

ATS inspect[®]

Visual Quality

Defect and Rework Tracking Solution



Aerospace
& Defence



Automotive



Metals
& Mining



Energy &
Utilities



Electronics



Food &
Beverage



Consumer
Goods



Industrial



Oil & Gas



Chemicals



Life
Sciences



Forest
Products



Rubber



Semi-
conductors



Logistics &
Transportation

- ▶ Significantly reduces scrap and rework cost
- ▶ Image driven inspection
- ▶ Web based analysis and reporting
- ▶ Eliminates paper checklists
- ▶ Real-time attribute data collection
- ▶ Easy-to-use operator interface
- ▶ Configurable for many different applications
- ▶ Easily integrates with other systems
- ▶ At Line Statistical Process Control

Because Rework is a Big Thing

Manufacturers lose significant sums of money each year on defect-driven warranty claims – more than \$25 billion in the U.S. alone. Time-to-market pressures and fragmented supply chains add angst to the already complex process of producing cars, jets, artificial body parts or any number of discrete manufactured products.

Waste at this level eats away greedily at profits and plunges companies into the red

Grand scale intricate processes demand a formidable quality plan equal to the challenge. Getting rework and recalls under control requires early detection and correction of quality problems, and a pervasive multi-pronged approach - one that harnesses hard-hitting technologies that are automated, integrated and effective.

The Defect and Rework Tracking Solution

ATS' Defect and Rework Tracking Solution rapidly flushes out and contains defects. Time to react and correct is greatly reduced. Resource utilization becomes more efficient. Rework costs come down and profits go up. Prototype schedules become focused and shortened, significantly accelerating product launch cycles and time to market.

At the heart of the solution is the ► **ATS Inspect** software. The software leverages powerful visual inspection capabilities and

dynamic data collection, costing, event notification and real time reporting modules.

► **ATS Inspect** eliminates recalls by flagging defects in real-time and tracking the machines, components, stations, shifts, operators and processes involved in producing them – before the product is shipped.

Picture This

The image-driven inspection feature uses and integrates digital camera images and CAD files as vector images directly without loss of detail, even for very large objects.

Defects are entered on fixed or portable systems with touch screen technology straight onto the images. The system records the x and y coordinates where the defect has been entered to ensure efficient and easy data tracking and reporting.

Images of the concerned defect can also be integrated through standard digital camera technology. Once they are associated with a defect or repair, images become part of the unit history and are available for review. Multiple images may be associated with a single defect or repair.



Error-Proof Data Collection

Capturing accurate readings and setting data up efficiently in a usable format is a critical first step that enables the pursuit of quality objectives from a solid foundation. Building on the strengths of ► **ATS Inspect's** visualization capabilities are the data

collection capabilities. Besides using images, this includes computerized checklists that automate visual inspection, and incorporate documentation of issues and observations. Users can insert questions of different types, for example yes/no, multiple choice or "enter a value" prompts. The checklist questions can be categorized to organize data collection and reporting following your specific workflows. Operators genuinely welcome the solution because of its flexibility and ease of use, creating tremendous plant floor acceptance.

The ATS Defect and Rework Tracking Solution standardizes processes, integrating visual inspection with rework and auditing tasks, and steering action items through internal buy-off procedures.

Be Clear About Costs

Organize and communicate the cost of defects and rework. For any given part, location, defect, repair type and/or operator, the software can automatically track and calculate the replacement costs, material and other supply costs, labor costs and time to repair.

You can combine characteristics to develop reports suited to your specific needs. Calculate the complete repair cost of a finished assembly or determine how much repair related labor and material costs are tied up on the plant floor at any given time. When was the last time you got this information in real time?

Take Full Advantage of Your Intelligence

Distributing securely captured and easily understandable data and processing muscle to the parts of your operation that can best exploit them is a very powerful thing. Integrating the Defect and Rework Tracking Solution with ERP and Production Planning Systems enables straightforward inspection of multiple product production lines.

The software interoperates with industry standard databases to make full use of a centralized data platform. It supports common communication interfaces and protocols, provides import and export utilities to common systems and enables integration of a very broad spectrum of end of line test systems.

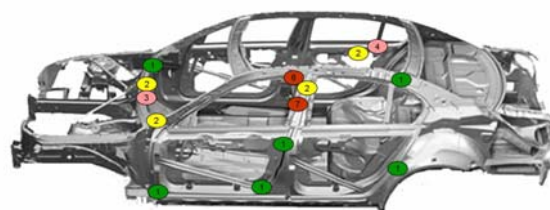
This pervasive focus on integration takes maximum advantage of your current investments and provides automated companywide cross checks that add thrust to your efficiency objectives and beat back expenses. Effect secure, purposeful data dissemination to all the places you need it.

Scrap and rework cost savings combined with efficiency gains translate into substantial money returns and, of course, a higher quality product

For example, integrate ► **ATS Inspect** with Supply Chain Management and Incoming Inspection functions. It can now trace defects to specific suppliers. The stored contact information can be used by the notification feature which creates alerts through e-mail, cell phones and pagers based on quality thresholds that you define.

Real Time Reporting

As with the Event Notification feature, ► **ATS Inspect** reports can be created to view data and to communicate.



One visual is worth thousands when it comes to speed and accuracy of data collection and defect management.



Through a web portal users can choose from any number of standardized reports or configure reports according to their own criteria preferences – defect type, date, time, serial number, production area, operator, repair status, severity, etc. Interactive graphical reports allow you to easily find and analyze the information to manage inspection and continuous improvement processes.

► **ATS Inspect** has built-in powerful communication functionality, empowering the flexible proliferation of information and reports. You can also give your office or plant floor real time feedback using the Video Wall feature. It projects multiple part views simultaneously showing defects as they are found, covering an entire production line or product assembly at a glance.

About ATS

ATS is an *Independent Solution Provider*, with over 20 years experience and a wealth of experience undertaking Continuous Improvement initiatives and Manufacturing IT solution design, deployments and 24/7 support assignments.