

Advanced Alignment Training Level I (2 Days Rotalign/Optalign)

1. Shaft Alignment Definition
2. Why do we perform shaft alignment?
 - 2.1. Improve efficiency
 - 2.2. Reduce wear
 - 2.3. Increase uptime-Reliability
3. Shaft alignment methods
 - 3.1. Straight edge
 - 3.2. Dial indicator
 - 3.3. Laser alignment
4. Preparation for alignment
 - 4.1. Necessary tools.
 - 4.2. Safety aspects.
 - 4.3. Determine tolerances
 - 4.4. Determine Targets/Thermal Growth
5. Understanding Alignment
 - 5.1. Alignment terminology
 - 5.2. Visualizing the geometry
 - 5.3. Introduction of Alignment Checklist
 - 5.4. Soft Foot Correction
 - 5.5. Final Alignment
 - 5.6. Correct Tightening Procedure
 - 5.7. Saving the Alignment Job
6. Issues that make alignment challenging.
 - 6.1. Repeatability
 - 6.2. Pipe Strain
 - 6.3. Base issues
 - 6.4. Ambient vibration
 - 6.5. Sunlight
 - 6.6. Soft Foot Nightmares
7. Additional Features
 - 7.1. Thermal Growth and Targets
 - 7.2. Measurement Modes
 - 7.3. Static Feet-Optimal Move
 - 7.4. Types of Couplings



Advanced Alignment Training Level II (2 Days Rotalign)

1. Vertical Alignment
 - 1.1. Flange Mounted
 - 1.1.1. Bolt Patterns
 - 1.1.2. Offset Shafts
 - 1.2. Foot Mounted
2. Machine Trains-Simultaneous
 - 2.1. Optimal Moves
 - 2.2. Move Simulator
 - 2.3. Cooling Towers and Other Long Spacers
3. Live Trend
 - 3.1. Mounting Bracket Options
 - 3.2. Understanding the Measurement Setup
 - 3.3. Real Time Measurement Data
 - 3.4. Plot Setup and Flags
 - 3.5. Determining Alignment Targets from the Results
 - 3.6. Simultaneous Live Trend
4. Cardan Alignment
 - 4.1. Vertical and Horizontal Offsets
 - 4.2. Shaft In/Shaft Out
5. Vibration Acceptance Check
6. Special Applications (Customer Request)

