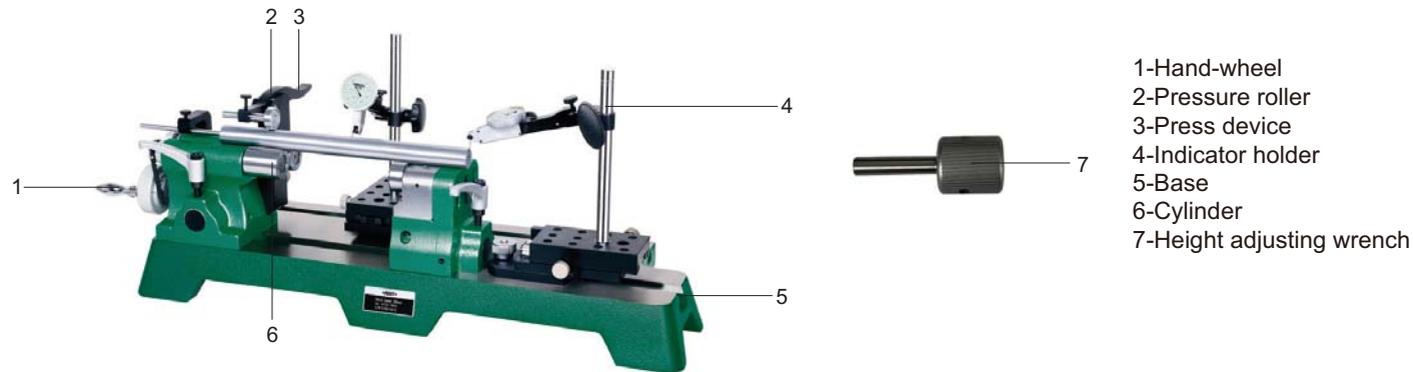


Code	Runout accuracy	Applicable diameter	Adjustable height	Remarks
4733-300A	2μm	Ø8-60mm	0-15mm	with handwheel
4733-300B	2μm	Ø8-60mm	0-15mm	without handwheel

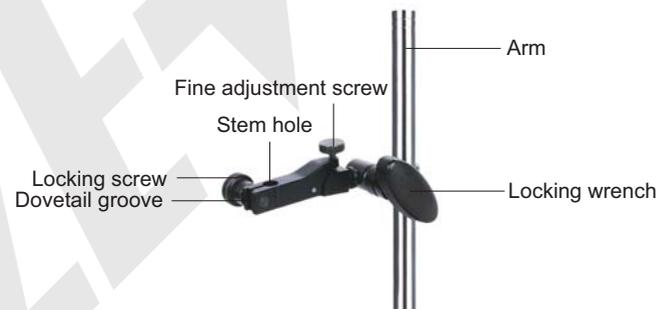


- 1-Hand-wheel
- 2-Pressure roller
- 3-Press device
- 4-Indicator holder
- 5-Base
- 6-Cylinder
- 7-Height adjusting wrench

Table: After installing the indicator, install the limit slider and limit slider locking screw on the appropriate limit hole and adjust the limit slider to the right location. Loosen the table locking screw to move the table quickly and facilitate the removal of the workpiece.



Indicator holder: Clamp the indicator to fix it. Clamp the indicator by dovetail groove or stem hole, the direction of fine adjusting movement is contrary to the direction of the measuring point by force, which avoids to affect the result. Loosen locking wrench, locking device can move freely, tighten it after setting its position.



### 3. Usage:

---Holding probe as below ways.

Caution: To avoid the measurement error which caused by fine adjustment elasticity, the lever needle and the fine adjustment screw should be located at the opposite side(fig.1);  
When working, adjust the fine adjustment screw so that component 1 is between the top of thread and the middle of thread, to increase the elasticity of head, do not let component 1 be at the bottom of thread(fig.2).

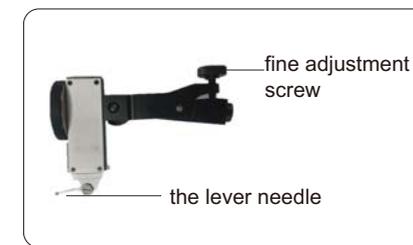


fig.1

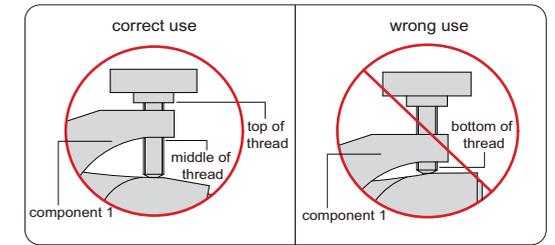


fig.2

### 4. Measurement:

- It is necessary to clean faces of guide surface, guide way, cylinder, pressure roller, workpiece before measurement
- Before measurement, move the left tailstock in the appropriate position, and fix it.
- According the size of the workpiece, move the right tailstock to set the distance, and fix it. Set the right height according to the workpiece diameter
- Press the handle to install the workpiece and release it, rotate adjusting knob to adjust the pressure appropriately
- Install the indicator, adjust the appropriate position, rotate the workpiece to measure circular runout, get the result from the indicator

### 5. Notice:

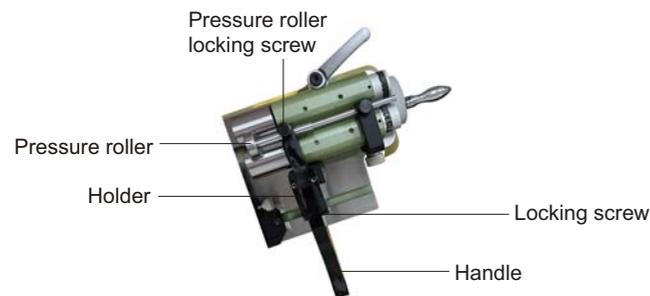
- Be careful to control the force applied on the wrench to avoid damaging internal locking device
- Tailstocks should be moved carefully, avoid cylinders' collision
- Take workpieces down carefully and forbid to drop workpieces on the guide surface to avoid damaging.
- Avoid placing the product in the air with moisture to prevent rustiness, oil it after use

### 6. Optional accessory: Dial test indicator(code: 2880-02, 2880-02R).

1. Bench center is mainly used to measure used to measure cylindrical workpiece's circular runout.

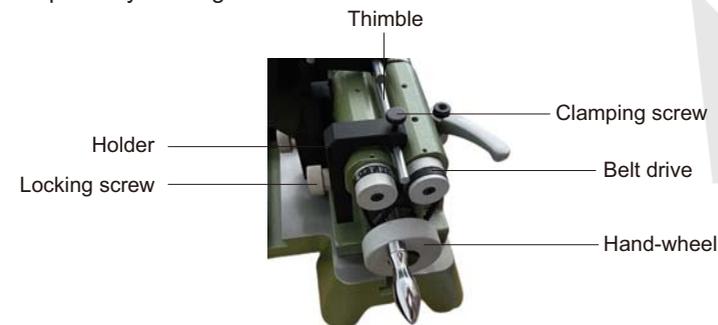
### 2. Description of each part:

Press device: Fix the workpiece with the pressure roller. The holder can be moved up and down, fix it by the locking screw. Pressure roller can be moved left and right, fix it by the pressure roller locking screws.



Thimble: Put it at the right end of the workpiece to prevent workpiece from moving right. Thimble can be moved left and right, fix it by clamping screw. Holder can also be moved up and down, fix it with hex wrench tightening the locking screw.

Hand-wheel: Move the workpiece by rotating hand-wheel.



Adjustable height tailstock: The tailstock can be adjusted to different heights by turning the disc with the height adjusting wrench. Suitable for inspecting workpieces with

