ASI DATAMYTE’s Data Collection Solution leverages the strengths of portable, fixed station and unattended data collection systems and the ability to integrate virtually any type of plant floor measurement device to deliver error-proof variable and attribute data, creating a solid quality system base allowing full traceability, analysis and reporting.

Major solution benefits and key features:
- Direct data collection eliminates sources of error
- Consolidate plant wide collected data
- Ensure measurement integrity
- Flexible data collection applied to your environment
- Operator independent data collection
- Different data types and data classes
- Collect from virtually any measurement device
- ERP/MES integration

Continuous Improvement - Reducing Cost Of Quality

Traceability and Lifecycle Management
Integrated Quality Planning

Data Collection - Plant Floor Connectivity - MES Integration

DATA COLLECTION
Data integrity, your quality cornerstone
- Direct data collection eliminates sources of error
- Consolidate plant wide collected data
- Ensure measurement integrity
ERROR-PROOF OFF THE LINE

How data is gathered from the point of entry and spread out to quality applications throughout the factory and beyond determines the extent to which productivity and product quality goals can be realized.

Accuracy is paramount. Timing is essential.

A manual data collection task may involve reading a gage, writing the value, and then keypunching the value into a computer. Each of those three steps takes time and presents an opportunity for reading or transcription error. Direct electronic data collection is a quantum leap faster and, at the same time, eliminates sources of error.

ASI DATAMYTE is the industry leader in automated factory quality data collection systems for all classifications of data – variables data based on measurements, attributes data based on observations, and identifying data such as lot numbers, operator ID, timestamps, and gage serial number.

Attribute Data

Attribute data is based on observations. The primary data collection system involved is usually the human eyeball connected to the human brain. This is not a bad thing, but it does subject the operation, once again, to human error. So-called “binary” attributes, such as noting either a pass or fail condition in a simple safety test, are the easiest to observe and collect. Qualitative attributes add complexity, and may require instructive information, such as the physical location of the attribute, and individual judgments on the part of the operator. Was that a scratch or a gouge? Where was it exactly? Instruction manuals may be helpful. But in the real world, the hassle and impracticality of carrying a book around means they’re not likely to be present and accessible.

The automated ASI DATAMYTE attribute collection system provides electronic documentation and takes away the guesswork. It assists the operator with initial classification by displaying examples for matching. The solution uses a touch screen to enable quick and highly error free data collection. The operator simply matches a “concern” on a picture to the precise location on the work piece. In addition, a zoom feature eliminates location confusion when multiple concerns are in close proximity.

Identifying Data

Identifying data such as lot number, serial number, VIN, Datamatrix code or operator ID can be collected error free using barcode or card readers, selected from an onscreen list or keyed in.

TAKING IT TO THE DATA

The ASI DATAMYTE Data Collection Solution supports three modes of data acquisition:

- Attended Fixed Station
- Unattended
- Attended Remote/Portable

Attended Applications involve an operator taking measurements or making observations. In order to greatly reduce the probability of human error, the ASI DATAMYTE solution includes a system of interactive communications featuring rich graphical prompts and instructions, which culminate in verifiable job completion. The operator is directed to perform specific data collection tasks and informed as to the unique requirements of each.

The operator responds to a series of prompted steps that incorporate photos and images illustrated with text and other forms of visual indicators to very clearly communicate the work to be done. Our simple to use image editor allows you to import images, add circles, arrows and text. Images may be cropped so that the focus is on the most important part to provide faster operator recognition.

Unattended Applications are fixed stations where computer based models serve as high volume workhorses and data collection hubs. Stations can be sealed in order to perform reliably in harsh environments. Direct interface to production system components such as torque controllers or PLC’s enable completely unattended automatic data collection.

Robust and powerful software modules add synergies beyond the point of quality data gathering to SCC data collection, analysis and charting. ASI DATAMYTE’s QDA software allows you to collect a wide variety of data from as many different sources as your application requires. The inspection plan can include as much or as little supporting information as you feel an operator will need.

Direct data collection eliminates sources of error.

QDA is capable of doing every evaluation but data may also be delivered to a variety of databases, data files, or directly into Excel. It can be easily compared to and correlated with data collected offline.

Portable Applications leverage the error proof data gathering power of ASI DATAMYTE Data Collectors. Capture data efficiently and accurately when you need it, where you need it. These are hardened devices, with ruggedized cases that keep cranking through dusty, oily and drop-prone environments. Take data collection to the factory floor, the lab, the shipping yard, or to the far and tight reaches of a wing assembly.

The ergonomic design keeps operators happy while automating data collection routines. It’s ideal for mobile operations, especially in small, confined spaces. The collectors feature backlit LCDs and a keypads oriented for right or left hand operation. The variety of connector options are compatible with serial measurement devices, such as calipers or scanners; or analog devices, such as gap and flush gages and torque wrenches.