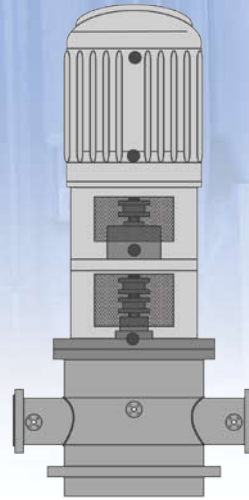


Vertical Motor & Pump



ALTA ADVANTAGES

- Integration with Existing Plant Infrastructure
- Synchronize Process Data with Machine Dynamic Data
- Off-line Analysis without having to Re-capture Data
- Real-time Data Collection
- Advanced Vibration and Transient Analysis
- Intelligent Alarming
- Cybersecure

PROTECTION MEASUREMENTS: Shaft Vibration, Bearing Vibration, Phase, Speed Measurements, Axial Position Protection, Process Variables.

COMMON FAULTS TO DIAGNOSE:

PUMPS: Critical, Structural Resonances, Impeller Eccentricity, Impeller Imbalance, Impeller/Diffuser Clearance (gaps), Recirculation (low flow), Cavitation (low suction head), Oil Whirl, Wear Ring Clearance, Lubrication Loss, etc.

MOTOR: Bearing Faults, Air Gap Variation, Broken Rotor Bars, Eccentric Motor, Stator Flexibility, Off Magnetic Center, Stator Shorts

COMBINED: Mass Imbalance, Misalignment, Shaft Bow, Coupling Lockup, Thermal Variability, Distortion, etc.

ADVANCED CONDITION MONITORING SYSTEM



- Advanced Machine Analysis
- Powerful Transient Data Collection
- Seamlessly Plant Integration
- Built-In Flight Data Recorder

Additional Features:

- Machine Data Collection
- Industrial Chassis
- Plant Interfaces
- Sensor Support

COMPACT PROTECTION SYSTEM



- Real-Time Machinery Protection
- 24/7 Continuous Machinery Monitoring
- Modular and Cost Effective Package
- Inhibit and Trip Multiply Inputs
- Programmable Relay
- 4-20 mA Recorder Outputs