HITACHI
Inspire the Next

Optimize Your Asset Life Cycle
Hitachi Predictive Maintenance for Oracle

Keep Your Company Moving With Predictive Maintenance

Factory downtime is expensive. If only it were possible to see into the future, to somehow have eyes on each of your assets to measure its health, predict when it needs maintenance, and know ahead of time when it might fail — so you can take care of problems before they grind your line to a halt. Now, with Hitachi Predictive Maintenance for Oracle, you can do just that.

Hitachi Predictive Maintenance for Oracle helps you unleash the full potential of IoT in Oracle environments. Using sensors, image analytics, machine learning and advanced algorithms, this solution provides insights that guide maintenance personnel to take the right actions at the right times. It can help you avoid unexpected failures while keeping maintenance costs in check. It also helps maximize equipment availability and enhance production scheduling to deliver increased value.

If your company is one of the many that has turned to Oracle internet of things (IoT) applications to power your factories, your laydown yards or your distribution centers, then you already know that you've made a great choice. But to get the most value from these solutions, you need to make sure that they continue to provide a return on investment well into the future. Hitachi Predictive Maintenance for Oracle can

deliver substantial cost savings, starting with reduced downtime and going on to deliver downstream process improvements that will drive ongoing financial benefits.

Gain Sustainable, Repeatable Maintenance With Real-Time Insight

With Hitachi Predictive Maintenance for Oracle, you can make the most of your Oracle environment. The solution works seamlessly with your Oracle applications, employing IoT, big data and analytics technologies to give you enterprise-wide visibility and minimize unplanned downtime. With optimized factory floor connectivity, integration of manufacturing and business processes, and advanced analytics, you can transform your data into actionable intelligence.

Hitachi Predictive Maintenance for Oracle allows you to evaluate assets in real time and diagnose problems using monitoring tools like sensors and image analytics so that you can deploy sustainable, repeatable maintenance solutions. By employing IoT techniques such as reliability-centered maintenance, overall equipment effectiveness and advanced analytics, Hitachi Predictive Maintenance for Oracle can not only deliver a rapid return on investment in the short term, it can provide significant benefits that can extend for years to come.

Tightly Integrating Manufacturing and Business

Unlike other offerings, Hitachi Predictive Maintenance for Oracle is designed for seamless interaction between factory floor and business operations across a variety of industries. Its three-pillar foundation employs connectivity, intelligence, and analytics to provide an end-to-end solution that spans your entire organization, from the factory floor to the enterprise network.

Factory floor connectivity based on industrial IoT technology employs sensors to acquire real-time data from machines and share it across the IT environment. This real-time data allows manufacturing intelligence, using Oracle Cloud Platform, Oracle IoT applications, and Oracle Adaptive Intelligence for manufacturing, to tightly integrate manufacturing processes and business operations.

Advanced analytics, including Oracle Adaptive Intelligence and Oracle Autonomous Analytics Cloud services, supported by Hitachi Consulting, transforms manufacturing data into actionable intelligence. Hitachi brings its experience with OT technologies and its data science capabilities (with AI, machine learning and advanced analytics) to Oracle environments to drive measurable and sustainable business outcomes.

Hitachi Predictive Maintenance for Oracle

Challenge

- Manufacturers require maximum uptime and productivity.
- They also seek to improve quality across the organization.
- Unplanned equipment downtime due to irregular maintenance is costly.
- Employee safety and regulatory compliance issues create risk exposure.
- Accurate predictions of material demand, usage and vendor performance are essential for spare parts management.
- Data-driven estimates of planned downtime are needed for maintenance.
- Managers/directors must increase personal productivity for service tasks.

Solution

- By connecting devices with performance systems and analytics, the solution delivers real-time information to identify, monitor and resolve maintenance issues.
- Machine learning models identify equipment that is starting to fail and notify maintenance.
- Improved insight helps identify at-risk assets so that staff can plan accordingly and avoid surprises.
- Accurate maintenance forecasts free employees from reacting to issues and improves productivity.
- Converting unplanned maintenance into planned maintenance improves efficiency, production margins and safety.
- Predictive maintenance extends the life of machines.
- Enhanced visibility leads to a better understanding of component performance and predictability for critical spare parts.

Benefit

Organizations increase productivity, reduce costs, and put strategic, enhanced planning in reach by:

- Increasing asset performance, uptime and longevity.
- Reducing break/fix volume by identifying pending failures or performance changes.
- Moving from reactive to preventative maintenance.
- Lowering cost of emergency maintenance, repair and operations (MRO).
- Reducing capital expenditures (capex) associated with replacing failing equipment.
- Improving forecasting of equipment end-of-life replacement for financial planning.
- Confirming accuracy of planned maintenance schedules.
- Replacing manual entries into Enterprise Assent Management/ Computerized Maintenance Management Software (EAM/CMMS) systems.
- Updating prescriptive maintenance work orders to resolve failures faster.

Contact Hitachi Consulting

Hitachi has deployed sustainable and repeatable predictive maintenance solutions for some of the world's most successful enterprises, and we can do the same for your organization. To learn more about how we can help your organization gain the downstream benefits of predictive maintenance, contact Hitachi Consulting at info@hitachiconsulting.com.

About Hitachi Consulting

Hitachi Consulting is the global solutions and professional services organization within Hitachi Ltd., a global innovation leader in industrial and information technology solutions and an early pioneer of the Internet of Things. Hitachi Consulting is a business integrator for the IoT era and a catalyst for digital transformation. Using our deep domain knowledge, we strategically collaborate with our clients to help them innovate faster, maximize operational efficiency and realize measurable, sustainable business and societal value. As a consulting-led solutions company, we can help you leverage data as a strategic asset to drive competitive differentiation, customer loyalty and growth. To learn more, visit www.hitachiconsulting.com.

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