



Alignment Specialists

Survey/Diagnostic Inspection, Alignment & Documentation

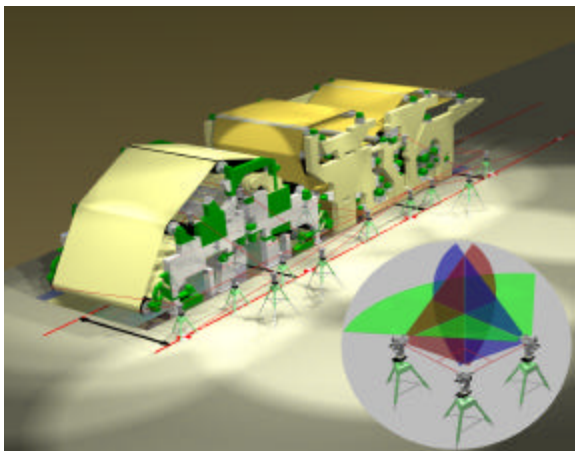
Centerline survey and baseline installation:

OASIS performs a machine centerline survey and baseline installation to accomplish the following:

- Establish the best representation of the machine centerline as it exists today
- Provide an alignment profile or overview of the entire paper machine
- Establish a permanent alignment reference for:
 - ◆ All future machine alignment
 - ◆ Machine rebuilds and installations
 - ◆ Recording machine movement caused by building or machine settlement or shifting induced by the normal thermal cycles of operation

Optical inspections: An OASIS optical inspection is truly diagnostic and is intended to identify misalignment that can be responsible for problems in certain sections of the machine:

- **Web carrying rolls:** web breaks, tracking problems, wrinkles, & baggy edges
- **Drives:** premature coupling wear/ failure, noise, vibration, and poor machine operation
- The need for increased web tension or overcompensation of web guides to mask misalignment effects



BENEFITS

- Improved web tracking & transfer between sections
- Decreased web tension
- Reduced bearing & coupling wear
- Increased machine speed possible
- Reduced vibration
- Less energy consumption
- Optimal inspection instrumentation
- IMMEDIATE PAYBACK!

ASSOCIATED SERVICES

- Project Management
- Service support
- Installations
- Component rebuild & upgrades



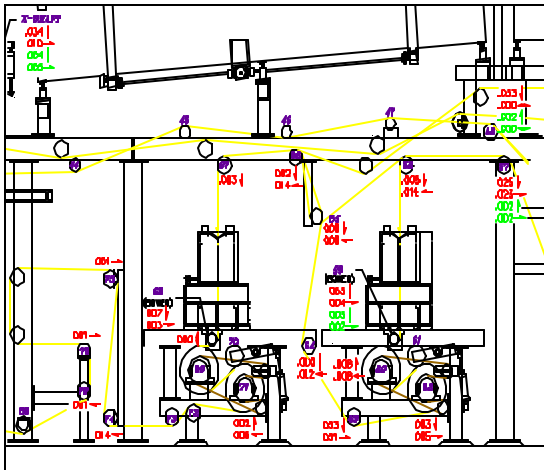
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Documentation: To gain maximum benefit from any alignment inspection or adjustments, a clear, concise record must be generated and maintained. The OASIS alignment report is comprehensive in machine history, alignment documentation and correction recommendations. It includes a review of the machine's history and identifies trends to help keep equipment performing at its best.



Typical Before (red) and After (green) alignment data

Inspection and alignment instrumentation:

OASIS will supply the optimal inspection instruments to complete an inspection in the most efficient manner. OASIS utilizes a variety of instruments to allow the best choice for a job:

Optical instruments: Optical instruments provide strong flexibility and accuracy needed to take readings in the extreme conditions found in many production environments. Optical instruments can be utilized for almost all critical alignment applications.

Laser shaft alignment: Specifically developed for and limited to alignment of drive components. Recommended for most drive alignments.

Laser trackers: Comprised of a laser beam that follows a retro-reflector hand placed at inspection points, trackers use triangulation to gather and electronically store many readings. Laser trackers are recommended in applications that require extensive 3D modeling or dynamics readings. An example of where 3D modeling might be used would be to help measure a complex layout. Dynamic readings are often used in large part placement operations such as aircraft assembly. Trackers require a more controlled environment to operate efficiently.

Realignment support: OASIS teams assist and direct your millwrights in any maintenance, repair or replacement effort requiring precision alignment or location of components.

Turnkey alignment: OASIS can provide manpower and tooling to perform alignment projects up to and including the realignment of an entire machine. This efficient OASIS service frees plant personnel and mechanical resources to attend to other issues during an outage.

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