

Please read through this owners manual carefully before using your new tool. Use your tool properly and only for its intended use.



## 2 Dimensional Coaxial Indicator Set

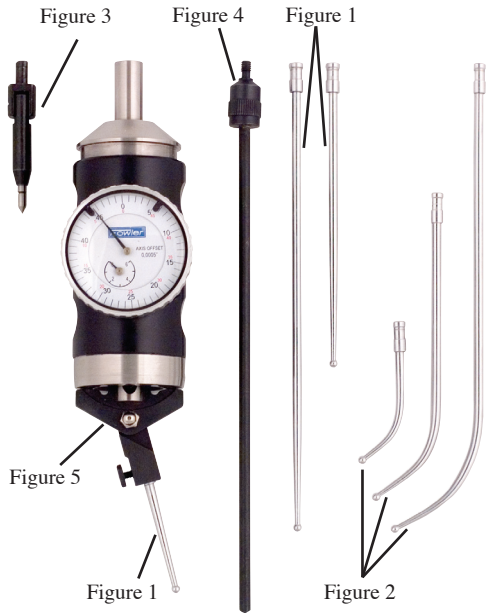
The coaxial indicator is a precision centering instrument that is not only for use in locating a work-piece under machining and measuring conditions but also for positioning work in the situation where it may be desirable to turn the machine spindle by hand.

### COAX-2D

#### Measuring Applications:

The coaxial indicator is equipped with three different types of feelers along with a restraining arm for keeping the dial stationary during rotation.

- 1. Straight Feeler:** For inside measurements. See Figure 1.
- 2. Curved Feelers:** For outside measurements and when an outside measurement is more than one inch. See Figure 2.
- 3. Center Point Feeler:** For use on center punch marks. The spring loaded point should be depressed into its housing 1/32 to 1/16 inch. See Figure 3.
- 4. Restraining Arm:** See Figure 4.



#### Setting and Operating Procedures:

1. Mount the appropriate feeler for your application in the indicator bracket and secure it with the thumbscrew. Mount the indicator in the machine spindle. Position rocker bracket on rocker friction joint (Fig. 5) so that the feeler is in operational contact with the work-piece. Attach the restraining arm to the side of the coaxial indicator and rest it against a sturdy object such as an upright post of a magnetic base.
2. Start the machine spindle. **CAUTION:** Check for interference before turning on the power. Spindle speed should not exceed 800 RPM at any time.
3. Move the machine table along one axis to a point where the indicator hand has moved to its reversal point thus indicating that the work center is centered in the spindle plane in that direction.
4. Move the machine table along the other axis until the indicator hand moves to its reversal point thus indicating that the work-piece center is in axial alignment with the machine spindle.

**NOTE:** When the feeler is moved in a radial position from the work-piece, the reading on the indicator is an axis offset and each division represents 0.00025".

Under normal conditions, this instrument should not require servicing and needs only the consideration in use and handling due to any precision instrument.