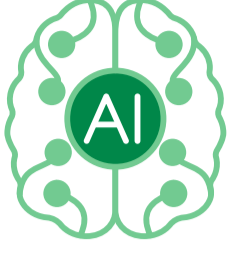# BOSCH

The Guide to Smart Factory Transformation With Bosch + AWS

A Complete Guide to AI-Powered Manufacturing

Software Digital Solutions

A Seismic Shift in the Landscape

95% manufacturers are investing in AI to navigate uncertainty

6% claim their operations are fully digitized.

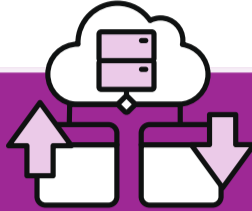**How do manufacturers bridge the gap from traditional operations to intelligent, self-optimizing factories?**

The Answer
Bosch's industrial expertise + AWS cloud power = A proven pathway to smart manufacturing success.

The Bosch + AWS Smart Factory Framework

Faster Deployment, Security & Compliance and Global Support combining Bosch's Industrial Experience with AWS Cloud Leadership

Connect ★★
Device Integration & Data Collection

Analyze
Real-Time Analytics & Pattern Recognition

Predict
Predictive Maintenance & Quality Control

Optimize
Autonomous Operations & Continuous Improvement

★★

Bosch DeviceBridge

Bosch DeviceBridge connects 40+ device types, offers support for multiple protocols and enables edge processing

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Bosch + AWS Solutions in Action

Operational Excellence and Cost Optimization for Market Growth

! Predictive Maintenance
Equipment failures cause costly unplanned downtime
→ Bosch DeviceBridge, AWS IoT Analytics and Amazon SageMaker, AWS IoT Events

! Quality Inspection
Manual inspection is slow, costly, and inconsistent
→ Bosch VisionSmart.AI, AI-powered systems to detect defects at micro levels, AWS IoT Greengrass

! Supply Chain Optimization
Managing suppliers across global operations
→ AI for inventory management, demand forecasting, and packaging optimization, AI-driven decision-making with predictive analytics, IoT-enabled tracking for real-time shipment and inventory monitoring

! Production Automation
Labor shortages and need for flexible manufacturing
→ AI-powered robotics, Deep learning models, Local ML inference with AWS Greengrass

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Spotlight: Bosch Indus 4.0

Bosch Accelerators for the Smart Factory 🚀

A cloud-based solution for plant-wide efficiency and quality

Real-time insights to enable the Smart Factory

Visualize, enhance and automate production processes & components

Modular and pre-configured suite.

Solution Suite for the Smart Factory of the Future

How it works

1. Robust Asset Connectivity Layer
2. Realtime production KPI Visualization
3. Predictive Quality monitoring and alerts
4. Intelligent workforce allocation
5. Comprehensive maintenance management

BOSCH + aws

Bosch + AWS: Your Ideal Partners for Smart Factory Transformation

From Connected Devices to Intelligent Operations

Manufacturing is at an inflection point
Bosch industrial expertise and AWS scalable cloud infra provides the fastest, most reliable path to smart factory transformation.

DeviceBridge is the Missing Link
With DeviceBridge capabilities and AWS IoT Services, you can turn your existing equipment into intelligent, connected assets that drive measurable business value.

Ready to Transform Your Manufacturing Operations?

Contact our Bosch + AWS transformation specialists to begin your smart factory journey today.