

# ATS inspect<sup>®</sup>

Visual Quality

## Case Study Honeywell



# ATS Inspect Enhances the Quality of Honeywell Jet Engines

*Manufacturing processes don't come much more complex than those involved in the creation of jet engines. With countless interacting components come countless potential quality issues that need to be monitored and controlled. This is where ATS Inspect came into play at Honeywell.*

## Fulfilling Requirements

Alenia Aermacchi, an Italian company, is currently manufacturing fighter jets for the Taiwanese government. Honeywell has been selected to manufacture the engines for the test aircraft in Taiwan in partnership with AIDC (Aerospace Industrial Development Corporation).

ATS Inspect is being used by the engineers at AIDC to check for cosmetic defects on the Honeywell engines before they are released to the customer. This involves checking for potential concerns such as damaged or incorrectly oriented components, incorrectly placed clamps, adequate spacing around wiring looms and so on.

## A New Way of Working

The engineers previously used a paper system to log all their inspection activities. However, this can lead to errors when the engineer fills in several results at the same time.



**Honeywell is manufacturing jet engines for Alenia Aermacchi**

With ATS Inspect each inspection activity is time-stamped, so the inspector cannot fill out all of the information at once. This means that the inspection is carried out in a very controlled manner.

A paper record also meant that the information had to be recorded a second time into a database so that analysis could be carried out.

With ATS Inspect the information is instantly stored and analysis is available in real-time. There is also no longer any worry about paper records being misplaced.



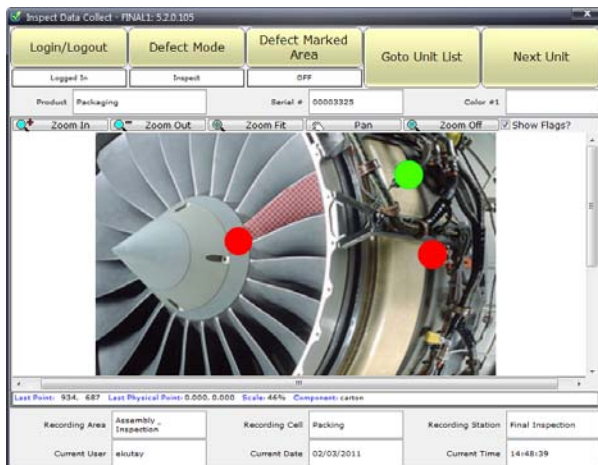
**The portable checklist in action**

## How is it Being Used?

The cosmetic inspection is the last stage of the manufacturing process for the engine. The inspection is presented to the engineer in the form of a text only checklist. The engineer is then guided through each verification step in the inspection process.

Each step may be as quick as checking for the presence of a component or as long as performing a functional check described in a separate referenced document. Inspect gives the flexibility to have both approaches in the same standardized inspection.

When the engineer selects a fault they can then indicate the location of the fault on a graphical representation of the engine. This representation can later be reviewed in a number of ways using ATS Inspect's Reporting module.



Concerns are easily recorded using ATS Inspect

## The Benefits

The engineers at Honeywell are now enjoying the following benefits:

- ▶ Reduction in the number of non-conformances.
- ▶ Removed all paper in the Quality Control Division as all Inspect instructions are created electronically using ATS Inspect Checklist feature.
- ▶ Reduction in resources required for quality data gathering and reporting at final inspection.
- ▶ Real time feedback on issues.



ATS is an **Independent Solution Provider**, with over 25 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.

[www.ats-global.com](http://www.ats-global.com)