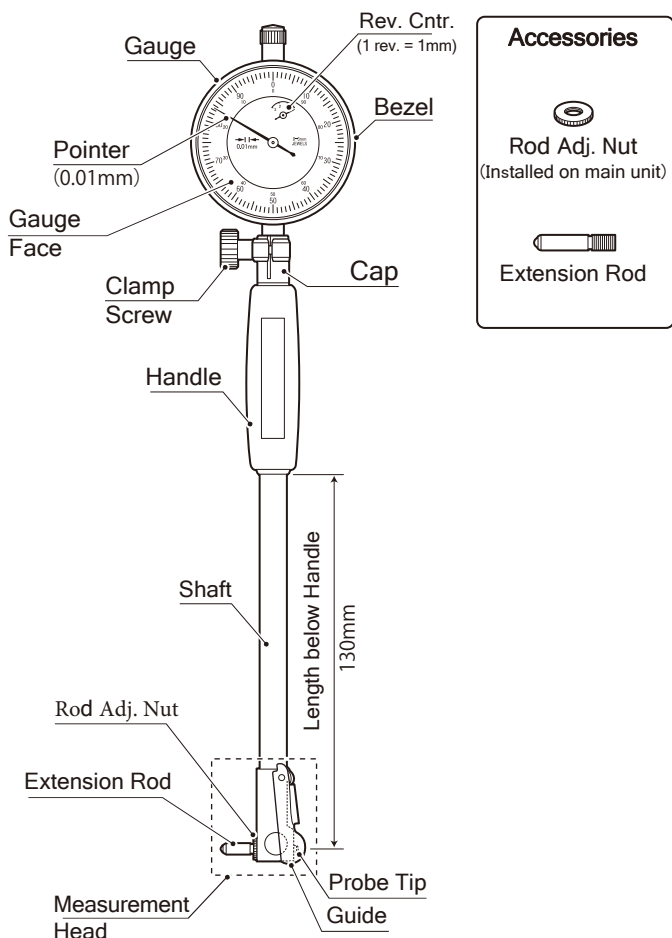


Thank you for purchasing the Dial Bore Gauge.
Please read this manual thoroughly before use for proper operation.

■ PART IDENTIFICATION



■ SPECIFICATIONS

* Including supplied Dial Gauge

Dial Gauge	WCDI-35
Measuring Range (mm)	18~35
Graduation (mm)	0.01
* Wide Range Accuracy (μm)	15
* Adjacent Error (μm)	5
* Repeat Accuracy (μm)	3
Single Stroke Range (mm)	1.0
Weight (g)	300

Extension Rods :

- 18.0~20.5mm
- 20.5~23.0mm
- 23.0~25.5mm
- 25.5~28.0mm
- 28.0~30.5mm
- 30.5~33.0mm
- 33.0~35.5mm

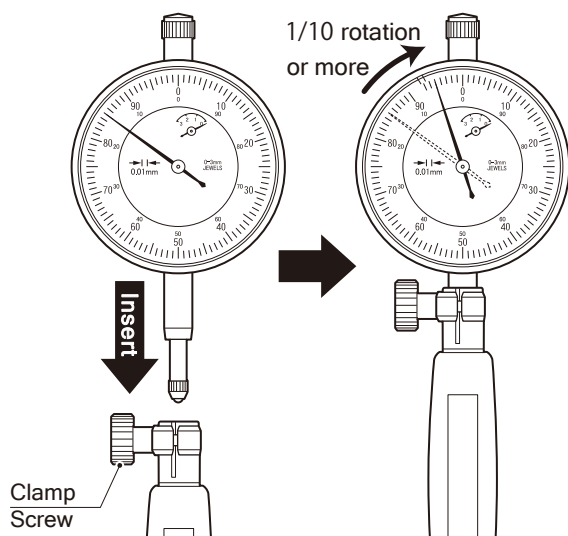
(7 pieces)

⚠ NOTICE

- This is a precision instrument, handle with care.
- Do not disassemble or modify.
- Keep instrument away from water and oil.
- Use only with provided Extension Rod and Rod Adj. Nut.
- 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 Extension Rod and Rod Adj. Nut. 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.

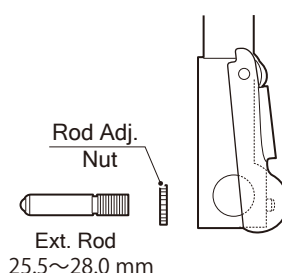
■ ASSEMBLY

- 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.

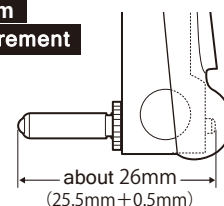


- ② Select the Extension Rod for the dimension you want to measure. Remove the Rod Adj. Nut, remove the Extension Rod, and replace with the desired Rod.
- ③ Adjust the Rod length as required for the measurement. The Rod length can be set to any dimension within the specified range. Measure the length from the Probe Tip to the end of the Rod, and screw in the Rod to adjust. Set that length to about 0.5mm longer than the dimension you want to measure. Confirm the desired length, and then screw the Rod Adj. Nut tight against the Measurement Head to secure the Rod.

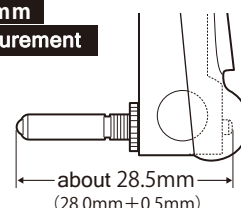
Ex.) Set for 25.5~28.0mm



25.5mm Measurement



28.0mm Measurement

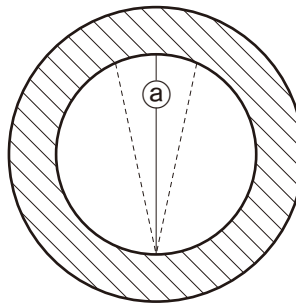


■ OPERATION

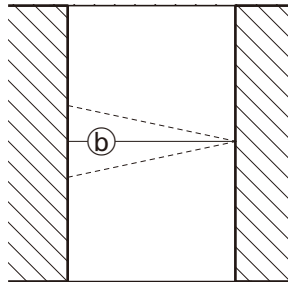
※ Before use, please make sure the Measurement Head is not loose on the Handle. Tighten as necessary.

SETTING THE 0-POINT

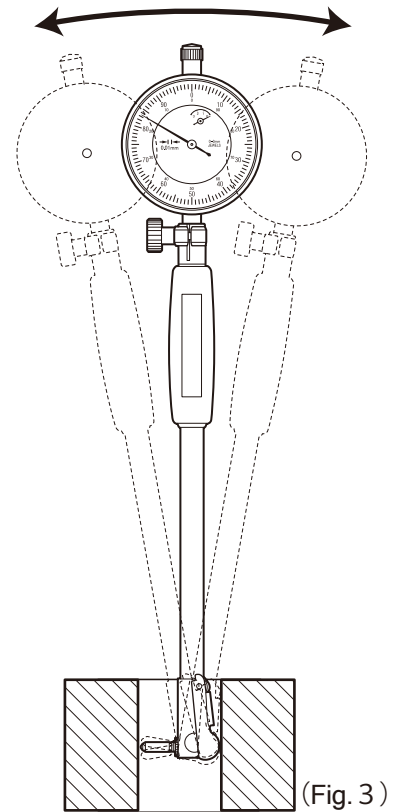
- ① Prepare a Ring Gauge to use as a reference standard for setting the zero-point. Insert the Measurement Head into the ring gauge.
- ② In the direction perpendicular to the Ring Gauge axis, position the Bore Gauge to measure diameter ① shown in the cross section (Figure 1). This is the maximum distance, and the Dial Gauge will show the minimum reading. The Guide moves to automatically position the Gauge Head at this diameter when inserted.
- ③ In the cross section shown in Figure 2, parallel the Ring Gauge axis though diameter ①, position the Bore Gauge to minimize the distance ②. 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)

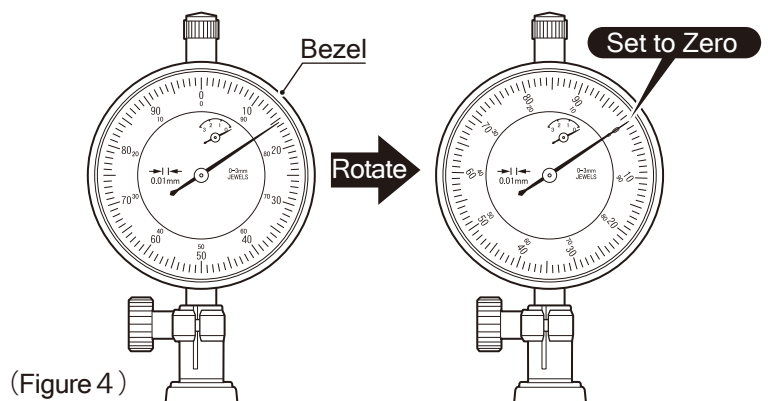


(Fig. 3)

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 ② 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)

■ 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.

SC Niigata Seiki Co., Ltd.

6-15-22, Tsukanome, Sanjo, Niigata, Japan 955-0055

TEL: +81-256-31-5670 FAX: +81-256-39-7730

MAIL: intl.sales@niigataseiki.co.jp

URL <http://www.niigataseiki.co.jp>

I387-K

1810