

Code	Micrometer head			Dial indicator		
	Range	Graduation	Accuracy	Range	Graduation	Accuracy
3333-25	0-25mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-252	0-25mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-50	25-50mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-502	25-50mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-75	50-75mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-752	50-75mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-100	75-100mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-1002	75-100mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-125	100-125mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-1252	100-125mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-150	125-150mm	0.01mm	4μm	±0.07mm	1μm	±1μm
3333-1502	125-150mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-175	150-175mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-200	175-200mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-225	200-225mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-250	225-250mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-275	250-275mm	0.01mm	4μm	±0.14mm	2μm	±2μm
3333-300	275-300mm	0.01mm	4μm	±0.14mm	2μm	±2μm



- 1-Limit hand
- 2-Dial plate
- 3-Adjusting screw
- 4-Limit pointers adjustment knob
- 5-Pointer
- 6-Anvil with carbide measuring face

- 7-Spindle with carbide measuring face
- 8-Locking spanner
- 9-Sleeve
- 10-Thimble
- 11-Button
- 12-Spanner
- 13-Hex key

1. This product is convenient for Go/No-Go judgement for mass production.

2. Zero calibration:
  - Clean the measuring faces with soft cloth.
  - Rotate the thimble, when the two measuring surfaces are lightly touched, continue to rotate the thimble until the pointer point the zero, then tighten the locking spanner. If the reading of the thimble is zero, it can be directly measured; If there is a minor deviation, use the spanner 12 to catch the double nut at the end of the thimble slightly rotated (Fig.1), until align the zero scale of the thimble with the sleeve reference line.
  - Micrometer should be checked regularly to make sure that it is properly zero set.



Fig.1

3. Setting tolerance:
  - Turn the limit pointers adjustment knob counterclockwise to set the upper tolerance, turn the limit pointers adjustment knob clockwise to set the under tolerance.
4. Measurement:
  - Alignment measurement
    - Select the standard part, loosen the locking spanner, rotate the thimble to make the standard part contact the measuring surface of the micrometer, continue to rotate the thimble until the pointer point the zero near, and lock the locking spanner.
    - Turn the adjustment screw until the Pointer points to zero and lock the lock screw with the Hex key (Fig. 2).

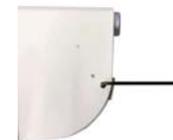
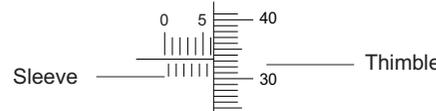


Fig. 2

- Press the button, put the workpiece into between the measuring faces, release the button, make the workpiece and measuring faces contact completely.
- Get the result from indicator. If the pointer is located to the left position, the workpiece is larger than the standard part; otherwise, the pointer is located to the right position, the workpiece is smaller than the standard part. Set tolerance range to judge workpiece Go or No-Go.
- After the reading is completed, press the button to remove the workpiece.

Direct measurement: The measuring method is as before. Make workpiece and measuring faces contact, rotate the thimble to make pointer point the zero, and get the result by micrometer head.

5. During reading, the sight is perpendicular to the scale to avoid parallax reading. The reading is the sum of sleeve, thimble. If the range is 0-25mm, the reading results are as follows:



Sleeve reading: 6mm  
 Thimble reading: 0.333mm(3 is estimated)  
 Reading: 6.333mm

MN-3333-E