



DataSpan

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RFID TECHNOLOGY IN MANUFACTURING

If your manufacturing plant goals include improving inventory visibility and accuracy, optimizing material management processes and generating real-time work-in-process information, give DataSpan a call. We'll help you take a look at scalable RFID options for your company

Manufacturers are finding properly designed and installed RFID technology an ideal tool to significantly assist in achieving their material management goals. RFID stands alone as a superior technology solution to provide automatic, real-time, error free asset tracking through the entire production cycle from raw materials to finished inventory. Manufacturing supply chains are also adopting RFID data collection solutions to more efficiently collect and manage data related to finished goods, goods-in-transit, receipt and inventory warehouse management.

RFID uniquely offers 4 Technical advantages:

- Accelerated Data Gathering Speed – RFID technology can scan 100+ tags in a second or two depending on the application, tag and reader combination versus 1 tag read per second using a bar code technology approach. Further, a UHF RFID reader does not require line-of-sight to gather tag information, and RFID tags can be read through several materials such as cardboard boxes, plastics, etc.
- Automated Data Gathering - Properly selected and installed RFID readers at choke points such as personnel/dock doors and corridor intersections will automatically gather reads from passing tagged assets and report movement and various alerts without human intervention.

- Extended Read Ranges – UHF RFID tag read range is measured in feet rather than inches offered by bar code approaches.
- Scalability – Once an RFID tag/reader/software infrastructure is in place, additional valued assets such as employees, visitors, forklifts, trucks, etc. can be tagged and tracked often using much of the same previously installed tag/reader/antenna/software infrastructure. This newly collected information can then be integrated into company legacy systems such as ERP, SAP, ServiceNow, Oracle and WMS.

Benefits of RFID Technology:

- Lower operational costs-
- Increased inventory accuracy of raw materials, parts, tools, and partially finished and finished goods inventory.
- Improved personnel utilization
- Quickly located lost or misplaced tagged assets using RFID handheld readers.
- Ability to extend the initial RFID installation to new applications.