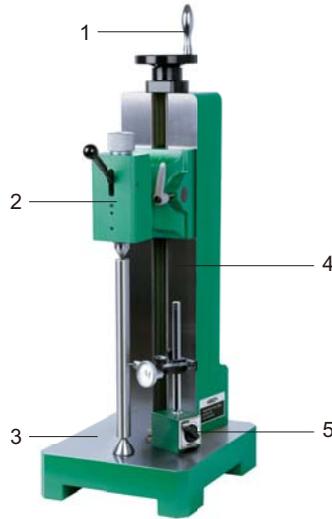


Vertical Bench Center

Parallelism: 0.01mm (Parallelism of the line between two centers to the guide surface)
Runout accuracy: 0.002mm

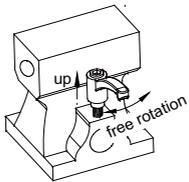
- 1-Handwheel
- 2-Tailstock
- 3-Base
- 4-Guide surface
- 5-Magnetic stand(optional)



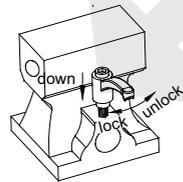
1. Bench center is mainly used to measure cylindrical workpiece's circular runout, roundness, concentricity and deflective difference.

2. Description of each part:

Tailstock: Rotate handwheel to move tailstock, rotate wrench clockwise to fix it (lift the wrench, rotate the wrench counterclockwise, put down the wrench, and then rotate wrench clockwise. Do these steps until tailstock is fixed.).



Lift the wrench to rotate freely

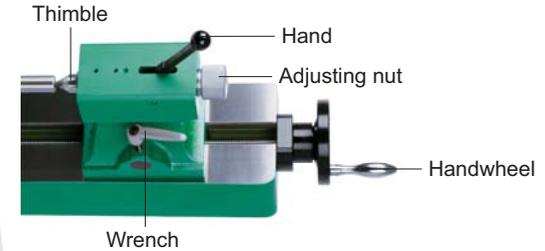


Put down the wrench, rotate clockwise to lock, and counterclockwise to loosen

Handle: Press the handle to install the workpiece.

Adjusting nut: Rotate the adjusting nut to adjust the pressure of thimble, avoid clamping excessively.

Handwheel: Rotate handwheel to move tailstock.



Magnetic stand: Choose the right dial test indicator and magnetic stand to install

3. Measurement:

- It is necessary to clean faces of guide surface, guide way, thimble, workpiece before measurement
- According the size of workpiece, move tailstock to set the distance, and fix it
- Press handle to install the workpiece and release it, rotate adjusting nut to adjust pressure appropriately
- Dial test indicator should be prepressing, the direction of the measuring point is close the workpiece's axes as far as possible, rotate handwheel, get the result

4. Notice:

- Be careful to control the force applied on the wrench to avoid damaging internal locking device
- Tailstocks should be moved carefully, avoid thimbles' collision
- Take workpieces down carefully and forbid to drop workpieces on the guide surface to avoid damaging.
- Avoid placing the product in the air with moisture to prevent rustiness, oil it after use
- The handwheel may be tight when moving up, you need to hold the tailstock, and then rotate the handwheel



5. Optional accessory: magnetic stand, dial test indicator.