Capgemini

DATA-DRIVEN QUALITY
VISUAL INSPECTION

Superior quality outcomes and issue resolution in manufacturing operations

Quality is everything for manufacturing companies. Poor data accuracy and organization often leads to bad decisions and lost opportunities. And in this competitive economy, the margin of error is increasingly smaller, as one wrong decision can trigger a domino effect that can strain a company's operations on a dramatic scale.

That means industry leaders must prioritize the clever use of data and the importance of quality. But while they often have talent with the ability to analyze and interpret data, they commonly lack the solutions needed for efficient inspection in a complex manufacturing environment.

Overcoming challenges in quality inspection

Human inspection is inherently limited, as it cannot always detect inconsistencies and faults. Real-time visibility is essential to identify issues quickly, preserve quality, and prevent delays that can impair production. And corrective actions should not depend on manual interventions, as they can be time consuming and error prone.

Companies with a pool of expert analysts will only have a competitive market advantage if they are equipped with the tools they need to leverage their expertise. With Data-Driven Quality (DDQ) Visual Inspection, organizations can employ an advanced inspection system to detect and solve issues in near real-time.

Drive superior outcomes for greater business value

Capgemini understands that better data leads to smarter decisions. This is why DDQ Visual Inspection provides a global view of quality data with a focus on accuracy, agility, and convenience, enabling data scientists and analysts to draw effective conclusions.

The benefits of this solution include:

- Maximizing defect detection in inspection and assembly procedures
- Reducing manufacturing and assembly-related quality issues
- Detecting and solving quality issues in real-time with streamlined data collection
- Improving cycle time through early defect detection
- Fostering a culture of continuous improvement through automation.

DDQ Visual Inspection is built on IBM Maximo Visual Inspection and Microsoft Azure IoT technologies. With Maximo's Visual Inspection AI image analysis and Microsoft's data analytic capabilities, organizations can use these tools to modernize and automate data-quality monitoring and analytics and take a proactive approach to common challenges facing inspections and quality improvement. All this combines to form an end-to-end solution for better understanding of data and root-cause issues, determining corrective actions, and ultimately manufacturing the products consumers want.

Capgemini has over two decades of experience working with IBM and Microsoft, and a team of IBM and Microsoft Certified Professionals plus Azure-certified Architects has helped us achieve the status of IBM Maximo Visual Inspection and Microsoft Azure Expert Managed Services Provider. This enables us to analyze your existing framework and devise a data-driven quality solution tailored for your business requirements.

We can leverage our solution to help your company identify and solve issues quickly, prevent defects, and achieve beneficial quality outcomes. Together, we can boost your manufacturing efficiency and unlock more opportunities to drive tangible value for your business.

About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of 290,000 team members in nearly 50 countries. With its strong 50 year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fuelled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2020 global revenues of €16 billion.

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