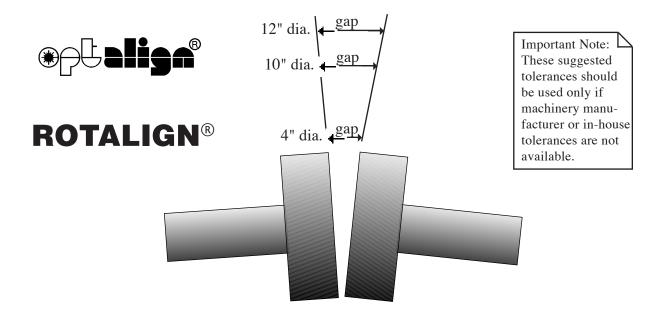
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## Why Not Use A 10" Diameter in the Coupling Mode?



When checking the angularity [gap] against tolerance in the Coupling Mode , we will get the same answer no matter what coupling diameter we use when we look at our result per inch of diameter.

To get angularity [gap] results per inch of diameter, we divide the gap by the diameter at which it was measured. Which of these would you rather explain without a calculator?

- a gap of 5.4 Mils at the 12" diameter?
- a gap of 4.5 Mils at the 10" diameter?
- a gap of 1.8 Mils at the 4" diameter?

Since the Optalign® and Rotalign® show the gap at the diameter of your choosing, it is *much* easier to work with the default 10" diameter! In the above examples the results are exactly the same — because the angle is the same — .45 *Mils per inch of diameter*! If the Gap is correct at 10" it is correct for any diameter!

This gap of 4.5 Mils (.45 Mils/inch) would not be considered "Excellent" at 1,800 RPM since the angularity [gap] tolerance is 3.0 Mils/10" (.3 Mils/inch). It would meet the "Acceptable" tolerance though of 5.0 Mils/10" (.5 Mils/inch).

You can also multiply the angularity [gap] tolerance by the actual diameter and compare your result with the *actual* gap as checked with feeler gages or dial indicators. But, the default 10" diameter works - so why not use it!

Note:  $1 \text{ Mil} = \frac{1}{1000}$ "

RPM	GAP (mils/10") □/ਨ Excellent Acceptable		OFFSET (mils)		SPACER SHAFT (mils/in.) Excellent Acceptable		
600	10.0	15.0	5.0	9.0	1.8	3.0	1/2 = .500 5/8 = .625 3/4 = .750
900	7.0	10.0	3.0	6.0	1.2	2.0	
1200	5.0	8.0	2.5	4.0	0.9	1.5	7/8 = .875
1800	3.0	5.0	2.0	3.0	0.6	1.0	Related Produc
3600	2.0	3.0	1.0	1.5	0.3	0.5	SS Shims:     Kits & Packs
7200	1.0	2.0	0.5	1.0	0.15	0.25	Portable Jack

Note: The wallet sized Tolerance table is shown.
A full size Tolerance table is also available.
Go to: http://www.laseralignment.net/