

Deterioration Diagnosis

Prevent Downtime, Ensure Performance

At Yaskawa, we are committed to helping you keep your robotic systems in top shape. Our **Deterioration Diagnosis** service provides a deeper look into critical components, identifying wear and tear before a fault disrupts your operations. Developed by the Yaskawa Japan service team, this advanced service menu ensures your system runs smoothly and efficiently, reducing unplanned downtime.

What is Deterioration Diagnosis?

Deterioration Diagnosis offers enhanced **Preventive Maintenance (PM)** services for your robot. With the help of specialized diagnostic tools, we provide a **detailed inspection** of key components, enabling you to catch potential issues early and maintain the highest levels of productivity.

Key Benefits:



Proactive Maintenance: Diagnose parts that were previously difficult to inspect.



Objective Data: Deterioration status is presented with numerical results for clear insights.



Minimized Downtime: Identify potential failures before they cause operational disruptions.

Protect Your Investment

With our Deterioration Diagnosis, you gain peace of mind knowing your robotic systems are operating at peak performance.

Don't wait for a failure—diagnose today to avoid tomorrow's downtime.

For more details, contact Yaskawa today to schedule your Deterioration Diagnosis!

Tel: **937-847-6200** | Web: **motoman.com**
24/7 Hotline: **937-847-3200**

Our Deterioration Diagnosis Service Includes:

1 Motor Brake Diagnosis

Detects issues like servo tracking failures, collision detection errors, abnormal noise, and vibration.

Cause of degradation: Brake disc wear and accumulated dust.

Procedure: Measure brake release voltage to evaluate disc condition via automatic software.

2 Encoder Diagnosis

Detects problems such as communication errors and defective encoder data.

Cause of degradation: Decreased light output due to LED aging, abnormal vibration patterns.

Procedure: Automatic internal data diagnosis of the encoder via software.

3 Servo Amplifier Diagnosis

Identifies failures linked to over-current alarms, servo tracking, and noise/vibrations.

Procedure: Software analysis of individual amplifier units or entire AMP systems for performance issues.

4 Controller Board Diagnosis

Monitors for control power loss, communication errors, and data loss.

Procedure: Full system check for communication integrity and data flow accuracy.

Why Choose Deterioration Diagnosis?

Comprehensive Coverage

Ensures that key electrical components (Motor, Servo Amplifier, Encoder, Controller) are all thoroughly examined.

Data-Driven Decisions

Accurate numerical diagnostic results provide concrete evidence for maintenance needs.

Enhanced Lifespan

Regular inspections can extend the lifespan of critical parts, preventing costly repairs and replacements.