

## ***Using Your Easy-Laser® as a Dial Indicator and Rough Alignment Procedure*** ***By Paul Berberian***

### **Use your Easy-Laser® as a Dial Indicator - Validity Rule**

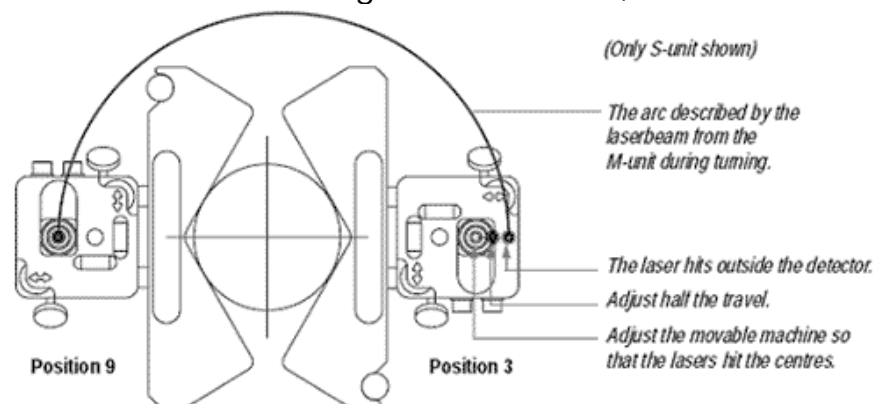
It is possible to use any Easy-Laser shaft alignment system as a dial indicator by reading the "live" values as the PSD's are moved in either the "Horizontal" or "Values" program.

#### **The rule states: top + bottom = left + right**

Set-up on a horizontal machine and enter the dimensions as prompted. Place the lasers at **12:00** when the display asks for 9:00 position. Press enter, rotate to the 6:00 position and read the S and M values. Repeat this procedure from 9:00 to 3:00. If the values are within 0.0 -- 1.0 mils the machine can be aligned as usual. If you have a 1.0 to 1.5 mils difference check for a mechanical defect i.e. bent shaft or soft foot. If the difference is greater than 1.5 mils the machine may not be able to come into proper alignment without some attempt to correct the defects.

### **Rough Alignment Procedure**

When turning the shafts with measuring units mounted, the laser beams will project arcs where the centers will coincide with the centers of the shafts. During the turning, the laser beams will move on



the detector surfaces. When the alignment is poor, the beams may travel outside the detectors. If this happens, you will have to do a rough alignment first.



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Preparations: mount the equipment, specify the distances.

**Rough alignment procedure**

- 1. Turn shafts with measuring units to the 9 o'clock position. Aim the laser beams at the center of the closed targets.*
- 2. Turn shafts with measuring units to the 3 o'clock position.*
- 3. Check where the laser hits, then adjust the beam half the travel in direction to the center of the target (see picture below).*
- 4. Adjust the movable machine so the laser beam hits the centers of both targets.*
- 5. Open the targets before the measurement. Done.*

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*Since 1985, Alignment Supplies, Inc. has served the rotating machinery industry with a complete line of alignment-related products for shaft and machinery alignment. As the US Master Distributor for Easy-Laser®, Alignment Supplies, Inc. has the experience, resources, and equipment to address any alignment need. Contact us at 419.887.5890 or at [www.alignmentsupplies.com](http://www.alignmentsupplies.com).*