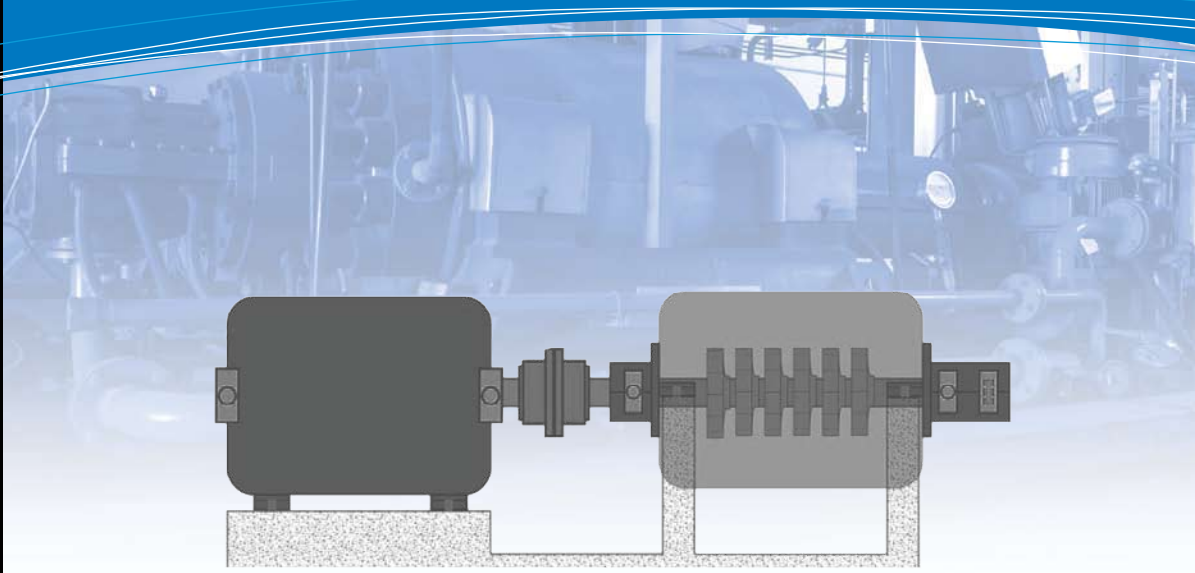


ALTA ADVANTAGES

- 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, Position Measurement, Phase, Speed Measurements, Axial Position Protection, Valve Position, 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.

COMPACT PROTECTION SYSTEM



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

ADVANCED CONDITION MONITORING SYSTEM



- Advanced Machine Analysis
 - Powerful Transient Data Collection
 - Seamlessly Plant Intergration
 - Built-In Flight Data Recorder
- Additional Features:**
- Machine Data Collection
 - Industrial Chassis
 - Plant Interfaces
 - Sensor Support

PROTECTION SYSTEM WITH ADVANCED MONITORING



- API 670 5th Edition Compliant
- Integrates Powerful Machine
- Analysis Modular System for Easy Upgrading and Replacement
- Uses Standard and Common Wiring Connectors
- Support for Multiple Standard Plant Interfaces
- Easy to Install and Maintain

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