

Thank you for purchasing the S-Line Snap Gauge. Mount a digital micrometer or indicator to this precision gauge holder for precise hand held measurements of part dimensions.

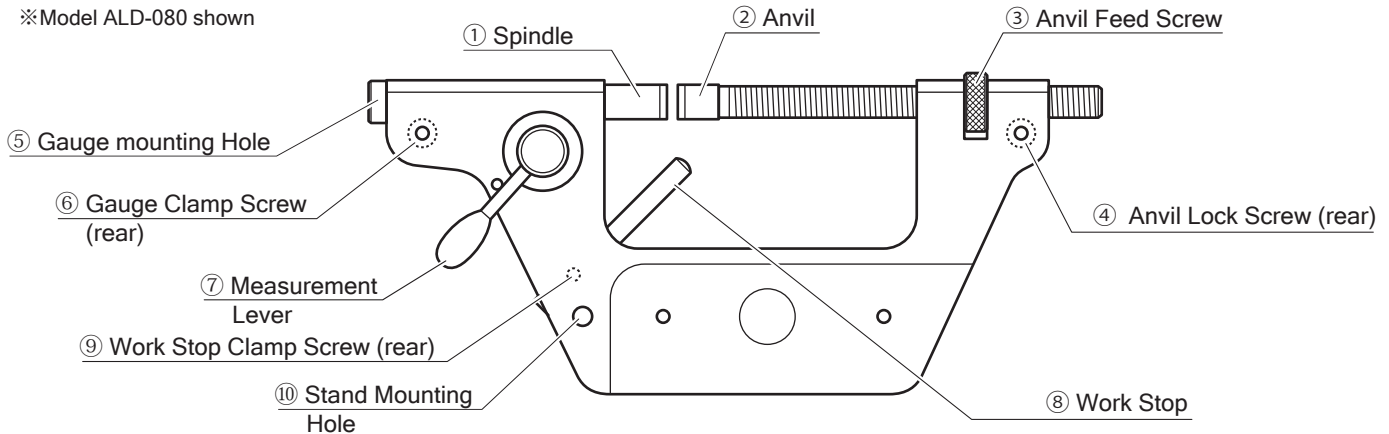
- For safe and proper use of this product, please read this instruction manual before use and follow the procedures described. Please keep manual where it is accessible to user for future reference.
- Keep this manual with the instrument if transferred or leased to a third party.
- For inquiries about this product, please contact dealer or Niigata Seiki at the address listed on the following page.

SAFETY NOTIFICATIONS

In this manual, ⚠ indicates RISK OF PERSONAL INJURY OR PROPERTY DAMAGE if not followed. The ⚡ symbol indicates something which is PROHIBITED, and the Ⓞ symbol indicates REQUIRED step or necessary condition.

PART IDENTIFICATION, FUNCTION

※Model ALD-080 shown



- | | | | |
|---------------------------|---|--------------------------------|---|
| ① Spindle | Movement displayed on Gauge. | ⑥ Gauge Clamp Screw (rear) | Tighten to secure Gauge. |
| ② Anvil | Workpiece is held between this and the Spindle. | ⑦ Measurement Lever | Press Lever to move Spindle. |
| ③ Anvil Feed Screw | For adjusting Spindle position. | ⑧ Work Stop | Guide for positioning cylindrical workpieces for measurement. |
| ④ Anvil Lock Screw (rear) | Fixes Anvil position. | ⑨ Work Stop Clamp Screw (rear) | Fixes Stop position. |
| ⑤ Gauge Mounting Hole | Mount your Gauge here (8mm Stem). | ⑩ Stand Mounting Hole | Mounting hole for attaching to Stand. |

SAFETY PRECAUTIONS

Please Observe

Always follow the procedures specified in order to prevent harm to yourself or others, and to prevent damage to property.

⚡ Denotes a prohibition
- You **MUST NOT** do

Ⓞ Denotes a requirement
- You **MUST** do



CAUTION Items where there is potential of **injury** or **property damage**.



Read the manual and follow all instructions.

- Use of product other than as described in the manual may cause accident.



Use only for measuring.

- Use for any purpose other than measuring may cause damage or wear to the instrument. Improper use may also cause accident.



Handle with Care.

- Do not drop or subject instrument to excessive shock. Do not place under heavy objects. Improper handling may cause damage or poor accuracy.
- Do not scratch instrument.



Press on Lever Gently

- Rough handling may cause damage or affect accuracy.



Use and store only in the following conditions:

- Dry location protected from rain, water, and oils.
- Protected from direct sunlight.
- Location that does not become hot.
- Location protected from use by children and unauthorized people.
- Use in conditions other than indicated above may result in poor accuracy, damage to product, or cause accidents or injury.



Do not disassemble or modify.

- Doing so may cause accident or injury. Please contact distributor or place of purchase for service.



After use, treat with rust preventive and store in dry location protected from direct sunlight.

- Spindle and Anvil require rust preventive after use to insure smooth operation.

WORKPIECE

Make sure the part being measured is appropriate. Use on parts which are not rigid may cause deformation during measurement or damage to workpiece.

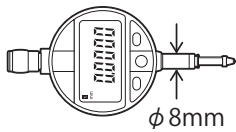
Material must not be easily deformed.

※ Depending on size and thickness, soft material such as aluminum or plastic may deform and measurement will be in error.

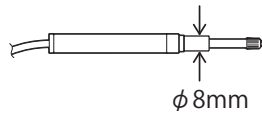
PREPARATION

■Preparing the Gauge

Measuring Gauge sold separately. Please provide a dial gauge or electronic micrometer with an $\phi 8\text{mm}$ mounting stem.



Dial Indicator

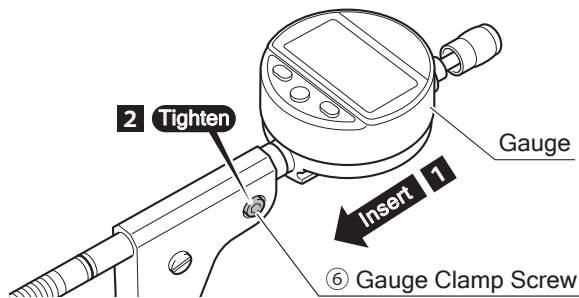


Electronic Micrometer

■Mounting the Gauge

Insert the Gauge into the Gauge Mounting Hole, and secure by tightening the Clamping Screw with a hex wrench.

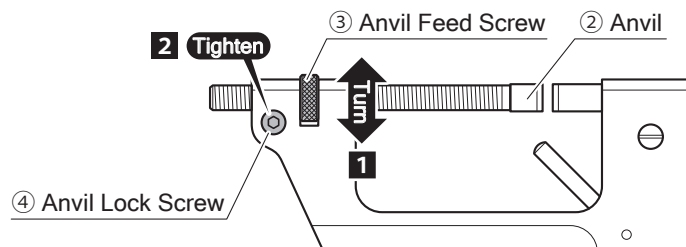
The Gauge should be inserted until it contacts and starts to move the spindle.



• Please use a Gauge with an $\phi 8\text{mm}$ stem diameter.

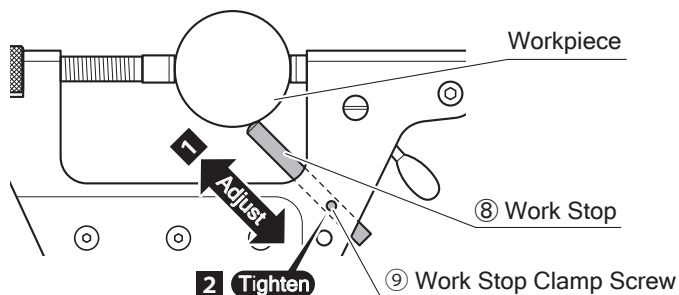
■Setting the Anvil Position

Turn the Anvil Feed screw to the position required for the workpiece being measured, and tighten the Lock screw with a hex wrench to secure.



■Setting the Work Stop

When using the Work Stop, adjust as required for the workpiece being measured and secure by tightening the Clamping Screw with a hex wrench.



HOW TO USE



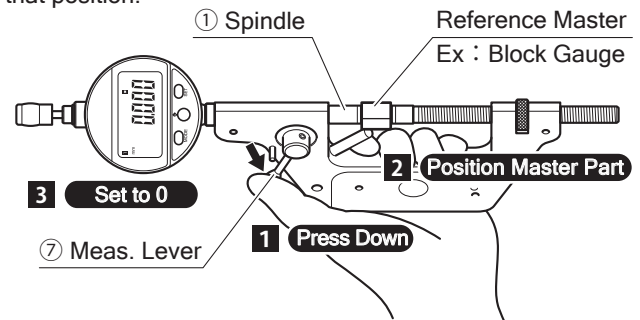
• Before use, clean the Spindle, Anvil, and Reference Master with a dry cloth to remove any grease or dirt.

■Operation

Since this is a comparative measuring instrument, a reference part or Master Part with same dimension as the workpiece is required.

1. Measure the Master Part.

Lower the Measurement Lever to open the Gauge, and insert the Master Part. Slowly return the Lever to pinch the Master Part and take a measurement. Set the Attached Gauge to 0 at that position.

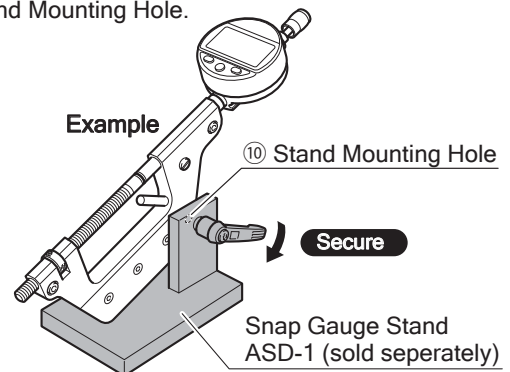


2. Insert the Workpiece to make a comparison

As before with Master Part, measure the Workpiece to take a comparative measurement.

■Using the optional Snap Gauge Stand

The Gauge can be mounted on the (optional) Snap Gauge Stand by the Stand Mounting Hole.



CARE & STORAGE AFTER USE

● Clean any dirt from the Anvil, Spindle, and main body, and apply rust preventive oil.

● Store in a cool, dry location.

Protect from moisture and direct sunlight, and unauthorized users.

SERVICE

● If Instrument is not working properly, or if you have any questions, please contact distributor or place of purchase.

● Please note, manufacturer is unable to respond to inquiries or provide service directly. Please contact distributor or place of purchase.

SPECIFICATIONS

Model No.	Meas. Range	Probe Size	Range of Motion	Weight	Parallelism	Flatness	Repeatability	Gauge Mount
ALD-040	0- 35mm	$\phi 2\text{mm}$ L5.5mm (on e side)	6mm	380g	$1\mu\text{m}$ 以下	$0.2\mu\text{m}$ 以下	$0.5\mu\text{m}$ 以下	$\phi 8\text{mm}$
ALD-040W		$\phi 8\text{mm}$		630g				
ALD-4080	35- 75mm	$\phi 9\text{mm}$		650g				
ALD-080	0- 70mm	$\phi 11\text{mm}$		1.78kg				
ALD-80150	75-140mm	$\phi 11\text{mm}$						

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