



# OPERATION INSTRUCTION

## Dial Indicator (Long Stroke)

Graduation: 0.01mm

Code	Range	Accuracy	Hysteresis	Range/rev	Dial reading	Remark
<b>2310-20A</b>	20mm	25 $\mu$ m	5 $\mu$ m	1mm	0-100	lug back
<b>2310-30A</b>	30mm	35 $\mu$ m	7 $\mu$ m	1mm	0-100	lug back
<b>2310-20FA</b>	20mm	25 $\mu$ m	5 $\mu$ m	1mm	0-100	flat back
<b>2310-30FA</b>	30mm	35 $\mu$ m	7 $\mu$ m	1mm	0-100	flat back



- 1-Dustproof cap
- 2-Limit pointers
- 3-Long hand
- 4-Bezel
- 5-Stem
- 6-Spindle
- 7-Bezel clamp
- 8-Revolutions pointer
- 9-Contact point

1. The dial indicator should be mounted on a rigid holder to use.

2. Clamping:

Clamping the stem for flat back dial indicator. For lug back, the dial indicator can be mounted by clamping the lug or stem. If the dial indicator is mounted by clamping the stem, please do not apply excessive clamping force, which will affect the movement of the spindle.

3. During measurement, the spindle should be vertical to the workpiece surface, otherwise, the measurement may not be correct.

Caution: please do not move the spindle quickly or apply lateral force on the spindle.

4. After measurement, please oil the contact point. The spindle should not be oiled, otherwise, the movement of the spindle will not be smooth.

5. If the dial indicator drops or be shocked, please inspect the measuring accuracy before using.

6. Optional accessories: backs(code 7330-L2/F2), contact points(series 6282).

In order to get accurate measurement, it is necessary to choose contact point according to the shape of the workpiece. Measuring columned workpiece should choose knife edge point, measuring spherical workpiece should choose flat point, the needle point should be chosen when measuring concave or complex shape workpiece.