EXPERITEC
Emerson Impact Partner

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# Maintenance & Reliability:
# Motion Amplification Services

## Your Equipment is Sick, and You Don't Know Why!!!

Traditional predictive maintenance (PdM) technologies such as vibration monitoring, oil and lubrication analysis, and infrared thermography (IRT) are indispensable pillars of any world-class reliability program. But what do you do when a suspected bearing defect is actually a structural crack in the concrete foundation? Or when wear debris analysis from a misaligned shaft is really caused by thermal expansion twisting a machine's baseplate? Why spend days/weeks chasing a symptom when the root cause can be visualized in minutes, often paying for itself with a single catch?

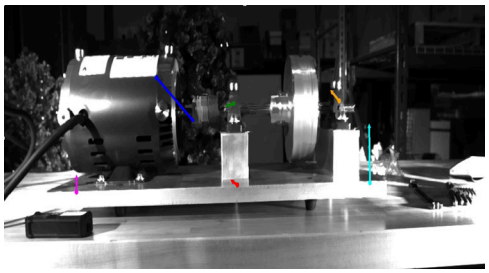
Motion amplification provides a unique visual representation of blind spots often missed in complex issues stemming from component- and system-wide phase relationships unlike any other technology. Complex and invisible vibrations can be instantly transformed into root-cause renderings of larger problems plaguing your assets

APS

**Asset Services**
**Instrumentation**
**Valves**
**Rotating Equipment**
**Reliability**
**Data Solutions**
**Training**

## Let a certified Experitec Reliability expert troubleshoot your most difficult rotating equipment problem!





**5% Production Capacity Is Lost to Unplanned Downtime**

**It Costs 50% More to Repair Failed Assets**

**Half of All Safety Events Occur During Non-Steady States**

**Poor-performing Plants Spend 3x More on Maintenance**

**7 Types of Assets Account For >75% of Maintenance Issues**

## Get Ahead of Unplanned Downtime

### Contact Us to Learn How Our Asset Performance Solutions Can Support Your Facility

**experitec.com/services**

# Asset Performance Solutions

## Asset Services

- Shutdown & Outage Management
- Startup & Commissioning
- Loop Checkouts
- Calibration Programs
- Instrument Troubleshooting
- Valve Repairs
- Thermal Imaging
- Steam & Gas Systems Studies
- Motion Amplification

## Instrumentation Services

- Pressure
- Temperature
- Flow
- Level
- Liquid Analysis
- Density & Viscosity
- Flame & Gas Detection
- Wireless Networks & Sensors
- Device Alerts & Diagnostics

## Valves Services

- Full-Service Valve Repair Facilities
- Certified Pressure & Safety Relief Valve Shop
- Actuation & Isolation Solutions
- Mobile Repair Shops
- Factory-Certified Rebuilds
- Control Valve Monitoring
- Leak Detection Services
- Valve Greasing / Lubrication

## Rotating Equipment

- Certified Maintenance & Reliability Professionals
- Wireless & Online Vibration Monitoring
- Route Based Data Collection Programs
- Oil & Lubrication Analysis
- Alignment & Balancing Services
- Hardware & Software Services
- Motor Analysis (PdMA)

## Vantage Point Data Solutions

- Asset Management Systems
- CMMS Integration
- Plant Historians
- Data Lakes
- Dashboard & Visualization Solutions

## Human Reliability

- Factory Training
- Onsite Classes
- Customized Training Skids
- Process Simulation & Operator Training Systems
- Staff Augmentation
- Mentoring & Coaching

Ask Us How You Can
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Experitec has served the industry for over 100 years, partnering with our customers to gain competitive advantages and unlock the hidden potential in their facilities. By optimizing operator and control performance, improving asset reliability, creating safer places to work, and helping clients reach their environmental and sustainability goals, Experitec is dedicated to achieving positive outcomes for the businesses we serve. Our unique long-term partnerships with Emerson and others enable us to connect customers with innovative technologies, subject matter expertise, and 24/7 lifecycle support and engineering services. As employee owners, the Experitec team is eager to partner with you on your next automation or reliability project in a positive, driven, and collaborative way. We have local offices in St. Louis, MO; Kansas City, MO; Memphis, TN; Calvert City, KY; and Decatur, IL; as well as warehouse and service locations in the surrounding areas.

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24/7

**888-268-6437**
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