

Indev-ACT Case Study

DataMart™ Adhesive Tape Application

Increasingly, manufacturers of high-value-add products want to capture, analyze, correlate and archive both quality and production data to improve the performance of their products and pinpoint quality-related issues. The same data can also be used to prevent substandard products from proceeding downstream reducing scrap on other value-added production lines. Archived information can also be used to query customer complaints to justify or reject them. The time period the data is stored for can vary from a matter of weeks to years depending on the full cycle time of the product.

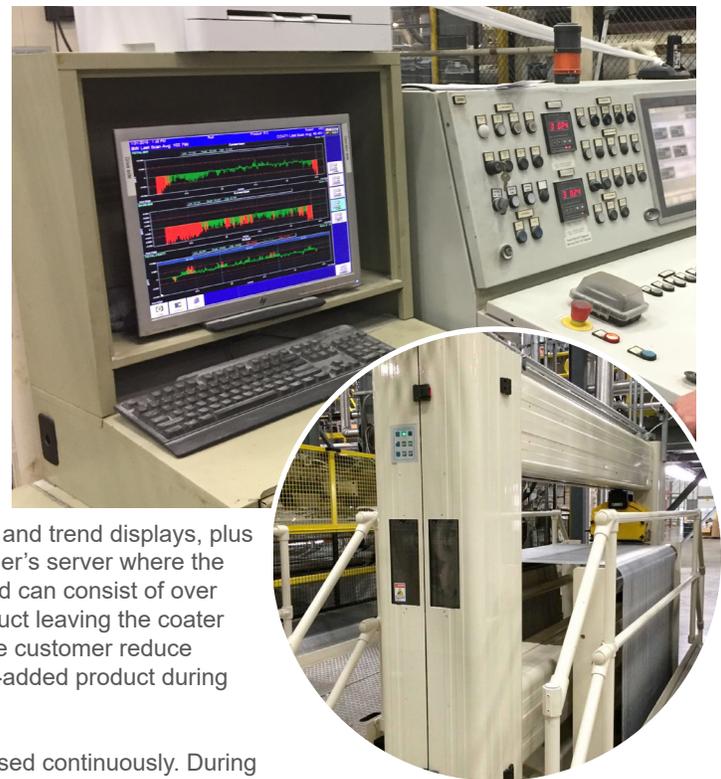
Indev-ACT's DataMart enables customers to access, summarize, filter and develop information from readily-accessible process and quality data. It is a query-based read-only relational database that is straightforward to use. DataMart is a condensed, focused data warehouse that is dedicated to specific information functions that can span across most all process areas. DataMart resides on the customers platform which allows information to be selectively shared across the organization. DataMart provides fast response to end-user queries that allows them frequent access the specific data they need.

This case study focusses on a manufacturer of paper and film-based pressure sensitive and water activated tapes. They are designed for demanding aerospace, automotive and industrial applications and are sold to a broad range of distributors, retail stores and large end-users. The customer's process comprises an adhesive coater with three web gauging scanners measuring the adhesive coat weights from up to two coating stations.

DataMart stores high-resolution quality data from the web gauging system's scanning sensors from each measurement zone or data bin across the web. There are 266 data bins at 1/4 in intervals (6mm) with a scan interval of 10 seconds and three scanners, which represents a considerable volume of data for further analysis and reference. The information is then archived onto the customers server. According to the customer, the DataMart product proved easy to integrate with the existing web gauging system and plant's network, allowing visibility into the base material and the final coated product quality following each coating station. The information can be viewed by the operator as either conventional profile and trend displays, plus as 3D waterfall displays, both on the machine floor and also from the customer's server where the DataMart application resides. The information is stored for up to one year and can consist of over virtually unlimited rolls of detailed quality data that is used to qualify the product leaving the coater prior to entering conversion for end-user packaging. DataMart has helped the customer reduce quality-related rejects and further build brand quality while saving high value-added product during manufacture.

The DataMart product was installed at the plant during 2017 and has been used continuously. During this time the system has been adapted to the process to best reflect the terminology and information formatting required by the customer. Indeed, it has received an "A" appraisal from the customer for Indev-ACT's team their cooperation and support throughout the project.

To quote the customer *"Indev-ACT has been responsive to our needs, making DataMart exactly what we want, such that now we cannot possibly run without it's reporting capability."*



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