

Statistical Process Control Automation for Automotive Tier-1 Manufacturer



A global manufacturer needed automated Statistical Process Control (SPC) to ensure consistent quality across sites. ITC Infotech deployed an advanced SPC and Quality Inspection solution across 20+ plants worldwide, enabling real-time data capture, custom rule creation, and multilingual support. The solution improved quality prediction, asset availability, and accelerated corrective actions.

50% Reduction in deployment time

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.



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CHALLENGES

- Client sought automation of statistical process control for consistent manufacturing quality across multiple locations
- Lack of real-time data capture from factory assets and machines
- Absence of integration with other shop floor applications
- Inability to integrate with multiple protocols within the shop floor
- Need for enhancing quality prediction and asset availability

SERVICES

- Implemented and deployed an advanced SPC solution across 20+ manufacturing sites in Asia, Europe, and North America
- Automated Statistical Process Control System and Quality Inspection System for global use by operators and quality personnel across multiple sites
- Improved user experience with application support in 11 languages
- Custom rule creation and dynamic, continuous data acquisition from shop floor systems
- Expedited response for corrective measures in response to quality breaches

BENEFITS

- Achieved a 6% to 8% reduction in scrap
- Improved operational efficiency by 12%
- Reduced deployment time by 50% through automated testing