• Reduce unexpected failures and downtime.
• Prevent suboptimal equipment repairs.
• Optimize spare parts handling and staff productivity.
• Build greater reliability into your operation.
• Reduce maintenance costs.

Solutions for Asset Insights and Maintenance Optimization in Manufacturing

Improve Performance and Free Up Funds To Replace Aging Assets

Machines are the lifeblood of your manufacturing operations. As a manufacturer ourselves, Hitachi knows this well. Asset performance is a key contributor to operational effectiveness, performance and cost. As one of the first savings areas of digital transformation, companies can achieve big gains by leveraging predictive and prescriptive analytics for maintenance. This can fuel further optimization projects and free up precious capital to add new equipment or replace aging and problem prone assets. Hitachi Vantara’s solutions for asset insights enable organizations to achieve the desired balance of risk, cost, performance and reliability of machinery, assets and infrastructure. There are also greater inefficiencies and safety concerns in unscheduled maintenance, due to rushed jobs and inability to adequately plan ahead. These solutions enable a reliability-focused maintenance approach, while maximizing predictable production, at the lowest sustainable maintenance cost. This lets you achieve production and quality targets while observing the risk profile of the business, resulting in increased overall equipment effectiveness.

Predictive Maintenance

Predictive maintenance is a technique to identify risk of failure based on data-driven machine health condition monitoring and schedule optimal maintenance activity at the most cost-effective time. We provide the ability to predict failure, make recommendations regarding what action to take, and coordinate actions with other systems such as computerized maintenance management systems (CMMS) to create maintenance work orders. To do this, data is collected from machines and aggregated with plant operations and enterprise data, where analytics models run to provide notifications and feed dashboards, showing future machine failure predictions. Maintenance activity recommendations are also generated by a machine learning (ML) model. These recommendations can include repair parts, tools and qualified technicians. Optimized maintenance scheduling, powered by data-driven failure predictions, enables reduced maintenance costs without increasing the risk of failure. ML-based recommendations help optimize maintenance activity and reduce the burden to coordinate maintenance work orders.

Intelligent Reliability Centered Maintenance (RCM)

Intelligent RCM is a holistic approach to asset management and maintenance practices. It helps drive maintenance...
excellence by touching all aspects of maintenance, from strategy and planning to prediction, while improving people, process and systems involved in the practice. Reliability is improved by focusing on effectiveness, understanding the right failure modes and consequences, and efficiently executing the right maintenance activities. We design a unique intelligent RCM journey for your business, enabling return on investment and sustainability.

This approach is built in line with the world's best practices for maintenance and drastically improves existing process and systems. Using visualizations such as asset trees and failure mode and effects analysis (FMEA), a focused risk priority number can be assigned. This can align equipment maintenance strategy based on risk and effect on production. The solution provides real-time data capture from assets and intuitive visualization for guidance. By embracing world-class maintenance practices to improve overall function of people, process and systems, it is possible to achieve business goals in a sustainable manner.

The Right tool for the Right Person
Organizations need tools customized for various personnel types involved in maintenance operations. These tools are different for the maintenance technician on the shop floor, the maintenance manager and planner, the remote expert, and the highest-level executive in charge of maintenance operations for the company. They need to rely on asset-specific data science, learned from machine performance. And they need the tools to work seamlessly across various computer maintenance management systems (CMMS), enterprise asset management (EAM), enterprise content management (ECM) and enterprise resource planning (ERP). Hitachi’s solution combines advanced data science and algorithmic modeling to deliver cost savings and increased efficiencies for all users across all asset systems and types.

Learn from our Experience as a Manufacturer and Equipment Provider
Take the next step and collaborate with Hitachi to implement the perfectly optimized asset insights solution for your business. Our data scientists and experts will work with you to understand your business objectives, learn from and illuminate your data, and work towards developing metrics and key performance indicators (KPIs) to enhance your maintenance and/or repair business practices.

Contact Hitachi Vantara at +1.858.225.2095 to talk with one of our consultants and learn how our solutions for asset insights can take your organization to the next level of maintenance optimization.

We Are Hitachi Vantara
We guide our customers from what’s now to what’s next by solving their digital challenges. Working alongside each customer, we apply our unmatched industrial and digital capabilities to their data and applications to benefit both business and society.

Hitachi Vantara
Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact

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