

Mi-TEMS is an advanced monitoring solution designed to boost productivity, reduce downtime, and elevate quality across your manufacturing operations. Engineered for high-mix, low-volume environments, Mi-TEMS gives you the power to see problems before they happen—and solve them before they cost you.



Technology Overview

Mi-TEMS is an advanced system designed to improve manufacturing efficiency. It offers offline and online monitoring for key equipment like CNC machines, pogopin testers, and semiconductor testing systems. Using acoustic analysis, vibration analysis, ultrasound, and infrared thermography, Mi-TEMS helps detect tool wear, malfunctions, and equipment failures in real-time.

Focused on predictive maintenance, Mi-TEMS helps prevent problems before they cause downtime, reducing production defects and improving resource management in high-mix, lowvolume manufacturing.

Technology Benefits

- Real-time Monitoring: Continuous condition tracking ensures early detection of potential failures.
- Predictive Maintenance: Reduces unplanned downtime and extends equipment lifespan.
- Multi-Sensor Integration: Combines acoustic, vibration, ultrasound, and infrared data for comprehensive analysis.
- Enhanced Production Quality: Minimises defects and improves product reliability.
- Data-Driven Optimisation: Provides actionable insights for better resource utilisation and workflow efficiency.
- Scheduling: Orchestrating work and workloads to control and optimise the production or manufacturing process, thereby managing machines, people, processes, and materials.
- Customised solutions for OSAT ATE equipment.

Key Features

- High Accuracy ATE Solutions: Uses force, angle, and distance sensor data for high precision engagement.
- Automated Fault Detection: Al-driven analytics identify abnormal tool wear and potential malfunctions.

- Multi-Equipment Compatibility: Supports CNC machines, testers, and other manufacturing tools.
- User-Friendly Dashboard: Intuitive interface for real-time status monitoring and historical data analysis.
- Scalable Architecture: Easily integrates with existing factory systems and IoT platforms.

Applications

- Semiconductor Manufacturing
- **CNC Machining & Tooling**
- **Automotive Industry**
- **Electronics Testing**
- General Industrial Maintenance









