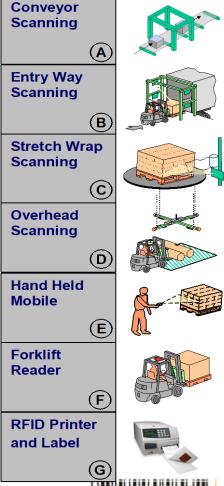# Warehouse Management System

Bartronics Warehouse Automation & Management Solution efficiently manages warehouse and inventory from end to end.

- Identifying pallets and other returnable logistics containers with RFID tags facilitates automated tracking systems that reduce manual handling and dwell times.

- RFID gate readers can identify an incoming shipment, other RFID systems can track individual pallets, cartons and cases, as they are unloaded.

- RFID readers at the dock door can expedite the identification of pallets in an entire shipment and log them into warehouse management or inventory control systems in seconds

- Handheld or stationary RFID readers can save valuable time in cross docking by instantly locating needed items and accurately recording their transfer to outbound shipments.

Conveyor Scanning (A)	
Entry Way Scanning (B)	
Stretch Wrap Scanning (C)	
Overhead Scanning (D)	
Hand Held Mobile (E)	
Forklift Reader (F)	
RFID Printer and Label (G)	

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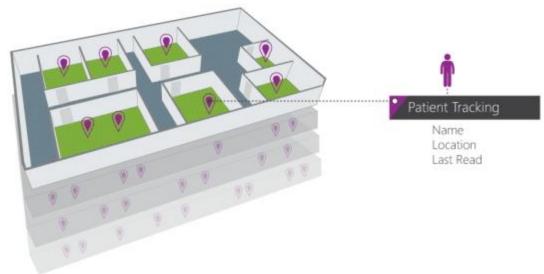# Benefits : RFID For Warehouse Management

Common Applications	Benefits
Receiving	Optimize inventory - Improve order-to-cash cycle
Cross-Docking	Improve load balancing - Reduce expediting - Increase fill rate
Put-Away	Optimize space allocation - Maximize stock rotation - Shorten lead-times
Inventory Mgmt.	Improve capital usage - Reduce shrinkage - Optimize stock rotation
Order Mgmt.	Reduce fulfilment time - improve order accuracy - Reduce returns
Shipping	Increase accuracy - Improve speed

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Patient Tracking System

Bartronics gives healthcare institutions the power to locate patients, staff and equipment at all times, improving patient care and the safety of both patients and staff.

Patient & Personal Tracking Solutions:

- In any health care facility – large or small keeping track of every patient all the time can be extremely challenging.

- Bartronics real-time patient tracking solution is based on Active RFID , providing highly accurate room level resolution by providing alerts about patient incidents and to offer essential data.

Patient Tracking
Name
Location
Last Read

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Patient Tracking System

With the simple action of providing RFID Tags to patients and caregivers/personals, Will know at a glance:

- Where patients are and how long they've been waiting

- Patient status (ready to be seen, with physician, in X-ray, etc.)

- Room status (available, assigned, in need of cleaning)

- Where patients and caregivers should go next

- Where bottlenecks are causing delays

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Baby Tags:

Bartronics innovative RFID tagging system offers instant and continuous protection for babies 24/7- preventing unauthorized removal of infants from maternity wards through the use of discrete baby tags, they are:

- Light weight & Discrete
- Comfortable
- Water – resistant
- Hypoallergic

How the infant protection system works:

As soon as a baby unit is put on an infant, the tags signal is reported to the administration system. From this moment on, the infant is protected. The baby tag information is then displayed on the screen, indicating to staff that it has not yet had a name assigned to it. After a predetermined time frame (set by the hospital), the system will alert staff that they have still not assigned a name to the baby tag number.

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Surgical Set Tracking Solutions

Bartronics Automated Surgical Set Tracking System offers accurate, effective and near real-time tracking and monitoring capabilities of the RFID tagged surgical sets and medical items in Central Sterile facilities of the hospital.

- The system can be integrated with hospital information systems (HIS), SPD equipment (decontamination, sterilization etc.) and Real-Time Locating Systems (RTLS).

- Registering the Surgical set in system by assigning RFID.

- Each Equipment & Machine is also registered with RFID tag.

- Each set is uniquely identified and tracked in the system.

- Defining set instruments & qty.

- Defining set life span and no. of usage to track set usage and end of life of sets.

- Fixed RFID reader at the points detect the sets and inventory is updated in the system accordingly.

- OT Staff use the surgical set on a patient by scanning the Patient tag and surgical set RFID Tag , Also OT location and nurse details are also captured in the system.

WASHING
Surgical sets are scanned to link to washer

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Jewelry Management System

The RFID Based Jewelry Management System is designed to manage the tracking, distribution, sales and flow of the jewelry from production to distribution to retail.

- Jewelry pieces are tagged with RFID tags programmed with information such as model no, serial no, description, weight, carat, images, etc.

- Tag has a unique ID; can be tamper evident and so alert for missing items

- Various type of RFID readers are used to track stock movements, enabling tracking of jewelry from factory, to the vault, to sales floor and POS

- Stock control can be performed quickly at any time of the day

- Quick & easy search for particular jewelry by using Mobile RFID devices

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RFID Automation - Linen Tracking System

- RFID Linen tracking systems use a network of location based RFID fixed readers or mobile RFID handheld readers to track RFID tagged Linens.

- Reader and antennae placement can provide complete coverage of a access/Door/Room's exit and entry points ,so the Linens and users can be tracked through the last known state.

- Depending on how a system is configured any Linen crossing the read points can be associated with an Staff RFID Tag in the read zone so the system automatically updates the database with the present location and the new status, while keeping track of what Staff has which items.

- Moving an Linen through a reader's read zone or the vicinity of a handheld will automatically update the system.

- RFID System cab be defined to trigger alerts that can deal with exceptions or irregularities.

Linen Solution Components

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MRO Tools Tracking Solution

Bartronics offer an integrated suite of Maintenance Repair & Overhaul (MRO) tracking RFID solutions, improving visibility and control with inventory and Track operations, warranty and associated labor, material & miscellaneous costs.
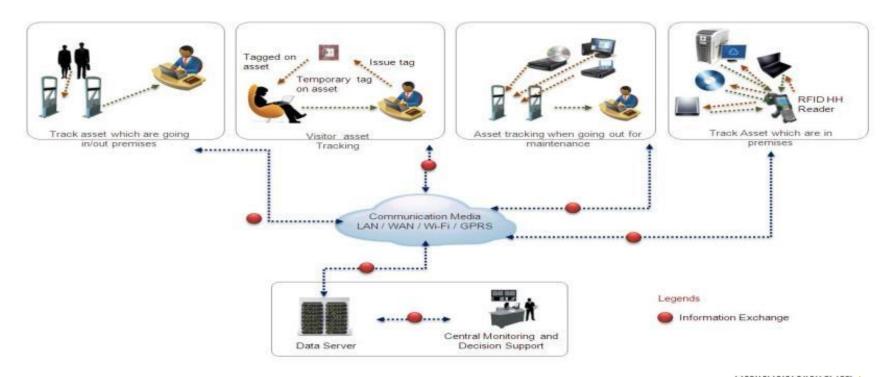
- Registering the tool box and each tool in the box by assigning RFID tags.

- Tool life span is recorded to track its usage and end of life.

- Locations in the store are uniquely identified by assigning RFID tags.

- User move the tools to the location , Scan RFID tag of location and then scan RFID tags of Tool boxes.

- Tools Inventory with Location details is updated in the system.

- Tools can be issued / transferred using mobile RFID readers.

- Automates tracking of tools check in and check out
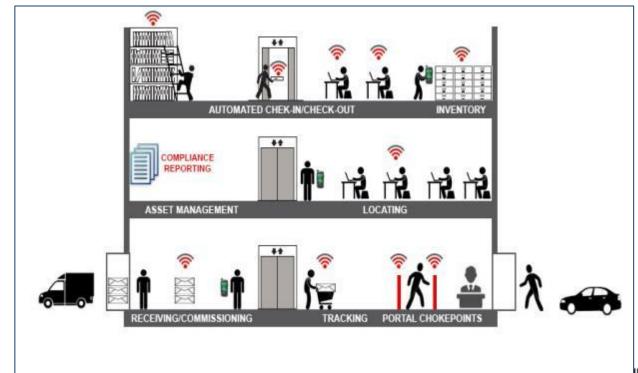
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Laptop Tracking System

- RFID Provides a fully operational system enabling the automated identification and tracking of laptops, leading to increased efficiency and enhanced security.
- RFID can scan multiple tags per second, that means no one needs to stop to have their badge scanned -- just keep on walking

Document Tracking System

- RFID document management systems enable organizations to track and manage controlled documents in any environment. Perform a full document audit in minutes rather than days or weeks.

- Using RFID technology, Bartronics can fully automate the tracking and locating of physical files and documents, including authorizing access, recording check-in/check-out, providing inventory counts and all associated reporting.

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Library Management System

RFID Based Library Management System enhances the traditional library means of circulating libraries items such as Books, Audio and Visual Tapes, CDs and DVDs and automates complete library activities.

- Each book/item would be affixed with an RFID Label. Corresponding details like Identification Number, Book Name, Author, Category, etc. can be written to the memory of the RFID Label

- Automated Library activities with the following modules
  - RFID Check In/Out Station
  - Return Item
  - EAS Anti-Theft Gate
  - RFID Admin Station
  - Circulation and Grouping Station

- Self Check In/Out Station
  - Automated Borrowing
  - Returning and
  - Renewing of items

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Weapon Tracking System

Bartronics weapons tracking solution utilizes RFID technology to track weapons, munitions, and other valuable assets and their users.

- Registration of Weapons and other equipment's with RFID tags

- Route/Path Configuration and Registration of Staff

- Portable RFID Readers are used to rapidly inventory weapons and other gear, and find items that are misplaced or missing.

- Path is Monitored using Fixed RFID Readers at predefined Locations.

- System Tracks the Weapons/Equipment at real time.

- Alarm is raised if Weapons are not reached to Store or at particular location on Specified time.

- Alarm is raised if Weapons violates the selected path on transport to stores

Asset Management System

Bartronics Asset Management Solution enables organizations to know exactly what components they own, lease or control, as well as how those components are being used throughout their life cycle, from acquisition all the way through dispatch.

- **RFID technology :** RFID allow for non-contact reading and are effective in manufacturing and other hostile environments where bar code labels could not survive.

- **RFID Tags** are applied on the IT equipment's, office equipment, tools, etc., which facilitates automated tracking systems.

- **Mobile Computers** read, and decode RFID Tags. Performing Stock count and data capture at point of action.

- **Wireless networking** and mobile computers are an integral part of RFID data collection systems.

Work-in-Process Tracking System

- Work-in-process (WIP) tracking is one of the most proven and widespread uses of radio frequency identification (RFID) technology.

- Process and discrete manufacturers use a variety of RFID labels and tags to route materials through automated production processes, monitor chokepoints, provide real-time updates to manufacturing management systems, communicate configuration instructions and much more.

- WIP Tracking Solutions improve productivity by eliminating manual paperwork and automating traceability.

- Bartronics helps deliver the benefits of automated WIP tracking with reliable printer/encoders that create RFID smart labels on demand in challenging production environments. .

- Bartronics supports multiple RFID technologies, standards and protocols, and offers numerous label materials and sizes so customers can find the perfect match for their processes

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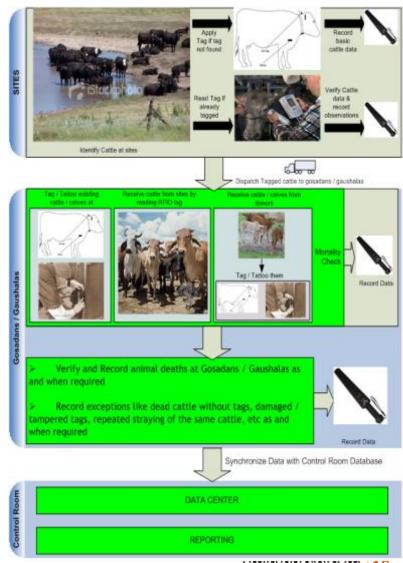*making businesses work*

Access Control System

- RFID Based Access Control System can provide an easy and efficient solution for enabling access to only authorized persons to enter a particular area of an establishment.

- RFID embedded cards are being used for identification of authorized person to allow or deny access to restricted area.

Features

- Monitor alarms and events real-time

- Mange Access areas and Schedules

- Manual override of system functions and schedules

- Anti-pass back processing

- Centrally manage access Control devices

- Photo-ID Badge Production

- Supports RFID card based access, Fingerprint, Facial and Iris recognition

A user is trying to open the door by placing an RFID tag near the RFID reader

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Animal Identification

- RFID enables the recording and tracking of individual animals over their entire lifecycle, even in a herd of thousands.

- Since each RFID tag is unique, a livestock database that keeps track of the animal's origin, parentage and breed can be easily created.

- Continued tagging over generations of livestock creates a genetic history that helps establish lineage, maintain quality of stock and improve breeds.

- Each database can be integrated into a regional or national animal ID system that records nationwide animal location, ownership and trade, creating a ready reference for farm owners, breeders and health officials.

- RFID usage helps monitor health of the herd, keep individual medication and vaccination records, and prevent the spread of disease by tracking and segregating infected livestock at early stages, leading to successful isolation and treatment that saves the rest of the herd

RFID Pharmaceutical Supply Chain Solutions

- RFID Tracking System provide the ability to track custody and issuance of prescription drugs throughout the pharmaceutical supply chain.

- Meet pedigree compliance needs thereby providing an auditable electronic record to track and trace each step taken for prescription drugs.

- Prescription drugs are tagged with RFID tags programmed with information related to the drug such as dosage, strength and quantity.

- Effectively tracking and tracing products both internally and externally.

- Documenting product history from manufacturing to the customer.

- Providing a supported chain of custody for finished goods .

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Representative Customers