

Laser Alignment



Overview

“Misalignment is the deviation of relative shaft position from collinear axis of rotation when equipment is running at normal operating conditions.”

In the modern world the necessity of alignment is common knowledge. With today’s optimised machinery, alignment is a vital part in the daily maintenance work. Machines need to be on-line continuously with a minimum of interruptions. A machine breakdown causes devastating loss of production. Nearly 50% of all machine breakdowns are caused by misalignment.

“If you require we can set a company alignment standard for you, or work to your existing alignment standard.”

Shaft alignment can be performed using many different tools. The far easiest way, and most accurate, is to use laser beamed alignment systems. We have a team of experienced engineers to use this type of equipment, which ensures every customer receives very accurate and repetitive results.

Fact

POWER - Misalignment has a direct impact on the power consumption. Documented cases have shown savings ranging from 2 to 17%. Our Thermal Imaging Engineers can



detect the amount of heat generated due to misalignment.

EFFECTS ON BEARINGS AND SEALS - The bearings operating life span is directly affected by the forces it is exposed to. The slightest misalignment can generate excessive forces to the 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. Altogether the bearings lifetime is dramatically shortened.

Summary

Whatever the piece of plant equipment, whether it is motor/pump or motor/gearbox, machine rolls or V-belts, our Laser Alignment Services should be used to set a known, good, base-line. It is then possible to keep the piece of plant equipment efficient by using our Vibration Analysis and Thermal Imaging Services regularly.



prevention
is better than
cure