

# IntelliPact by Black Box for Manufacturing

## The AI-Driven Executive OS for Enterprise Visibility and Action

### Driving End-to-End Operational Intelligence for Higher Throughput, Quality, and Profitability

Modern manufacturing depends on continuous visibility across plants, suppliers, and digital twins. IntelliPact™ by Black Box integrates MES, ERP, IoT telemetry, and quality control data into one intelligent observability layer that turns every signal into measurable business impact. From predictive maintenance to throughput optimization, the platform connects shop-floor systems to financial outcomes.

The IntelliPact business intelligence engine normalizes data across production lines, logistics, workforce systems, and customer returns, mapping operational metrics like OEE, downtime, and defect rate to executive KPIs such as EBITDA, sustainability, and customer satisfaction. This unified XLA framework empowers leaders to monitor global plant performance in real time and trigger automated improvement workflows.

### From Insight to Action

	Strategic Need	How IntelliPact™ Delivers
01	Increase production uptime	Combines IoT, MES, and maintenance data to predict failures and schedule proactive service windows.
02	Improve quality and reduce waste	Analyzes defect trends across production batches to identify upstream process issues before escalation.
03	Optimize supply chain and logistics	Connects supplier telemetry, transport data, and ERP to visualize bottlenecks impacting delivery or cost.
04	Enhance workforce efficiency	Tracks digital adoption and safety compliance to optimize training and staffing decisions.

## Core Benefits



Predictive maintenance reducing downtime by 20–40%.



Integrated quality and safety dashboards for audit readiness.



Real-time OEE analytics with automated anomaly detection.



Improved EBITDA through efficiency and reduced unplanned outages.



Cross-plant performance benchmarking with automated insights.

## Why Now

Manufacturers today face intensifying global competition, escalating sustainability mandates, and persistent labor challenges. As the industry accelerates toward Industry 4.0, success depends on an intelligent, unified layer that seamlessly connects production, logistics, and workforce ecosystems. IntelliPact delivers that intelligence, bridging operational silos to drive higher throughput, superior quality, and measurable business outcomes across the enterprise

## The Power Behind IntelliPact

Black Box powers IntelliPact with deep manufacturing expertise and advanced observability, enabling enterprises to align every production signal with profitability, resilience, and sustainability goals.

Black Box® is the connect-anything, optimize-everything partner. With over 45 years of experience, we deliver comprehensive solutions & services across data center builds, network architecture, connectivity, modern workplaces, cybersecurity, control rooms, and operations support — all designed to prepare clients for whatever future they envision. Our human-centered expertise and strategic approach enables us to help enterprises across finance, healthcare, transportation, and manufacturing transform technological possibility into operational reality.

