smart *cabinet* with *RFID* technology

GUSSMANN
smart*cabinet*

" We understand the difficulty of Tracking Inventory."

So we build a solution that gives you *instant; precise;*
inventory information that *saves* both *time & money*.
You can *traceability* in real time of all *movements*
made with the object contained in the cabinet.

what is smart*cabinet*?

Gussmann smart***cabinet*** is a restricted-access smart cabinet system based on RFID technology for the management of high-cost material or material with patient traceability requirements.

Its main areas of application within the Hospital are the Cath Labs (Hemodynamics Department, Interventionist Radiology, etc) and OR Area (Surgical Block), where the shortened expiry date of certain products, together with thier high cost, makes it vital to reduce inventory levels and ensure optimal stock management.

Using RFID technology, **Gussmann** smart***cabinet*** manages traceability in real time of all movements made with the objects contained in the cabinet.
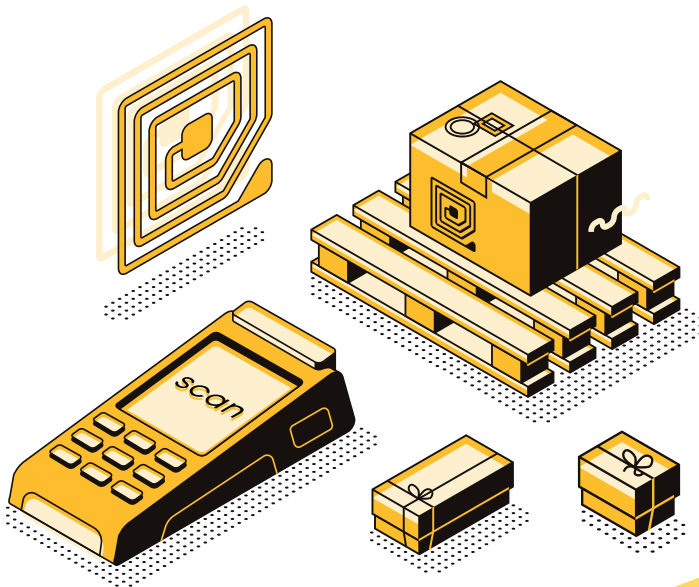
A touchscreen provides the usability that the nursing staff needs for a friendly and safe performance of its duties.

System management, monitoring and reporting is provided by Gussmann, a logistic management software at the consumption point, Among other functions, **Gussmann** manages cabinet access, consumption records, automatically generated restock orders, while also providing access to parameterizable reports that allow real-time analysis of the information for effective decision-making.

based on the new generation of RFID technology, the smart*cabinet* **tracks all types of items regardless of their size and positioning.**

Cost - effective

+ 100% ROI through inventory optimization
+ 48% reduction of staff time spent on
  administration tasks
+ 30% reduction in on-hand inventory
+ Eliminates stock-outs and expired itmes
+ Ensures accurate consignment

Accurate

+ Real-time consumption automatic reporting.
+ Automatic connections to billing, ordering and logistics.
+ Immediate identification of procedure and consumed item
+ Eliminates human and administrative errors
+ No need for manual intervention

Simplify

+ Increased control over usage recording and staff
+ Enables suppliers to actively monitor and provide
  feedbacks on their remote consignment inventory.
+ Worldwide database for updating and maintaining
  item master
+ Easy-to-understand analysis reports

benefits

Return on Investment ROI

+ Controlled access to high cost material and minimization of material losses.
+ Minimization of product expiry-related costs.
+ Reduced inventory costs.
+ Improved charges record of high-cost material.

Imporved patient Safety

+ The right product is avalable at the right time.
+ Nursing staff have more time available for patient care.
+ Eliminates the use of expired products.
+ Quick response to product health alerts.
+ Product traceability with batch, serial number and expiration date record.

Improved inventory Management

+ Inventory levels matched to actual consumption.
+ Minimizes time devoted to inventory taking and product expiry monitoring.
+ Eliminates errors associated with both manual inventory management and manual consumption recording.
+ Product traceability from their Hospital arrival to their consumption in surgical procedures.
+ Precise data capture without any need for manual recording.
+ Automatic restock orders for what is needed when it is needed.

Use of Information

+ Real-time availability of accurate information on the use of high-cost products.
+ Ready access to information through management reports.
+ Possibility of on-line access to inventory report, itemized by supplier.

Each product to be stored in the cabinets is labeled beforehand with a passive RFID tag. The tags provide a unique identifier for each item. This enables information to be ascertained about each item's features such as article number, batch number, serial number, expiry date, etc. This information can also be printed on the label.

Item association to the tag is transparent for the user and is carried out automatically when printing the location labels. Thereby, each product is automatically linked to the RFID tag at the time of printing.

Automatic recording of movements

After identifying the user and selecting the function to be performed, **Gussmann** unlocks the doors to allow access to the cabinets' contents. It is from this point that the RFID's intelligence comes into play. After the doors have been closed and the user has logged out, the system locks all the doors again, it performs an inventory of the cabinets' content and it automatically identifies all product movements made by the user.

The users do not need to read barcodes or press buttons to record inventory movements.

Integration

An integration platform guarantees connectivity and real-time data transfer between **Gussmann** smart**cabinet** and the HIS, avoiding transcription errors and duplicated data entry in different systems. The main interfaces to be implemented are the item master, inventory movements, restock orders, patient ADT, users census and charges record.

features

Hardware

+ 100% item reading, irrespective of location or position inside the cabinet.
+ Modular system enabling a group of cabinets to be managed from a single touchscreen.
+ Cabinet access to authorised personnel only.
+ Standardized structure, giving maximum flexibility in content organization.
+ Cabinet made with cleaning resistant materials.
+ System equipped with on-board UPS that guarantees system availability during temporary power outages.
+ Indicator lamps for doors unlocked and doors accidentally opened.
+ Audible alarm for doors accidentally opened.
+ Cabinets fitted with plinth for easy cleaning.
+ Opening by manual lock in contingencies.
+ Different options to user identification.

Software

+ Cabinet management software developed for a touchscreen interface enabling easy use. Easy-to-learn and intuitive software.
+ The system identifies who access the cabinets, for what purpose, what he/she takes out or puts back, at what time these inventory movements are performed and, lastly, records the patient for whom the material is intended if it is taken out for a procedure.
+ Able to operate off-line with databases replication.
+ Integration platform.
+ On-line reporting system with real-time information.
+ Advanced query module.
+ Alerts for products that have expired or are close to expiry.