



Become a Digital Leader with Hitachi Smart Manufacturing for Oracle

Team Up with Hitachi and Oracle – and Pull Ahead of Your Competition

Connect Your Shop Floor to Gain a Competitive Edge

Staying competitive in manufacturing today requires more than just capturing data. To remain ahead of the pack, you need to act on your data in ways that maximize its business value and provide tangible benefits on your shop floor. Until you connect your manufacturing processes and machines, your ability to predict productivity-related issues and challenges will continue to fall short, leading to possible unplanned downtime, product quality issues, excessive rework, and high maintenance costs. What's more, you'll be missing out on an opportunity to discover new ways to improve efficiencies, reduce costs and be more profitable across the board.

Manufacturers that adopt new production models driven by IoT, big data, analytics and more are differentiating themselves and moving ahead of their competitors. By connecting all aspects of the manufacturing process – from design, supply and build to shipping and tracking – they gain real-time insights that drive quick decision-making and reduce or eliminate unplanned downtime. The communication and continuous monitoring of machines, people and processes allows them to improve factory production, quality and inventory, realizing significant gains in efficiency and productivity.

With Hitachi Smart Manufacturing for Oracle, you can bring smart manufacturing capabilities to your shop floor in a very short time frame.

Hitachi's century of operational technology (OT) experience teamed up with Oracle IoT Applications such as Production Monitoring, Asset Monitoring, Connected Worker and Fleet Monitoring creates a connected environment based on the three pillars of smart manufacturing – factory floor connectivity, manufacturing intelligence and advanced analytics.

With Hitachi Smart Manufacturing for Oracle, you can better evaluate your manufacturing processes and costs, understand where problems are occurring and identify areas to improve. Hitachi Smart Manufacturing for Oracle uses artificial intelligence (AI) machine learning and augmented reality to bring greater agility to your shop floor, so you can respond faster to new opportunities and make your factory a source of innovation and profit.

Get Connected with Hitachi Smart Manufacturing for Oracle

Hitachi Smart Manufacturing for Oracle brings together information, technology and innovation to give you deeper insight and visibility into your manufacturing operations across your entire organization. With this intelligence you can:

- **Connect your entire company.** Connect disparate parts of the manufacturing process from design to supply, building, shipping, tracking and more.
- **Improve operational effectiveness.** Predict output constraints and

eliminate them to increase productivity and efficiency.

- **Predict and prevent issues.** Use real-time insights and machine learning to predict, address, and avoid quality and maintenance issues.
- **Implement autonomous processes.** Create manufacturing processes that can predict issues and adjust autonomously.
- **Improve nimbleness and agility.** Experience the benefits of a system that can adjust to business needs and demands dynamically.
- **Take advantage of today's big differentiators.** Use AI and machine learning, big data and augmented reality to visualize and model innovative new possibilities.

Three Pillars of Smart Manufacturing

The foundation of Hitachi Smart Manufacturing for Oracle is the seamless interaction between your factory floor operations and your business organizations. Hitachi Smart Manufacturing for Oracle collects data, analyzes it quickly and makes decisions that improve efficiency and streamline operations. The solution creates an intelligent, mobile environment that gives you:

- **Factory floor connectivity.** Based on industrial IoT, your manufacturing environment employs sensors to acquire real-time data from machines and shares it across your IT environment. Oracle IoT applications such as Asset Monitoring, Production



Monitoring, Fleet Monitoring and Connected Worker enable direct connections between shop floor systems and business operations.

- **Manufacturing intelligence.** Leveraging its century of industry experience, Hitachi applies manufacturing intelligence, Oracle Cloud Platform and Oracle Advanced Analytics to give you the visibility you need to run in real time and tightly integrate your manufacturing processes with business operations.
- **Advanced analytics.** Supported by practitioners from Hitachi Consulting using Oracle Autonomous Analytics Cloud services, predictive modeling and reporting capabilities help you transform manufacturing data into effective, actionable intelligence to make better business decisions.

Oracle: Your Digital IoT Core for Manufacturing

To power their factories, many organizations are turning to Oracle IoT applications. With Oracle as the digital core, all areas of a manufacturing organization can be connected. The solution creates a single, consistent source of real-time information for the most important processes, giving you:

- Real-time, centralized data spanning supply, logistics, manufacturing production, inventories and demand.
- Prediction, simulation and analysis, including test scenarios and predictions of consequences.

- Continuous manufacturing resource planning (MRP) with connections to enterprise data from other business areas for better strategic and operational planning.
- The ability to identify and prioritize the most critical material issues, options and consequences.
- Faster execution for a more up-to-date, accurate view of your manufacturing environment.
- Enterprise-wide visibility across supply, production, inventory and demand.

Hitachi Consulting: Helping You Get a Running Start

Hitachi Smart Manufacturing for Oracle gets you off and running quickly and supports you every step of the way. But to propel you across the finish line ahead of the competition, it must be aligned with your specific processes and business imperatives.

No matter where you are in your journey, Hitachi Consulting can provide the expertise and assistance you need for your smart manufacturing initiative. If you're just getting started, we can help you understand how smart manufacturing can improve your manufacturing environment with benefits such as predictive maintenance. We can evaluate your processes and provide recommendations on where to automate, help you determine the best ways to collect and analyze real-time data and then help you put these insights to work.

Hitachi Consulting, the global management consulting and IT services business of Hitachi, Ltd., has been providing expert advice on Oracle for nearly two decades. As an Oracle Cloud Elite Partner, we apply what we've learned as a global manufacturer to our consulting practice to bring a unique perspective to every engagement including Oracle Enterprise Resource Planning, Oracle Human Capital Management, Oracle Customer Experience, Oracle Big Data, Oracle Cloud, Oracle Supply Chain and other Oracle applications and services.

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.