



# TIMKEN

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## Condition Monitoring Solutions

In every industry, the goal is the same – maximize uptime, safety and profitability. Any unscheduled downtime must be avoided. Any unsafe condition must be identified. Any repair must be made immediately.

The Timken Company has a broad offering of condition monitoring products and services that includes portable instruments, continuous monitoring devices and online systems. We can help you maximize uptime with the development of cost-effective solutions to achieve maximum output and reliable service. Increasing the useful life and productivity of your machinery directly impacts the bottom line.

When you choose Timken, you gain access to an industry leader with more than 100 years of experience in industrial applications. Every design, production phase and service call is driven by one thing – exceeding the expectations of our customers. You can rely on Timken for products, services, analysis and ongoing technical support to help maximize uptime, reduce maintenance costs and improve productivity. Timken is committed to being your friction management solutions provider.

### StatusCheck™ Wireless Condition Monitoring System

- Intrinsically safe, unique wireless system designed to detect and monitor excessive levels of temperature and vibration
- Customizable software that allows operators to set alarm points per application
- Flexible mounting, spring-loaded temperature probe and two-axis vibration detection
- Ideal for bearings, pumps, fans, gearboxes and motors
- FCC and IC approved
- Simple interpretation (no vibration analysis training required)



### Machine Tester Series: Handheld Condition Monitoring Instrument

- Handheld instrument for periodic machine condition monitoring
- Early detection of bearing damage and marginal lube film conditions
- Immediate evaluation on a green-yellow-red condition scale
- Measures overall vibration to detect imbalance, misalignment and looseness
- Software available to generate reports and trend results



## Timken Reliability Services offers:

- Vibration analysis
- Infrared thermography
- Oil analysis
- Continuous vibration monitoring systems
- Operating deflection shape
- Machine alignment consultations
- Airborne ultrasonic inspections
- Video-scope inspections
- Fan balancing



## Machine Evaluator Series: Advanced Handheld Condition Monitoring Instrument

- Early detection of bearing mechanical damage and marginal lube film conditions
- Function selection via keypad or touch screen
- Immediate evaluation on a green-yellow-red condition scale
- Contact-free measuring point identification tags
- Vibration time wave form with FFT spectrum available
- Advanced analysis techniques with evaluation models
- Upgrade options include single- and two-plane balancing and laser alignment



## CMT: Stand-Alone Continuous Machine Tester

- Stand-alone monitoring device for 24/7 protection of critical machines
- Early detection of bearing damage and marginal-lube-film conditions
- Measures overall vibration to detect imbalance, misalignment and looseness
- Immediate evaluation on a green-yellow-red condition scale
- Signal input of up to two vibration channels and two shock-pulse channels
- Analog (4-20 mA) or digital (MODBUS) outputs available



## The CMM Series: Online Condition Monitoring Modules

- Provide a local readout of bearing condition, or vibration levels
- Results displayed on a green-yellow-red scale
- Condition-controlled relay connections
- Analog signals provided for open architecture communication to PLCs and other CMM systems
- One- and two-channel modules available



## The CMS System: Online Condition Monitoring System

- Modular, software-controlled, online condition monitoring system with automatic data evaluation
- Online detection for up to 3,500 measuring points for bearing damage, lubrication condition, vibration severity, spectrum analysis and other process parameters
- Uses advanced software for generating reports and trending results
- Measuring units are connected in series on a LAN network

Contact your local Timken sales representative to learn more about condition monitoring solutions.



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