring the highest levels of accuracy.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Needle does not move smoothly.	Dust or debris in mechanism; damaged internal components.	Clean the indicator thoroughly. If problem persists, contact Dasqua support for service.
Inaccurate readings.	Stylus worn or bent; improper mounting; indicator not perpendicular to surface; temperature fluctuations.	Inspect and replace stylus if necessary. Ensure secure and correct mounting. Verify perpendicularity. Allow indicator to acclimate to ambient temperature. Consider professional re-calibration.
Indicator needle sticks.	Stylus or internal mechanism is dirty or damaged.	Clean the stylus and indicator body. If sticking continues, do not force movement; seek professional repair.

## SPECIFICATIONS

Feature	Detail
Model Number	5610-0162
Measuring Range	0 - 0.30 inches
Graduation	0.0005 inches
Dial Face Diameter	1.5 inches (37 mm)
Contact Point (Stylus) Length	0.53 inches (13 mm)
Contact Point Diameter	0.078 inches (2 mm)
Stems Included	5/32 inch, 3/8 inch
Mounting	Dovetail mounts (top, back, front)
Movement	Jeweled, Shock-proof, Automatic Reversal
Finish	Satin Chrome
Product Dimensions	4 x 2 x 2 inches (10.16 x 5.08 x 5.08 cm)
Weight	454 g
Batteries Required	No

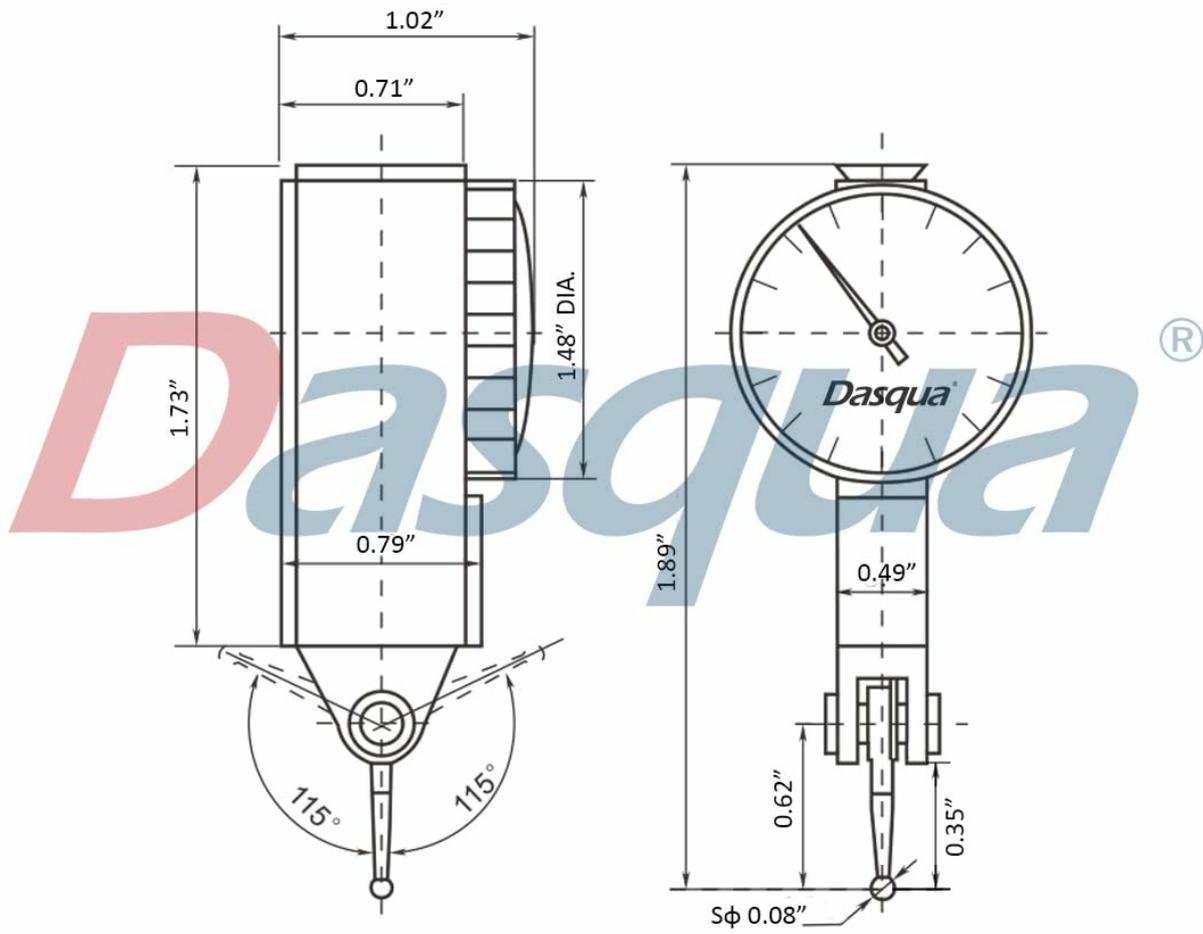


Image: Technical drawing illustrating the dimensions and key features of the dial test indicator.

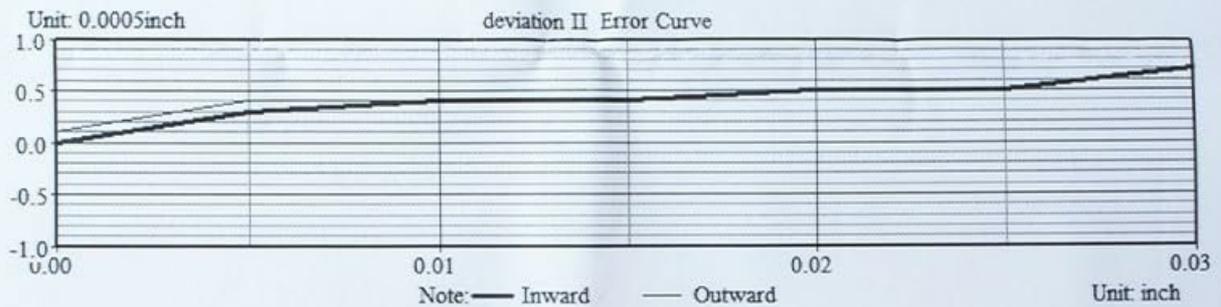
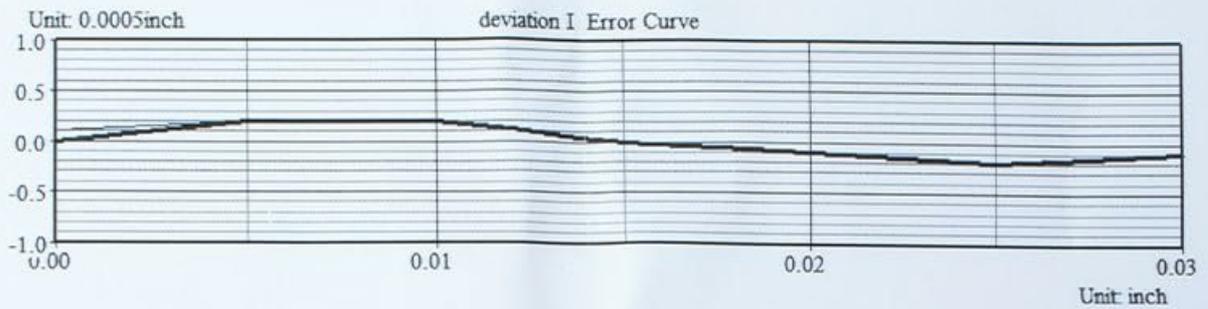
## Dial Test Indicator in inch Calibration Certificate

Measuring Range: (0-0.03)inch Resolution: 0.0005inch

Factory No.: 2632090

Cal. Reference: ASME B89.1.10M-2001

Date of Test: 2022-07-08



Unit:	Hysteresis	One	First 2.5	/	/	/	/
0.0005inch	Error	Revolution	Revolution				
Tolerances	0.30	±1.0	/	/	/	/	/
Indication Error	0.10	+0.7	/	/	/	/	/

Conclusion: Pass

Tested By:

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## WARRANTY AND SUPPORT

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The Dasqua 5610-0162 Dial Test Indicator is backed by a two-year warranty, ensuring quality and reliability. For warranty claims, technical support, or service inquiries, please refer to the contact information provided in your product packaging or visit the official Dasqua website.

A warranty letter and a calibration certificate (non-NIST traceable) are included with your product.

For additional information or to explore other Dasqua products, please visit the [Dasqua Brand Store](#).

