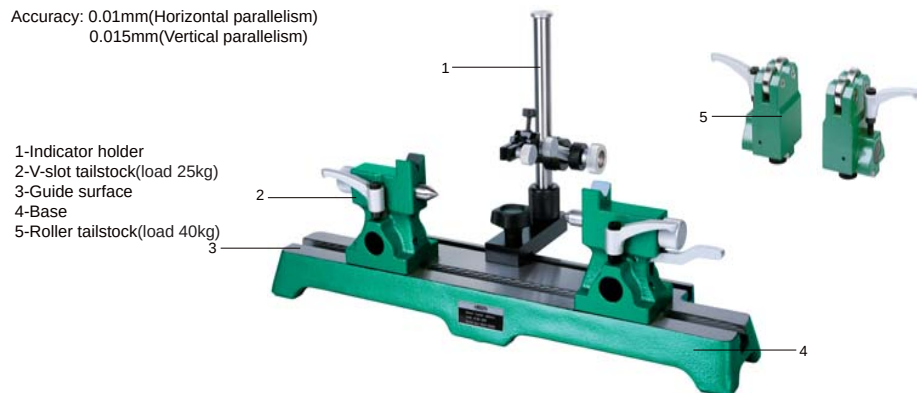


OPERATION INSTRUCTION

Bench Center Series 4720

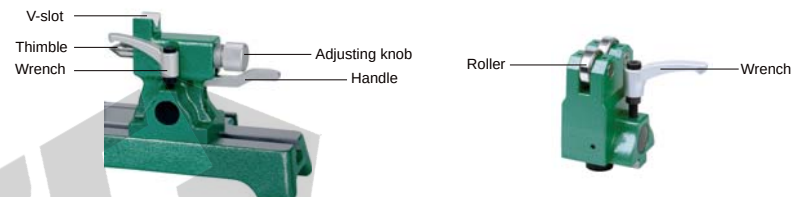
Accuracy: 0.01mm(Horizontal parallelism)
0.015mm(Vertical parallelism)



--- Fix workpieces

For center tailstocks, press the handle to install the workpiece, rotate the adjusting knob to adjust the pressure of thimble, and avoid clamping excessively.

For roller tailstocks, put the measuring workpiece on the fixed roller tailstocks to start a measure.

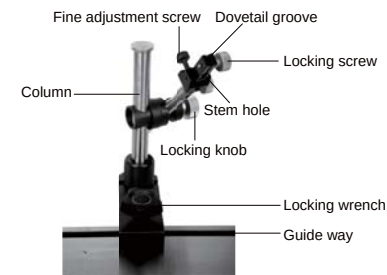


Indicator holder clamp the indicator:

--- Clamp the indicator by dovetail groove or stem hole, fix it with the locking screw. Adjust the indicator with the fine adjustment screw. Loosen the locking knob, arm can be moved through column and rotated freely, adjust appropriately and tighten the locking knob. Loosen the locking wrench, indicator holder can be moved through guide way.

--- Roll the workpiece to start a measure, and read the results on the indicator.

Notice: Open the package, take out product, it is necessary to install the indicator holder: unscrewing the locking wrench, lift up indicator holder, rotate 180°, put indicator holder back the guide way, screw on the locking wrench, indicator holder with the right position as the following picture.



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

2. Usage of measurement:

Choose the suitable tailstocks according to the measuring workpiece, center tailstocks can be used for cylindrical workpiece with female center (fig.1), V slot tailstocks are for small diameter ($\varnothing 4-22\text{mm}$) cylindrical workpieces without female center (fig.2), while roller tailstocks are suitable for big diameter ($\varnothing 5-100\text{mm}$) cylindrical workpiece without female center (fig.3).



fig.1



fig.2



fig.3

--- Tailstocks can be moved through guide surface, move the tailstocks to suitable places according to the length of measuring workpiece, and then fix it with rotating wrench clockwise.

Lift the wrench, rotate the wrench counterclockwise, put down the wrench, and then rotate wrench clockwise. Do those steps until the left tailstock is fixed.

3. Notice:

- Be careful to control the force applied on the wrench to avoid to damaging the internal locking device
- Tailstocks can be moved carefully, avoid the 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

4. Optional accessory: Dial test indicator(code: 2880-02, 2897-02)