

JJG-3 Inclinometer Calibrator

Summary

This instrument is designed and made as per geological industry standard DZ 0023 Universal Technical Specifications of Inclinometer Calibrator. It is an upgraded equipment of model JJG-2 Inclinometer Calibrator. The measuring precision of dip angle is highly improved.

This instrument is used to verify and check different kinds of inclinometers to confirm the measuring precision of dip angle and azimuth angle of the inclinometer.

I. Main technical features

1. The measuring range for the dip angle is $0^{\circ}\sim 90^{\circ}$. The measuring precision is $1.8'$. It is the most precise inclinometer calibrator in China.
2. Fine adjusting unit is equipped. Easy to adjust the position of dip angle precisely.
3. All components of the instrument adopt non-magnetic material.
4. Advanced technology and high precision. Fully meet the requirements of the specifications.
5. Clamp diameter is $\Phi 62\text{mm}\sim\Phi 76\text{mm}$. The special clamp is equipped. It is suitable to calibrate different kinds of inclinometers.

II. Main technical specifications

1. Dip angle
 - (1) Measuring range: $0^{\circ}\sim 90^{\circ}$
 - (2) Measuring precision: $1.8'$
 - (3) Scale division: 1°
 - (4) Scale bias: $\leq 1.8'$
 - (5) Vernier reading: $1.2'$
2. Azimuth angle
 - (1) Measuring range: $0^{\circ}\sim 360^{\circ}$
 - (2) Measuring precision: $12'$
 - (3) Scale division: 1°
 - (4) Scale bias: $\leq 3'$
 - (5) Vernier reading: $12'$
3. Sensitivity of level bulb: $30''/2\text{mm}$
4. Clamp diameter: $\Phi 62\text{mm}\sim\Phi 76\text{mm}$
5. Non-perpendicularity bias: $\leq 12'$
6. Dimension: Diameter 1m, height 1.18m.

