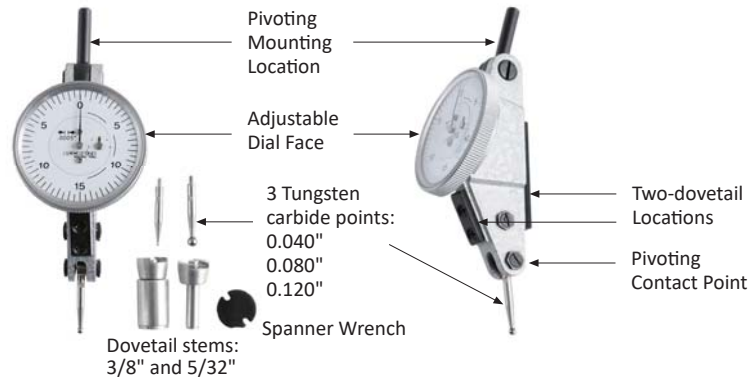


# MANUAL INSTRUCTION OF HORIZONTAL TEST INDICATOR



Product No: 0511-2001



## SPECIFICATIONS

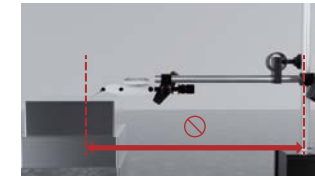
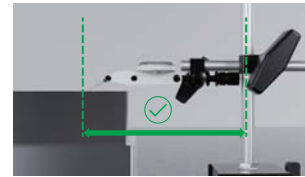
- Model No.: 0511-2001
- Range: 0.060"
- Graduation: 0.0005"
- Dial reading: 0-15-0
- Dial diameter: 1.5"
- 210° swivel arc



## TO USE THE INDICATOR, FOLLOW THESE STEPS

1. Mount the indicator on a magnetic base or a clamp and attach it to a rigid surface near the workpiece.
2. Adjust the position and angle of the indicator so that the contact point touches the workpiece lightly and the dial face is easy to read.

3. Zero the indicator by rotating the bezel until the pointer aligns with the zero mark.
4. Move the workpiece or the indicator along the horizontal plane and observe the dial reading. The reading indicates the amount and direction of deviation from the horizontal plane in thousandths of an inch or millimeters.
5. Repeat steps 2 to 4 for different points on the workpiece to check its flatness, parallelism, or alignment.

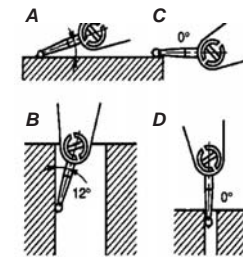


## DURING SETUP

- Keep the indicator as close as possible to the main shaft of the base.
- The farther away the indicator is from the base, the more it will be affected by vibrations, deflections and droop in the different arm connections. This can cause errors in the measurement.

## TEST INDICATOR-EXTENDED RANGE INSTRUCTIONS

- These dial test indicators provide the accurate reading when the contact point and the surface to be measured form a 12° angle (as in position A and B). This allows the workpiece to move freely under the dial test indicator's body.
- Exception: any configuration of an angle other than 12° needs the result to be corrected. E.g.: when the contact point is parallel to the surface of the workpiece (as in position C and D), a compensation value of  $1/\cos(12^\circ) = 1.022$  needs to be added:



*Be noted that it is difficult to align the stylus at 12°, so the measured value can only be an approximation.*

$$\text{Meas. Value} = \text{Reading Value} \times 1.022$$



Accusize Industrial Tools  
Tel: 1-888-668-0012  
www.accusizetools.com