

DataQI Product Suite Description

The Suite

Overview

DataQI is an enterprise AI platform built to help manufacturers thrive in the AI economy. It brings together data from across the business, transforming it into real-time insight, accessible knowledge, and intelligent action. Through its three integrated solutions: Insights, Assistant, and Agent, DataQI helps teams see more, know more, and do more. The result is a connected, data-driven manufacturing environment that continuously learns, optimizes, and scales.

How They Work Together

Imagine a production manager starting the day with DataQI.

- **Insights for Manufacturing** provides a live view of performance across every line, highlighting a drop in OEE on one machine overnight.
- The manager opens **Assistant**, asks why the machine stopped, and gets an instant answer - complete with references from maintenance logs and the technical manual.
- As the manager reviews the shift, **Agent** is already at work in the background: monitoring data for new anomalies, generating a daily performance report, and alerting maintenance when similar conditions arise elsewhere.

Together, Insights, Assistant, and Agent form a closed loop of visibility, understanding, and action - turning disconnected data into continuous improvement.

Insights for Manufacturing

Summary

A manufacturing data and AI platform that connects shop-floor machines, centralizes and structures data, and provides actionable insights via dashboards and AI workflows to improve efficiency, reduce downtime, and accelerate problem resolution.

Core Problems Solved

- **Unplanned downtime** caused by unclear machine alarm root causes.
- **Manual and inefficient troubleshooting** of equipment failures and quality issues.
- **Limited visibility** into throughput, utilization, and OEE across sites or lines.
- **Missed patterns and trends in waste and quality issues.** Manufacturers often see problems in isolation, but lack the data context to identify recurring causes and systemic inefficiencies.
- **Slow decision-making** due to fragmented or unreliable operational data.

Business Outcomes

- **Improved OEE and throughput** by identifying bottlenecks and inefficiencies.
- **Reduced downtime** through faster, AI-assisted root cause resolution.
- **Single source of truth** for performance metrics across factories and sites.
- **Empowered operators** with live dashboards, alarms, and guided actions.
- **Accelerated ROI** from digital manufacturing initiatives by focusing on actionable outcomes.

Common Scenarios / Use Cases

- High unplanned downtime or recurring machine stoppages.
- Lack of cross-site visibility into production performance.
- Heavy reliance on paper-based or manual reporting.
- Difficulty troubleshooting alarms or quality deviations at the operator level.
- Bottlenecks and inefficiencies that limit throughput.

Steering Cues for AI Opportunity Generation

- Recommend this platform when manufacturers face **downtime, efficiency, quality, or visibility challenges** on the shop floor.
- Prioritize where **operators, managers, and executives all need access to the same trusted data**.
- Use this solution for **manufacturing operational challenges**, not just IT or cybersecurity projects.

Value Propositions by Key Personas

CEO / Managing Director

- Gain a unified, real-time view of manufacturing performance across sites.
- Improve profitability and competitiveness through data-driven efficiency.
- Support growth, expansion, and strategic sustainability goals.

CFO / Finance Leadership

- Demonstrate clear ROI by reducing downtime, waste, and inefficiencies.
- Reduce costs associated with unplanned maintenance and poor quality.
- Provide financial transparency by linking operational performance to business outcomes.

COO / Operations Leadership

- Optimize throughput, OEE, and overall factory efficiency.
- Reduce operational risk with early visibility into bottlenecks and downtime causes.
- Scale best practices across multiple sites using consistent data and insights.

CIO / IT Leadership

- Secure, open data architecture that avoids vendor lock-in.
- Seamless integration with existing ERP and other enterprise systems.
- Enable advanced AI/analytics use cases while maintaining compliance and cybersecurity.

VP / Director of Production or Manufacturing

- Real-time visibility into production lines, downtime, and quality trends.
- Empower operators and supervisors with dashboards and actionable insights.
- Prioritize improvement projects based on data, not guesswork.

VP / Director of Sales or Commercial Leadership

- Improve on-time delivery and reduce quality issues that impact customers.
- Enable faster response to market demand with better production planning.
- Strengthen customer satisfaction and trust through reliable, efficient operations.

Assistant

Summary

Part of the DataQI suite, Assistant is an AI-powered knowledge retrieval and document intelligence platform that helps manufacturers unlock the insight hidden in their documentation. It centralizes and structures knowledge from across the business, enabling anyone to instantly access accurate, contextual answers through a simple conversational interface.

Built specifically for manufacturers, Assistant handles complex technical documentation and diagrams with ease. It connects to a variety of structured and unstructured data sources, providing a single, secure location for knowledge discovery and document generation.

Core Problems Solved

- **Information locked in documents and people's heads.** Critical know-how is often trapped in manuals, file shares, or with individual experts.
- **Slow, manual knowledge retrieval.** Engineers and operators spend valuable time searching for technical information, maintenance steps, or compliance details.
- **Fragmented access to knowledge.** Different departments work from disconnected systems, making it difficult to share and reuse information.
- **Delays and risk from subject-matter dependency.** Businesses rely on a few experts for answers, creating bottlenecks and continuity risks.
- **Inefficiencies in documentation creation.** Teams lose hours re-writing content that already exists elsewhere in the business.

Business Outcomes

- **Reduced downtime and waste** by giving operators and engineers instant access to the right information.
- **Lower reliance on key experts** and reduced risk from knowledge loss.
- **Faster decision-making** with quick, accurate answers drawn from verified sources.
- **Single source of truth** for technical and operational knowledge across departments.

- **Accelerated document creation** for tenders, reports, and procedures through AI-assisted drafting.
- **Improved collaboration** by connecting shop-floor teams and support functions through shared, trusted knowledge.

Common Scenarios/Use Cases

- Searching maintenance or safety procedures during production downtime.
- Retrieving equipment manuals, quality documentation, or compliance records.
- Drafting tender or technical documents based on existing company templates.
- Summarizing project history, lessons learned, or supplier information.
- Training new employees using live company data and historical records.

Steering Cues for AI Opportunity Generation

- Recommend this platform when manufacturers face knowledge fragmentation or slow access to critical information.
- Prioritize where cross-department collaboration is essential and subject-matter expertise is limited or stretched.
- Use this solution for document-intensive operational challenges, not as a general IT or chatbot project.

Value Propositions by Key Personas

CEO / Managing Director

- Unlock the full value of company knowledge to improve agility and competitiveness.
- Reduce operational waste by enabling faster, more informed decisions.
- Strengthen business resilience by retaining institutional expertise.

CFO / Finance Leadership

- Reduce the hidden costs of inefficiency, downtime, and duplicated work.
- Improve ROI on existing data assets by turning documents into usable knowledge.
- Quantify productivity gains from faster information access.

COO / Operations Leadership

- Shorten time-to-resolution for technical and process issues.
- Reduce operational risk by ensuring every site works from the same trusted knowledge.
- Scale best practices across teams and sites through standardized access.

CIO / IT Leadership

- Secure, compliant architecture with integration to structured and unstructured data sources.
- Avoid data silos and vendor lock-in through open, flexible design.
- Enable advanced AI applications with transparent citations and source tracking.

VP / Director of Production or Manufacturing

- Provide engineers and operators with real-time access to procedures and manuals.
- Eliminate time lost to searching or waiting for answers from subject-matter experts.
- Improve consistency in operations through guided, AI-powered knowledge delivery.

VP / Director of Sales or Commercial Leadership

- Accelerate tender and proposal creation with AI-generated drafts from existing data.
- Ensure customer commitments are based on accurate, verified technical information.
- Improve responsiveness and communication across commercial and technical teams.

Agent

Summary

Part of the DataQI suite, Agent is the automation and action layer that brings AI-driven workflows and autonomy to manufacturing operations. Where Insights helps manufacturers see more and Assistant helps them know more, Agent enables them to do more.

Agent combines logic, analytics, and natural language understanding to automate monitoring, decision-making, and reporting across the shop floor and supporting functions. It connects seamlessly with both Insights and Assistant, acting as an intelligent co-worker that continuously observes, analyses, and acts on manufacturing data.

Core Problems Solved

- **Manual monitoring of production data.** Operators and managers spend hours watching dashboards and reports for anomalies.
- **Slow response to issues.** Problems such as drops in availability or quality deviations are often detected late, after impact has already occurred.
- **Fragmented automation.** Existing systems may automate single tasks, but not the end-to-end workflows that span data, knowledge, and decision logic.
- **Repetitive, low-value reporting and analysis tasks.** Teams lose time generating insights or KPIs that could be produced automatically.
- **Disconnected operational processes.** Cross-functional tasks such as lead time estimation or supplier checks require manual coordination and data gathering.

Business Outcomes

- **Reduced downtime** through real-time detection and AI-driven response to anomalies.
- **Faster decision-making** by automating complex, multi-step processes.
- **Improved efficiency** by removing manual monitoring and report generation.
- **Consistent execution of best practices** through standardized logic and automation.
- **Greater operational transparency** by connecting data, knowledge, and action in a single platform.

Common Scenarios / Use Cases

Autonomous Agents

- Continuously monitor machine availability and alert when OEE drops below defined thresholds.
- Generate and distribute daily production performance reports automatically.
- Detect anomalies in quality or cycle times and notify maintenance teams.
- Track quality metrics in real time and flag deviations from process control limits.

Workflow Agents

- Use alarm codes detected on machines to cross-reference manuals and suggest corrective actions.
- Combine data from Insights and Assistant to calculate expected lead times for parts, checking stock, supplier data, and production capacity.
- Automate routine approval or escalation workflows, such as maintenance scheduling or supplier checks.
- Coordinate data-driven planning tasks by pulling live information from ERP or MES systems.

Steering Cues for AI Opportunity Generation

- Recommend this platform when manufacturers face repetitive monitoring, reporting, or analysis workloads that could be automated.
- Prioritize where multiple systems or data sources must be connected for decision-making.
- Use this solution for manufacturing operational automation, not generic IT scripting or robotic process automation projects.

Value Propositions by Key Personas

CEO / Managing Director

- Unlock the next level of productivity through intelligent automation.
- Improve responsiveness and reduce operational risk with AI-driven workflows.
- Enable scalable, data-informed operations that run continuously and consistently.

CFO / Finance Leadership

- Reduce hidden costs associated with manual monitoring and rework.
- Demonstrate clear ROI from digital initiatives through measurable efficiency gains.
- Strengthen financial predictability with more consistent operational execution.

COO / Operations Leadership

- Enhance throughput and reliability with always-on performance monitoring.
- Free operations teams to focus on improvement rather than detection and data entry.
- Scale best practices automatically across sites through shared automation logic.

CIO / IT Leadership

- Deploy secure, configurable AI workflows without vendor lock-in.
- Integrate automation with ERP, MES, and other enterprise systems.
- Govern and track AI activity through a centralized DataQI environment.

VP / Director of Production or Manufacturing

- Automatically detect issues before they impact production.
- Eliminate manual report generation and routine data checks.
- Improve line efficiency and response time with autonomous agents.

VP / Director of Sales or Commercial Leadership

- Use automated workflows to generate accurate lead-time estimates and production forecasts.
- Improve customer responsiveness through faster, data-backed communication.
- Strengthen alignment between sales, planning, and production through connected automation.