

# ATS inspect<sup>®</sup>

Visual Quality

## Attribute Data Collection : Article 2

### Reporting and Analyzing Visual Defect Data



## Accessing Visual Data

The Inspect system comes with over 70 reports in ► **Classic Reporting** and ► **Advanced Reporting Services** that analyze and display system information and can be accessed through a standard internet browser. They enable users to view real-time quality data, including summaries, unit histories, pareto charts and graphs. Each report has multiple filters that allow users to set criteria to display any data history for analysis.

Inspect reports can analyze data in great depth and address the interests of all levels of management. Most reports give the user the ability to drill down to the very lowest levels of information when required.

For example, a user viewing the *Top Ten Report* of defects can drill down to a particular defect on a particular production unit included in the summary information, as well as view information at all intermediate levels of the query.

**The Need:** "Without a centralized inspection database it takes too long to collect, summarize and analyze inspection information."

**The Inspect Solution:** "We are using a single database and all reports are available at the touch of a button from any computer with an internet browser."

## Exporting Data

Inspect allows you to export the reports in many different formats including PDF, Excel and XML. Also, the Inspect database is fully ODBC and OLE DB compliant, which enables users to access Inspect data with any application that can connect to and query such databases.

## Integration with Other Systems

The Inspect system is designed to integrate with ERP and MRP applications and factory automation and test systems. Using its standard communication and XML communication services, Inspect can pull information, such as unit build data, and part and supplier information, from financial management systems and similar sources. The system is also an OPC server and client, which enables it to send data to, and accept, react to and store data from a variety of sources, including PLCs and electronic controls and test stations.

## Instant Notification

The Inspect system can instantly inform interested parties of the current state of quality on and off site through a variety of electronic media and displays, including e-mail, cell phones and PDAs. The system can process and display current information on electronic display boards and instantly alarm personnel of any number of configurable events.

This enables users to elevate awareness of problems and remedy them quickly, before they create significant and costly production issues.

**The Need:** "Paper-based inspections don't allow us or our suppliers to fix problems fast enough, resulting in high re-work costs."

**The Inspect Solution:** "Operators and Quality Managers can send e-mails and text messages to the materials team for immediate action."

## Cost of Repairs

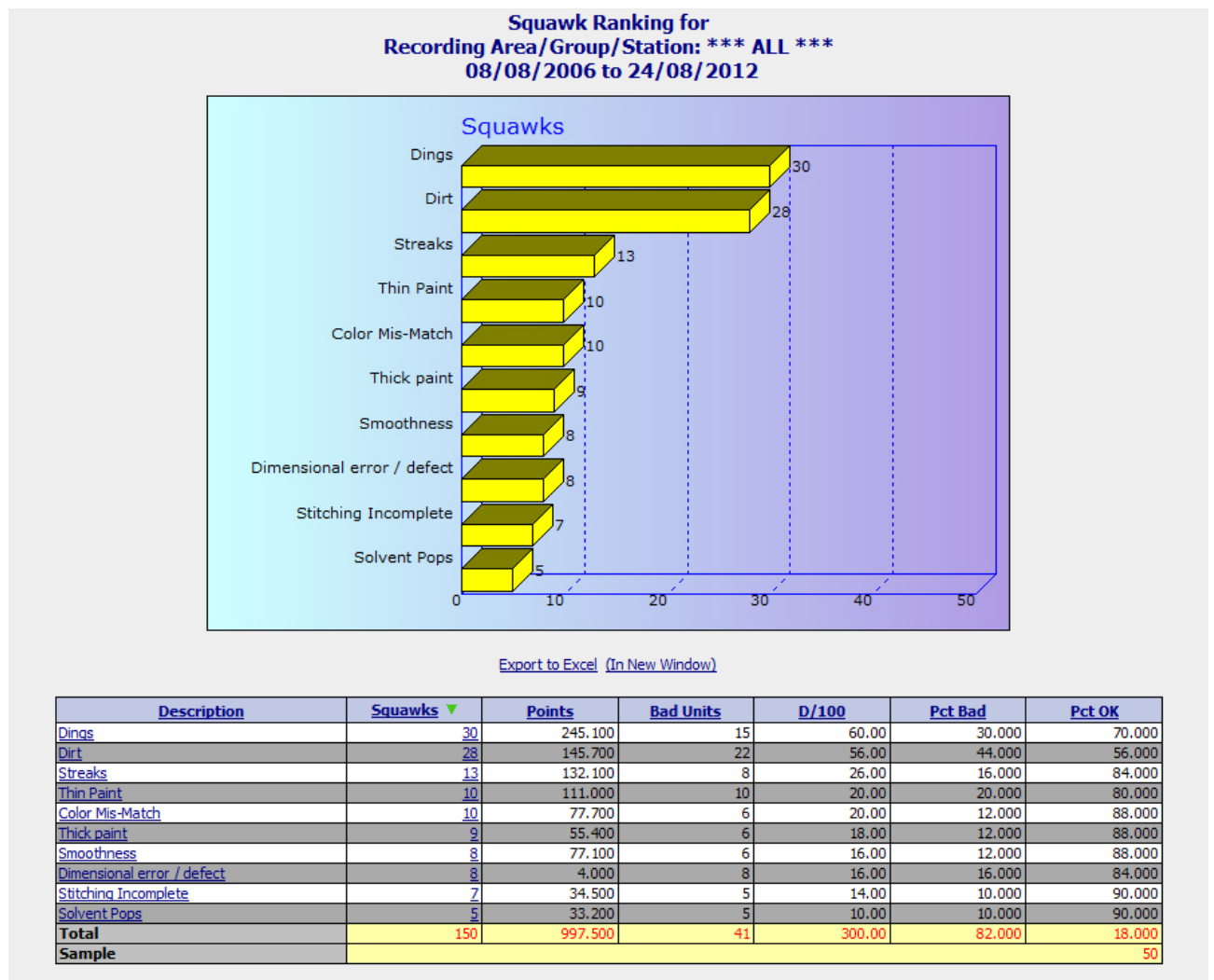
ATS Inspect Costing allows you to see the cost of quality. You can calculate the repair cost of each product as well as how much labor and material cost is tied up on the plant floor at any given time.

For any given part, location, defect or type of repair, the Costing application can help generate reports showing:

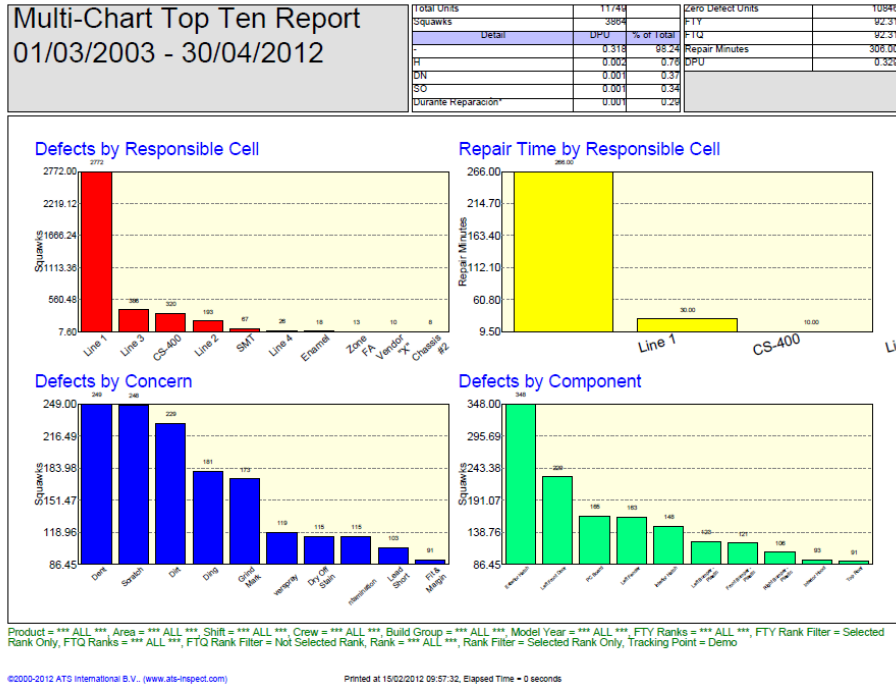
- Time to repair
- Supply costs
- Labor costs

## Example Reports: Classic Reporting

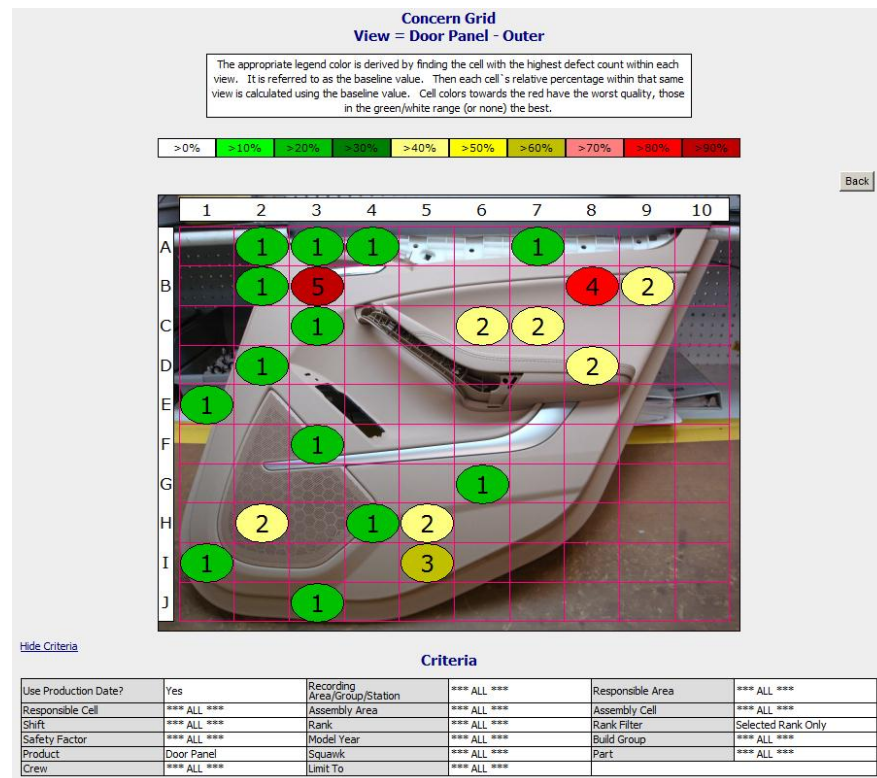
### Concern Ranking



### Top Ten Defects



### Concern Grid

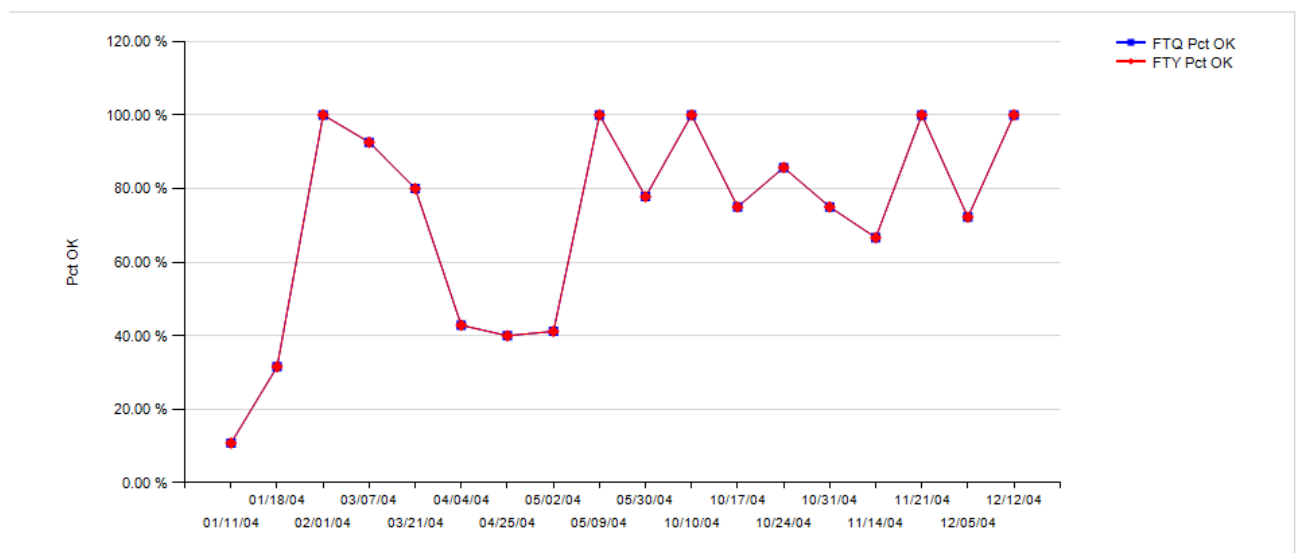


## Example Reports: Advanced Reporting Services

### Checklist Summary

Category / Question / Type	Correct Answer		Answered		Wrong Answer		Not Answered	
	Qty	%	Qty	%	Qty	%	Qty	%
Set Up - LF 5947	4	100.0 %	-	-	-	-	-	-
	4	100.0 %	-	-	-	-	-	-
	4	100.0 %	-	-	-	-	-	-
	4	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-
Process Observations	2	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-
Product Checks - Pass Conveyor	2	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-
	2	100.0 %	-	-	-	-	-	-

### First Time Quality



Begin Date	Sample	F-T-Q			F-T-Y		
		Defects	Bad Units	Pct OK	Defects	Bad Units	Pct OK
1/11/2004	37	34	33	10.81 %	34	33	10.81 %
1/18/2004	38	27	26	31.58 %	27	26	31.58 %
2/1/2004	10			100.00 %			100.00 %
3/7/2004	27	3	2	92.59 %	3	2	92.59 %
3/21/2004	5	12	1	80.00 %	12	1	80.00 %

**Industries and Companies Using Inspect**

**Car & Light Truck OEMs**

Ford, GM, Toyota, AM General, Mitsubishi

**Heavy Truck OEMs**

International Truck & Engine, Kenworth, Mack (Volvo)

**Tier 1 Automotive Suppliers**

Thyssenkrupp Budd, Johnson Controls, Lear, Flex-N-Gate

**Electronics, Military & Aerospace**

Redcom Laboratories, Rolls Royce, DRS Laurel Technologies



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