

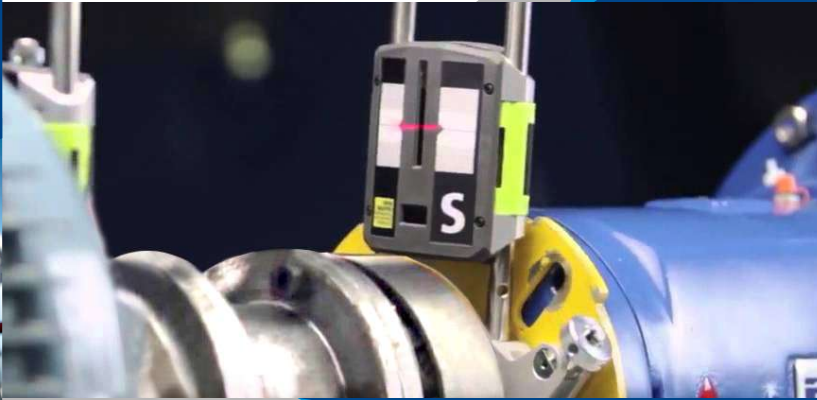
NEW

# SHAFT LASER ALIGNMENT SERVICES

Powered By  
**Fixturlaser**  
Brand of ACOEM



**RELIABILITY  
TECHNICAL  
SERVICES**



Orac Systems is proud to introduce the provision of **Laser Shaft Alignment** services to all industries using the highly rated Fixturlaser alignment equipment. Some of the equipment we have been aligning are:

- Mill Motor to Gearboxes
- Gearbox to Pinion
- Compressor Alignment
- Pump Alignment
- Industrial Fans and Blower Alignment
- Turbines Alignment and many more.

**Laser Shaft Alignment** is the process of aligning two or more shafts with each other to within a specified tolerance. Our twin laser alignment tool ensures a high degree of accuracy and repeatability and is also very easy to use. It is essential to ensure drive shafts are in perfect alignment before valuable equipment is put in to service. **Orac Systems** is a leader in the field of shaft alignment using laser technology, through the use of Fixturlaser NXA Pro equipment,

One of the common misconceptions in our industry is that precision shaft alignment is not needed when using flexible couplings. Studies have show that nearly 50% of all machine breakdowns is due to misalignment. So what happens to misaligned machines?

## EFFECTS OF MISALIGNMENT

### Misalignment and Power Consumption

Misalignment has a direct impact on the power consumption. Documented cases have shown savings ranging from 2 to 17%.

### Misalignment Effects on Bearings and Seals

The operating life span of a bearing is directly affected by the forces it is exposed to. The slightest misalignment can generate excessive forces to bearings and seals. A misaligned machine causes stress to both bearings and shafts. As an effect of this, the seals open up, allowing lubrication leakage and contamination to enter. Thereby shortening the bearing's lifespan.

Correctly aligned machines reduce the risk of expensive breakdowns and downtime such as:

- Lost production time
- Leaking seals
- Increased vibration levels
- Higher energy consumption
- Bearing failure
- Shaft breakage
- Coupling wear
- Quality problems
- Worse working environment

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**YOUR ENGINEERING, MAINTENANCE, WEAR RESISTANT LINING & CONVEYOR SPECIALIST**