

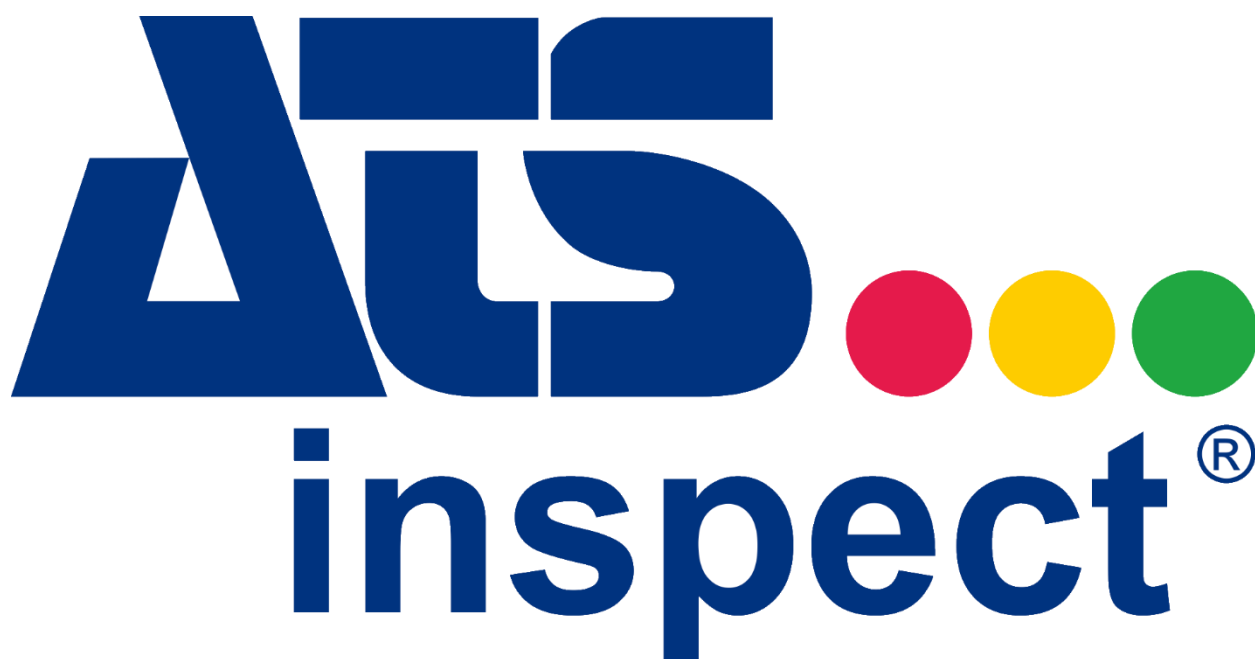


ATS Global B.V.

ATS Inspect

Case Study

Toyota Australia



Toyota Achieves Top Award and Makes Real Savings Using ATS Inspect

Toyota Australia made substantial savings and won the 2009 Manufacturer of the Year Award since it incorporated ATS Inspect into its manufacturing systems.

Customer Requirements

The Toyota Quality Division involves vehicle inspection cells, including drum test, wheel alignment, shower and Customer Satisfaction.

Toyota's objectives were to record and report every single defect, in real time, and alert Quality Managers when serious issues arise by email and SMS.



A high-quality brand requires attention to detail

Other key goals included a reduction in the number of defects and an improvement in Straight Through Ratio (Vehicles without defects). The data collection system also needed to remove paper where possible and provide KPI reporting to the plant floor.

Fulfilling Requirements

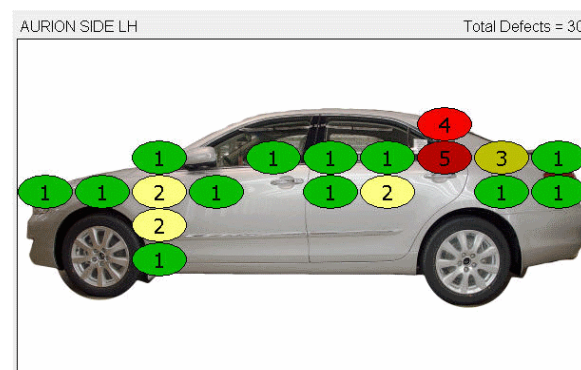
The ATS Inspect system works as follows. When a vehicle enters the inspection cell, the operator scans the barcode VIN (Vehicle Identifier Number). This vehicle then appears on the system. The Quality operator inspects the vehicle and records any defects found in ATS Inspect using a touch screen. Any vehicle with defects that cannot be repaired in the Inspection Station is moved to the Hanedashi area (repair area).



When the vehicle enters the repair cell, an operator scans the barcode VIN again. ATS Inspect then displays a list of all defects recorded for that vehicle. When rectified, the operator uses ATS Inspect to record that the defects have been repaired.

Real Time Reporting

A key benefit of ATS Inspect is its ability to feedback information to operators and management alike in real time. The ATS Inspect database structure allows for reporting in any form required. This means that management can review the defect trends and prioritize resources accordingly while the operators can drill-down into the information to see exactly where problems are occurring.



Problem areas can be identified quickly

Reported KPI's include: Straight Through Ratio (STR) per inspection cell, average number of defects caused by manufacturing area and the Top 5 defects recorded, providing the defect, part, location, quantity and responsible area.

A large wall projector in the assembly control room provides real time feedback by utilizing custom-made ATS Inspect reports. This allows the production team to react immediately to any rising issues or trends.



Wall projectors give clear information to the floor

Award Winning Results

The Toyota Motor Company Australia won the 2009 Manufacturer of the Year Award at their manufacturing plant in Australia as a direct result of using ATS Inspect for one and a half years.

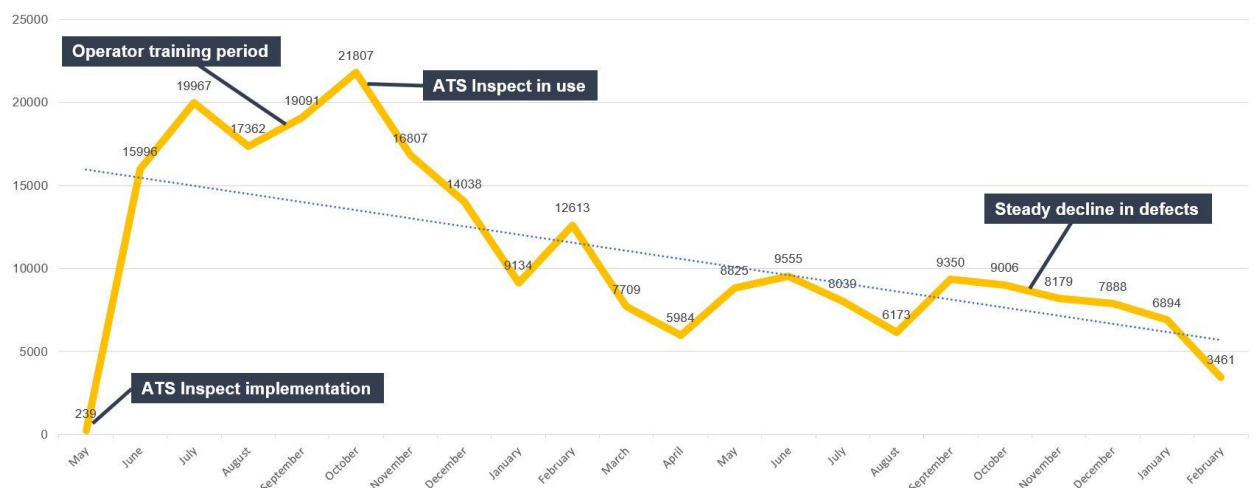
Increasing Quality and Savings

Using ATS Inspect, Toyota has achieved the following:

- ▶ A continuing reduction in the number of average defects per month from $\pm 20,000$ to $\pm 5,000$, and dropping
- ▶ Removed all paper in the Quality Control Division
- ▶ Reduced the number of resources involved with quality data gathering and reporting (retrained and moved in organisation)
- ▶ Real time feedback on issues

Results You Can See

The graph below shows the number of defects found over time after implementing ATS Inspect at Toyota Australia. The first major change was that they were able to identify, record and collate many more defects than they had previously. Using the analysis tools within ATS Inspect they were then able to identify and address the root causes which lead to a dramatic fall in the number of defects.



ATS is an **Independent Solution Provider**, with over 30 years' experience in the manufacturing systems arena and a wealth of experience undertaking Continuous Improvement initiatives and Manufacturing IT solution design, deployments and 24/7 support assignments.

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