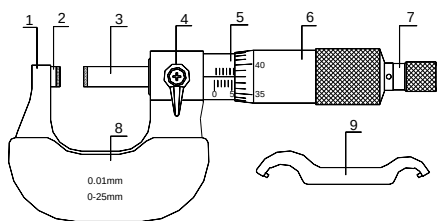


OPERATION MANUAL

OUTSIDE MICROMETER



1. Frame
2. Anvil
3. Spindle
4. Locking device
5. Sleeve
6. Thimble
7. Ratchet stop
8. Frame cover
9. Spanner

1. Use

Measuring various outside dimensions.

2. Zero Setting

Before using, clean measuring faces of the anvil and the spindle with soft cloth or soft paper, then bring them together carefully by turning the ratchet stop. If the line marked "0" on the thimble does not coincide with the reference line on the sleeve, adjust zero position in the following manners:

- 1) Deviation within $\pm 0.01\text{mm}$ (± 0.001 ")

Lock the spindle by the locking device then adjust the sleeve with a spanner until the reference line comes exactly in line with "0" line on the thimble.

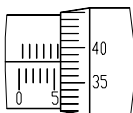
- 2) Deviation over $\pm 0.01\text{mm}$ (± 0.001 ")

Lock the spindle by the locking device and loose the ratchet stop by a spanner. Pressing the thimble to the ratchet stop bring it so that "0" line coincides with the reference line on the sleeve. Fasten ratchet stop and make the final adjustment.

If necessary, in the former way.

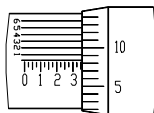
3. Reading

Metric



Sleeve	5.5mm
+ Thimble	0.38mm
Reading	5.88mm

Inch



Sleeve	0.35"
+ Thimble	0.008"
+	0.0002"
Reading	0.3582"

4. Precautions

Do not disassemble and drop the instrument.

Keep the instrument clean and dry.

Use ratchet stop to keep precision measuring.