Transform Your Factory Operation with AWS Metrodata Smart Factory Solution

Real time insight. Predictive operations. Better Productivity. Seamless integration

What is Smart Factory?

Smart Factory is a comprehensive system incorporates advanced technologies like IoT, AI, machine learning, and automation to transform traditional manufacturing processes. Built on AWS technology, Smart Factory Solutions leverage tools like **Amazon SageMaker for machine learning, AWS IoT Core & Greengrass for real-time device connectivity, Amazon S3 for data lakes, and QuickSight & Grafana for insights and dashboards.** These technologies help manufacturers gain real-time data, make informed decisions, and enhance operational efficiency, ultimately driving the transformation towards smarter and more agile manufacturing environment

The Smart Factory Solution helps you overcome these issues :

- **Smart Visual Inspection:** AI detects defects instantly using cameras and machine learning models, ensuring high-quality products.

- **Misalignment Alerts:** Predict potential tool issues before they result in downtime, minimizing disruptions to production.

- **Real-Time Quality Monitoring:** Enables the monitoring of key parameters such as pressure, temperature, and vibration to ensure optimal manufacturing conditions.

- **Workflow Automation:** Streamlines manual tasks and improves response speed, enhancing overall operational efficiency.

- **Data Analytics Dashboard:** Provides real-time insights through platforms like Grafana and QuickSight to help manufacturers make informed decisions.

Our Success Story

Smart Factory Innovation & Artificial Intelligence in Improving Production Performance in the Automotive Industry

PT Metrodata Electronics, Tbk has gained the trust of one of the largest automotive industries in Indonesia to implement a smart factory solution using ML Ops Foundation technology & One pilot on Amazon Web Services.
Since 2023, the company has been running a digital transformation using AWS technology for Asset Monitoring, Quality Inspection, and Predictive Maintenance through IoT (Internet of Things) services. This initiative supports KPIs in production, productivity, and quality to achieve sustainable digital transformation.

The Solution Packages

Categories	Features	Ideal for	Estimated Annual Costs
Starter	Visual inspection, alert dashboard	Pilot/Test line	starting from $15.000
Standard	Inspection + predictive maintenance + workflow	Mid-sized factories	starting from $20.000
Enterprise	Full factory automation + ERP integration	Multi-line or multi-site factories	starting from $25.000

How it Works :

- Deploy Sensors & Cameras on selected production lines
- Collect Data & Train ML Models via Amazon SageMaker
- Monitor in Real Time via dashboard
- Receive Automated Alerts & Insights
- Scale Up Easily as your factory evolves

Ready to kick off the journey?

Let's design the smart factory journey for your business

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