

# Benefits of Shop Floor Automation



## Automated Data Collection

- Reduction of manual data collection errors that resulted in the rejection of manufactured product based upon quality audit.
- Provides on-line data retrieval that significantly reduces hard copy record storage costs as well as the time related to off-line retrieval of archived manufacturing data (product recalls or litigation defense).
- Significantly streamlined data collection process through barcoding and machine interfaces.
- Increased throughput in processes that are bottlenecks in the manufacturing process, receiving, shipping, material issue, inventory movements, cycle counting, physical inventory, labor and production reporting.

## Materials Control

- Accuracy of materials reporting and consumption.
- Accuracy of scrapped materials tracking.
- Recognition of raw materials inventory levels for improved manufacturing planning and purchasing.
- Identification of manufacturing operations where raw materials are being scrapped.
- Automation of WIP calculation via automated materials issue by manufacturing process.

## Product Traceability

- Limiting the impact of the cost of a product recall via automated collection of critical material and product lots.
- Limitation of product liability by storing historical product manufacturing information that can be easily retrieved in order to defend a future product liability lawsuit.

## Quality Control

- Provides on-line retrieval of data, which substantially reduces the time required to approve the product for shipment.
- Provides a single source of retrieval of manufacturing data that was previously stored on disparate systems.
- Significantly reduces the human resources required to audit all manufactured lots by placing manufacturing rules into software that must be utilized in order to produce product.

## Automated Production Reporting

- Elimination of manual data entry errors.
- Elimination of material transaction omissions.
- Real-time collection of WIP inventory for month-end processing.
- Real-time production reporting to ERP system. Product available to ship and visibility to manufacturing planning and scheduling.
- Required accountability for materials scrapped in manufacturing process (automated materials issue minus quantities produced equals yield loss and scrap).
- Elimination of significant labor hours related to manually opening work orders, issuing materials, reporting production and scrap.