

Machinery & Reliability Institute, LLC



We are an organization specialized in the provision of Technical Services, Consulting and Engineering services for the industry, that promotes and provides experiences, guides, practices, techniques, tools, technologies, models and methodologies for Reliability Engineering, Rotating Machinery Engineering and Maintenance for the universe of professionals of engineering and industry worldwide.

SUCURSAL Houston, TEXAS

Scope of Services



MAIN OFFICE

Mobile, ALABAMA

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Services Portfolio

CONDITION MONITORING

- Condition Monitoring Data Analysis
- Basic & Advanced Vibration Analysis
- Lubricant Analysis & Tribology
- •Thermography Analysis. (Infrared Inspection)
- •Ultrasound Analysis (Airborne Inspection)

REMOTE MONITORING

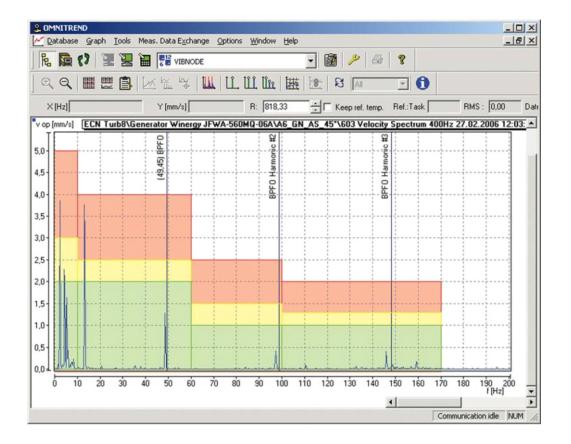
•CBM/PdM architecture development based on Hydraulic Institute and ISO Standards

- Advance Rotating Equipment Diagnostics
- used multiples CBM/NDE Techniques

 Mechanical condition trend forecast and prognostic

ADVANCED STUDIES

Process and operational variables correlation analysis
Failure prediction with Weibull Analysis
PM & PdM Intervals Optimization with Bayesian Theorem





Services Portfolio

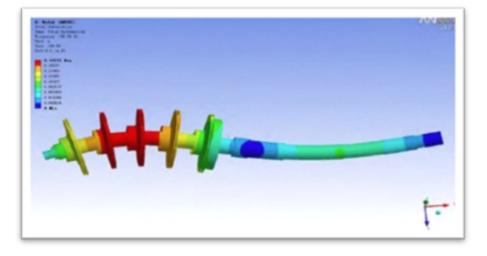
ROTATING EQUIPMENT ENGINEERING

- •Rotating Equipment Selection and Application.
- •Rotating Equipment Field Technical Services
- •Pumping Systems Circuit Simulations.
- •Pumping Systems Performance Analysis
- •Reliability Operational Windows Development
- •Energy Management Levels 1, 2 and 3 Assessment & Audit.



ADVANCED INGINEERING ANALYSIS

- •Theoretical Modal Analysis / Operating Deflection Shape (ODS)
- •Finite Element Analysis (FEA)
- •Rotodynamic Studies: Torsional and Lateral Analysis



Pumps - Gearboxes - Compressors - Blowers



Multiple Channel Vibration Data Collector & Analyzer











Tools

Advance Vibration Analysis

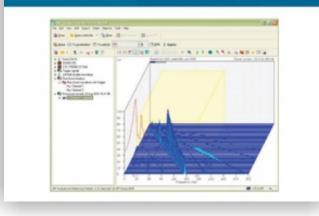
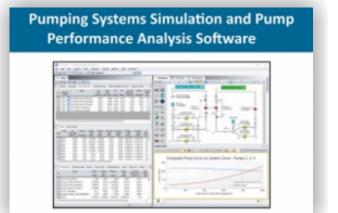


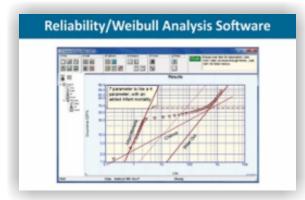
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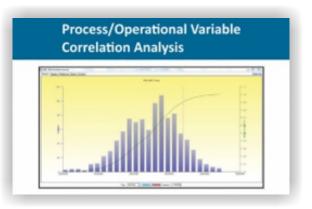
Modal Analysis (ODS)



Root Cause Failure Analysis Software







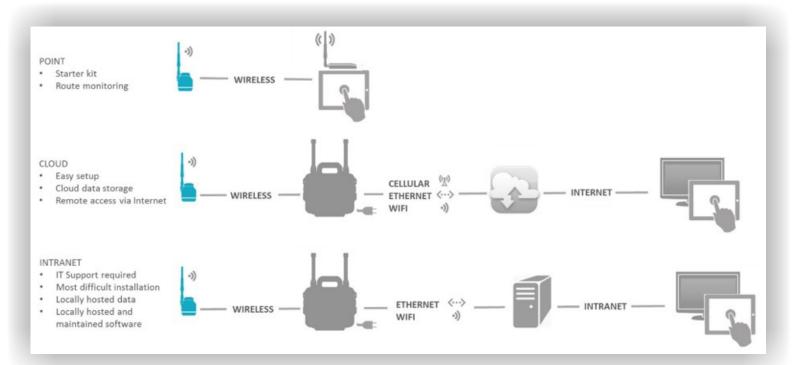
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Wireless Condition Monitoring System Development and Support

Design, Installation, Startup and Continuing Technical Support





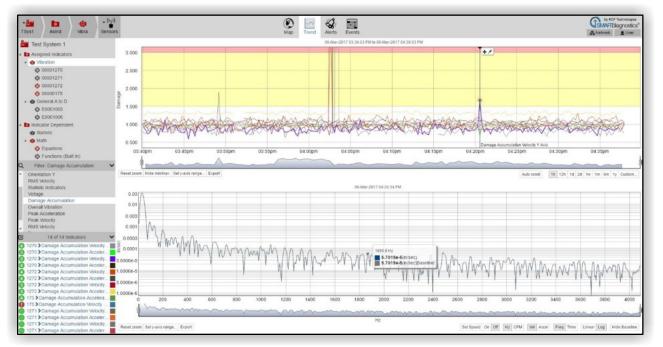
Wireless CBM

Wireless Condition Monitoring System Development and Support

Design, Installation, Startup and Continuing Technical Support



Software



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