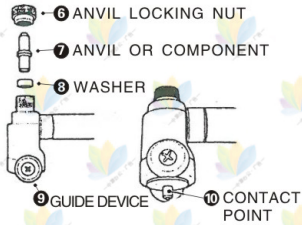
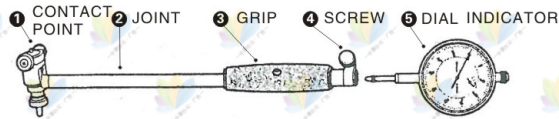


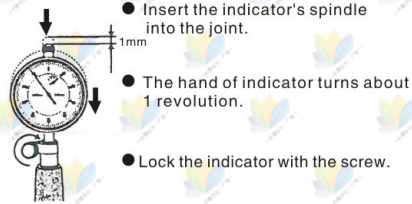
OPERATION MANUAL

NAME AND CONSTRUCTION



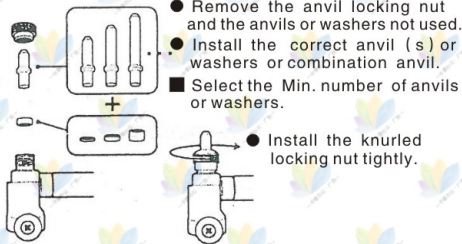
ASSEMBLING

Attaching the indicator



- Insert the indicator's spindle into the joint.
- The hand of indicator turns about 1 revolution.
- Lock the indicator with the screw.

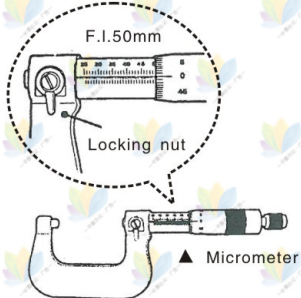
2 Selecting the anvils or combination anvil or washers



- Remove the anvil locking nut and the anvils or washers not used.
- Install the correct anvil (s) or washers or combination anvil.
- Select the Min. number of anvils or washers.
- Install the knurled locking nut tightly.

DIMENSION SETTING

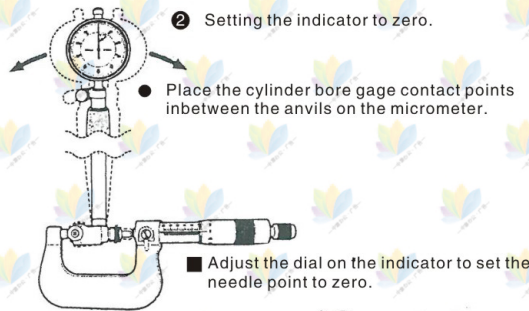
- 1 Set the diameter with an outside micrometer to the exact size to be measured.



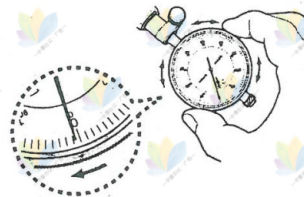
- Lock the micrometer at the correct size.
- Please note the micrometer's instruction.

2 Setting the indicator to zero.

- Place the cylinder bore gage contact points inbetween the anvils on the micrometer.



- Adjust the dial on the indicator to set the needle point to zero.

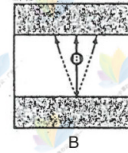


MEASURING AND READING METHODS



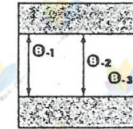
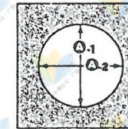
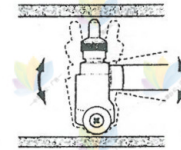
- When measuring vertical, place the bore gage in the center of the bore at position A.

- Rotate the bore gage left and right to find the smallest reading. This is the correct size of the bore.



- When reading the gage, if it is on the minus side of the dial, your bore is under the size you set it. If it is on the plus size, your bore is over the size you set the gage.

- When measuring horizontal, place the bore gage in the center of the bore at position A. Rotate the bore gage left and right to find the smallest reading. Also check the bore in several places to make sure the bore does not have any taper.



- To see how round the bore is, take two readings 90 degrees apart.

SPECIFICATIONS

Range	Resolution	Total error	Self-centering error	Repeatability
0.7-1.5"	0.0005"	0.0008"	0.00025"	0.0005"
1.4-2"	0.0005"	0.001"	0.00025"	0.0005"
2-6"	0.0005"	0.001"	0.00025"	0.0005"

ACCESSORY SPECIFICATIONS

Range	Extension	Anvil	Washer	Depth
0.7-1.5"		0.7-0.8", 0.8-0.9", 0.9-1.0", 1.0-1.1", 1.1-1.2", 1.2-1.3", 1.3-1.4", 1.4-1.5"		5"
1.4-2"		1.4", 1.6", 1.8", 2.0"	0.02", 0.05", 0.1"	6"
2-6"	2"	2.0", 2.2", 2.4", 2.6", 2.8", 3.0", 3.2", 3.4", 3.6", 3.8", 4.0"	0.02", 0.05", 0.1"	6"

CAUTION

- Do not disassemble or modify the gage.
- Do not drop or strike the gage.
- Clean and apply anti-rust oil after using. Disassemble the indicator (laying indicator with the gage together may affect the precision), place the gage in the box.