Pocket Gage

User's Manual
No.99MAG018B
Series No.7300

1. Introduction

Be sure to read this user's manual before using the gage to ensure correct usage.
Store this manual in an easily accessible place after reading it.

Explanation of Notes

IMPORTANT

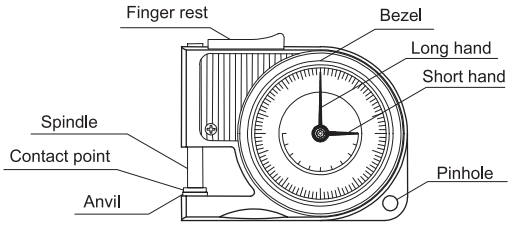
- **A type of note that provides information essential to the completion of a task.**
- **A type of precaution, which if neglected could result in decreased accuracy or instrument malfunction/failure.**

2. Usage Environment

IMPORTANT

- **Use the gage in an environment with a temperature of 0 to 40°C and a humidity of 30 to 70%.**
- **Avoid sudden changes in temperature. Condensation may negatively affect the performance of the gage.**
- **Use the gage in a place with minimal exposure to dust, oil, and oil mist.**
- **Use the gage in a place out of direct sunlight.**

3. Part Names and Specifications



Specifications

Code No.	7309	7308
Measuring range	0-10mm	0-.4"
Graduation	0.01mm	.001"
Accuracy	±20μm	±.001"
Maximum inserted depth	15mm	.59"
Parallelism of contact point and anvil	5μm	.0002"
Contact point	φ6 flat contact point	.24"DIA. flat contact point

4. Notes on Use

IMPORTANT

- **Do not suddenly activate the spindle or add an excessive horizontal load.**
- **Do not add an excessive load to the finger rest.**
- **Be sure to check the accuracy of the gage if the gage has been dropped or subject to other shock.**
- **Check that the operation of the spindle and long and short hands is smooth.**
- **Regularly check and adjust the zero point when using the gage in a place subject to temperature variation.**

5. Usage method

1) Wipe the contact point and surface of the measuring table to remove any dust.
2) Set the zero point.
   Set the anvil measuring surface as the reference surface.
   Use the finger rest and release to move the contact point up and down several times. Check that the graduation value when the contact point touches the reference surface is stable.
   Adjust the long hand so that it points to the zero graduation mark by rotating the bezel.
   Use the finger rest and release again to check that the zero point has not shifted.
3) Measure the workpiece.
   Use the finger rest and release to slowly bring the contact point into contact with the workpiece.
   Repeat this several times and read the value after checking that the graduation value is stable.

6. Maintenance and Repairs

IMPORTANT

- **Remove dirt or dust from the sliding surface of the spindle using a dry cloth or a cloth on which a small amount of alcohol has been applied.**
- **Remove dirt or dust on the bezel or digital display surface using a soft dry cloth or a cloth on which a neutral detergent has been applied. Do not use substances other than a neutral detergent to clean the bezel or digital display surface.**
- **Apply an anti-rust oil containing a small amount of anti-rusting agent to the measuring table before storing the gage.**
- **The performance deterioration of this gage differs greatly depending on the usage conditions. Customers are therefore advised to establish in-house standards that take into consideration the actual usage frequency, environment, and method, and perform regular maintenance checks on the gage based on these standards.**
- **Mitutoyo does not guarantee the performance of this gage if repair or disassembly has been performed by other than Mitutoyo.**

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