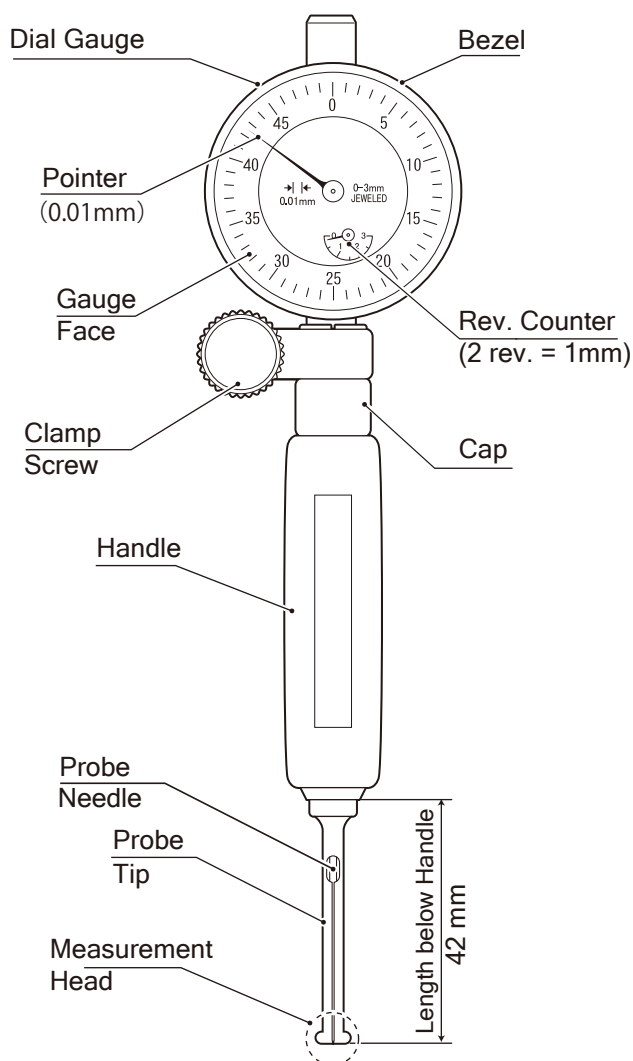


Thank you for purchasing the Dial Bore Gauge.
Please read this manual thoroughly before use for proper operation.

■ PART IDENTIFICATION



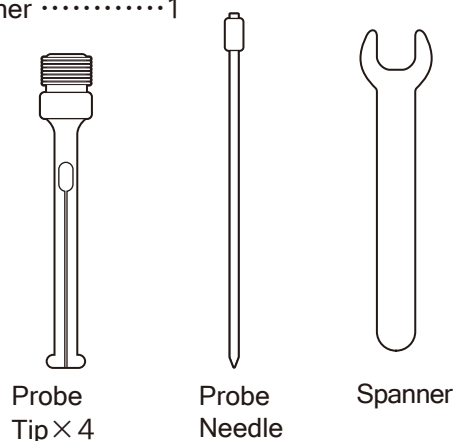
■ SPECIFICATIONS

* Including supplied Dial Gauge

Dial Gauge	WCDI-6
Measuring Range (mm)	4~6
Graduation (mm)	0.01
*Wide Range Accuracy (μ m)	10
*Adjacent Error (μ m)	5
*Repeat Accuracy (μ m)	3
Single Stroke Range (mm)	0.6
Weight (g)	175

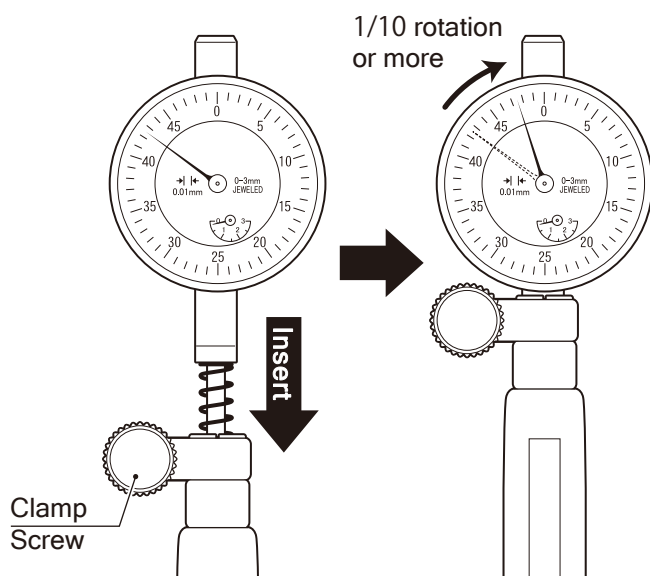
ACCESSORIES

- Four (4) Probe Tips for following range: 4.0~4.6 mm
4.5~5.1 mm
5.0~5.6 mm
5.5~6.1 mm
- Probe Needle1 (Note: When purchased, Probe Needle is inserted into Measurement Head)
- Spanner1



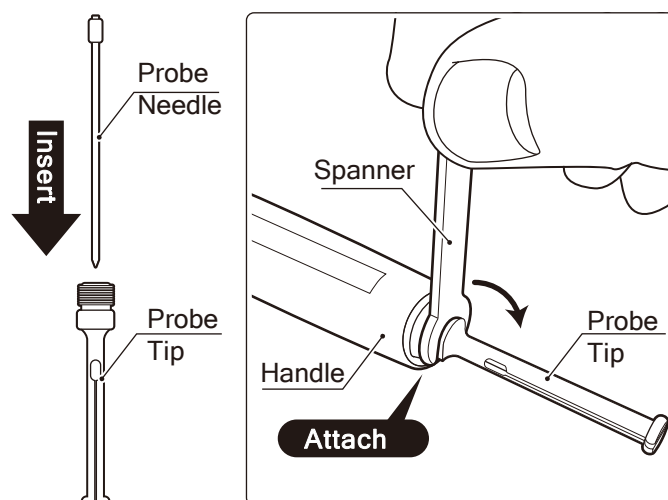
■ ASSEMBLY

① Loosen the Clamp Screw and insert the Dial Gauge until the Pointer rotates 1/10 turn or more. Tighten the Clamp Screw to secure.



② Insert the Probe Needle into the Probe Tip and screw onto the end of the Handle. Using Spanner, tighten to secure.

※ Select Probe Tip to match the desired measurement range.

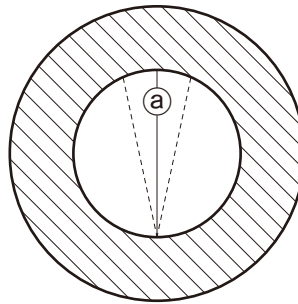


■ OPERATION

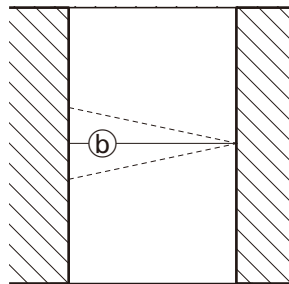
※ Before use, please make sure the Measurement Head is not loose on the Handle. Tighten as necessary.

SETTING THE 0-POINT

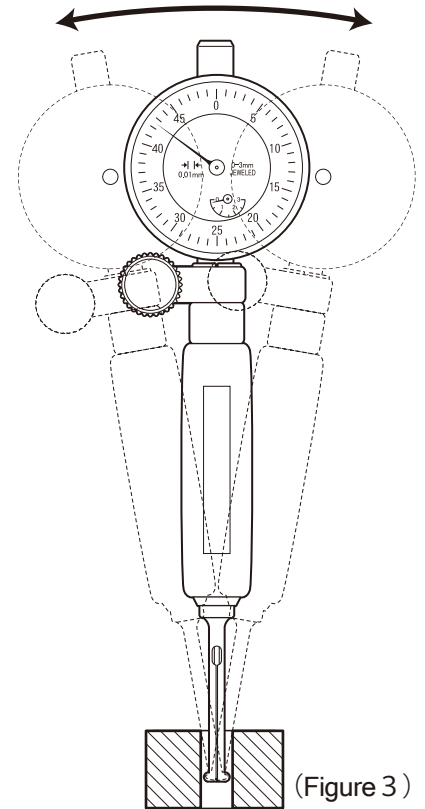
- ① Prepare a Ring Gauge to use as a reference standard for setting the zero-point. Insert the Measurement Head into the Ring Gauge.
- ② In the direction perpendicular to the Ring Gauge axis, position the Bore Gauge to measure diameter \textcircled{a} shown in the cross section (Figure 1). This is the maximum distance, and the Dial Gauge will show the minimum reading. The Gauge Head will automatically sit in this position when inserted.
- ③ In the cross section shown in Figure 2, parallel the Ring Gauge axis though diameter \textcircled{a} , position the Bore Gauge to minimize the distance \textcircled{b} . In this position the Dial Gauge will read the maximum value. This position is determined by manually moving the gauge and noting the position where the Pointer shows the maximum value. (Figure 3)
- ④ The reading obtained at step ③ is the zero-point. Rotate the bezel of the gauge until the Pointer is at the zero point of the Gauge Face. (Figure 4)



(Figure 1)



(Figure 2)

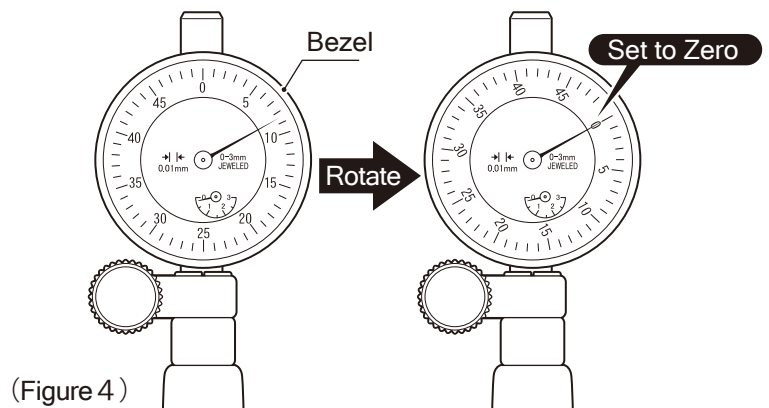


(Figure 3)

MEASUREMENT

Insert the Measurement Head of the Bore Gauge into the object to be measured. As in step ③ of "Setting the 0-Point" above, pivot the gauge while checking the pointer to determine the diameter \textcircled{b} where the indicator will show the maximum value to determine the measurement reading.

This measurement will be the difference in diameter between the part, and the reference Ring Gauge.



(Figure 4)

⚠ NOTICE

- This is a precision instrument, handle with care.
- Do not disassemble or modify.
- Keep instrument away from water and oil.
- Use only with supplied Probe Tip and Probe Needle.
- Keep instrument away from direct sunlight and high temperatures such as in a car, or near a stove or heat source.
- After use, remove dust and cutting chips, and apply rust preventative oil to to Probe Tip and Probe Needle. When not in use store in supplied storage case.
- This product is for measuring inside diameter; use only as directed. Improper use may cause accident or injury.

■ REPAIRS AND SERVICE

- If Gauge does not operate properly, or if you have any questions, please contact distributor or place of purchase.
- Please note, manufacturer is unable to respond to inquires or provide service directly. Please contact distributor or place of purchase.

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