

Palex
Constant Improvement

Dyane SmartCabinet®

Real-time management of high-cost material




DYANE
smartcabinet

Palex Medical

Smart solutions with RFID: inventory management in real time

At **Palex Medical**, we seek to provide the latest innovations for healthcare professionals.

Our Hospital Logistics division has ample experience in the field of hospital logistics, providing automated, comprehensive and tailor-made solutions to facilitate resource management and improve the quality of patient healthcare.

Given the expense of healthcare, the constant focus on patient safety and the daily pressure on healthcare professionals, systems offering **safe and traceable logistical processes for high-cost products are more essential now than ever before.**

Dyane SmartCabinet® is a **restricted-access smart cabinet that uses RFID technology** to manage high-cost material or material with high patient traceability requirements. Due to the complexity of managing these products, their efficient use at the points of use and optimal inventory management are absolutely essential.

The **DYANE**, software, together with integrations in the hospital information system (HIS), facilitate the automation of administrative processes, relieving healthcare professionals of administrative tasks and enabling them to focus on patient care.



Thanks to our R&D&I in the field of RFID, we have implemented the most innovative, robust and reliable smart solutions available on the market, making us one of Europe's leading manufacturers.

SMART CABINETS FOR THE MANAGEMENT OF HIGH-COST MATERIAL

Unique innovations and features of the Dyane SmartCabinet®

- ✓ New model with glass doors.
- ✓ Ease of integration with the hospital's computer systems.
- ✓ Automatic movement registration, inward and outwards, without scanning barcodes or pressing buttons.



Patients

Allocate to a patient or department from a single cabinet.



Information 24/7

Information available in real time from any device connected to the hospital's network.



Reliability

Product readability regardless of its position in the cabinet.



Usability

Intuitive interface with touchscreen.



Traceability

Alerts for products that are close to expiry. Product identification in the event of a product recall.



Access to information

Automatically-generated restock orders, regular consumption reports and the sending of data for implant sheet generation.



Restricted and monitored access

Identification by password or personal card. User access and movements log.



Modular system

Flexible internal layout and the option to increase storage capacity.



Warnings

Warning lights and alarms for unlocked or accidentally-opened doors.



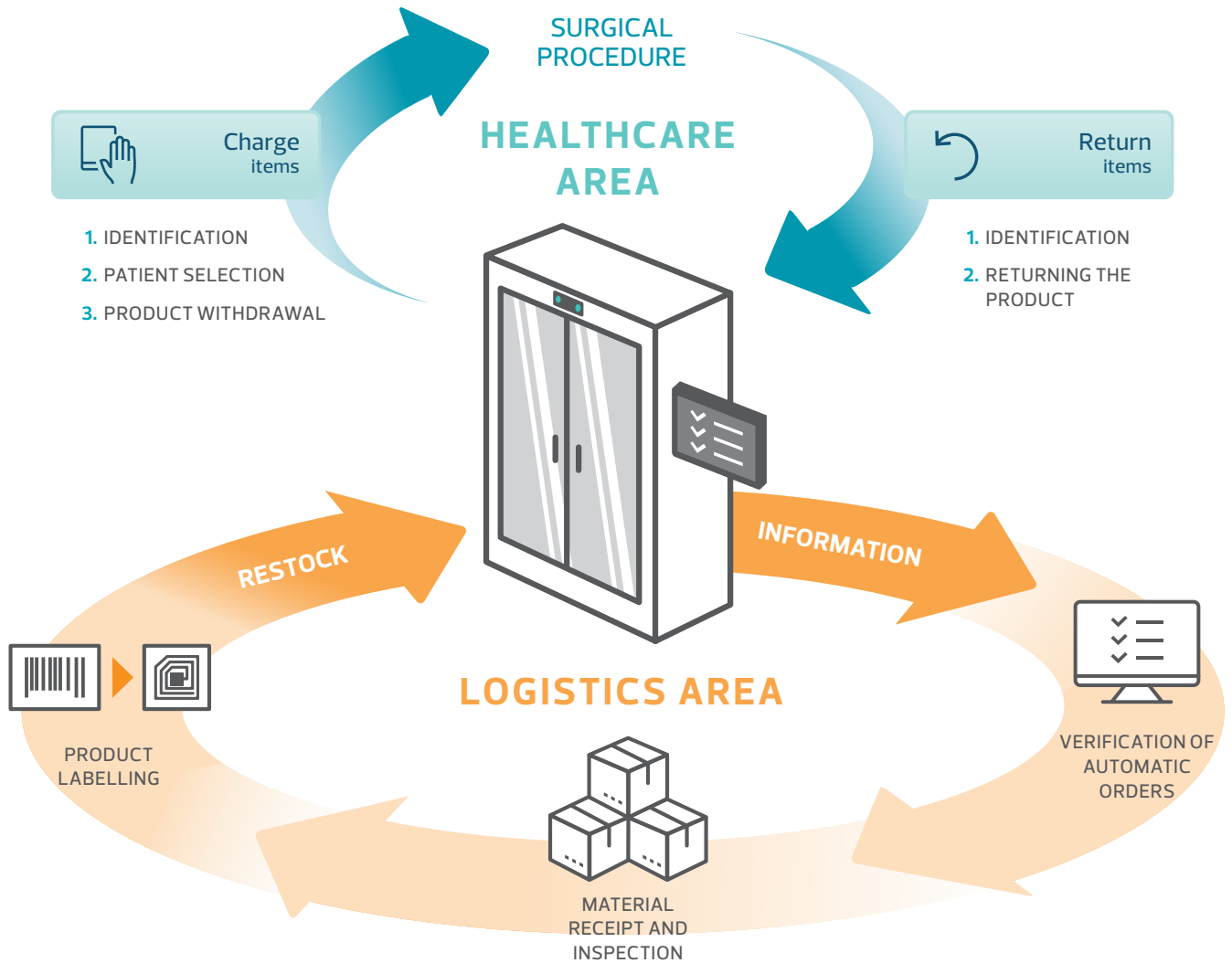
Contingency features

Uninterruptible power supply (UPS) that guarantees system operability during a power outage. Option to open by manual lock.



MORE THAN JUST AN RFID CABINET

Medical Material Flow with Dyane Smartcabinet®



BENEFITS

PATIENT SAFETY

- ✓ Control of expired products.
- ✓ Rapid reaction in the event of healthcare product alert.

HEALTHCARE PERSONNEL

- ✓ Elimination of administrative tasks, freeing up more time for patient care.

INVENTORY MANAGEMENT

- ✓ Space optimisation for storage and stock.
- ✓ Time dedicated to inventories and control of expired products minimised.
- ✓ Elimination of errors associated with manual inventory management and consumption records.

TYPICAL CONFIGURATIONS

Dyane SmartCabinet® is a versatile solution that adapts to the needs of each hospital. Storage space can be expanded by installing auxiliary cabinets connected to the main cabinet.



Basket kits	Shelving kits	Large-volume storage	Catheters rack
<p>Baskets and trays suitable for all product types</p> <p>Customised configuration</p>	<p>Shelves with backstop for stents</p>	<p>Special sliding tray for large material</p>	<p>Rack of 4 or 5 telescopic guides. Each guide has 4 independent supports with their label holders</p>
<p>Ideal for ophthalmology, traumatology or plastic surgery</p>	<p>Ideal for haemodynamic material</p>	<p>Ideal for laparoscopic surgery products</p>	<p>Ideal for interventional radiology</p>

TRACEABILITY

- ✓ Complete product traceability from the moment it arrives at the hospital until its registration in surgical procedures.

INFORMATION

- ✓ Availability of essential information to facilitate strategic decision-making.
- ✓ Real-time information of all product (inward and outward) movements.

RETURN ON INVESTMENT

- ✓ Controlled access to high-cost material and minimisation of material losses.
- ✓ Minimisation of product expiry- and/or obsolescence-related losses.
- ✓ Reduced inventory value.

SOFTWARE

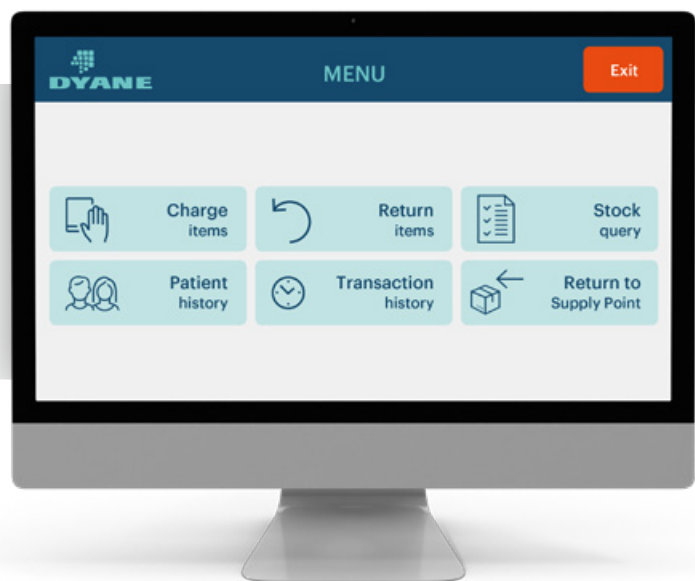
The software that manages the **Dyane SmartCabinet®** is called **DYANE**. This manages, monitors and restricts cabinet access, records material movements and automatically generates restock orders at the point of use.

It also generates parameterisable reports that enable data to be analysed in real time to facilitate effective decision-making.



Application fully designed and implemented by **Palex Medical**

that guarantees complete control over its features and constituent modules without relying on third parties.



SYSTEM

The system comprises two unique applications offering different features.



HEALTHCARE PERSONNEL

Application featuring intuitive and easy-to-use touchscreen at the point of use.

- ✓ Product allocation to patients or departments.
- ✓ Automatic reading of returned products.
- ✓ Alerts for products that have expired or are close to expiry.
- ✓ Automatically-generated restock orders.
- ✓ Allocation and movements search function by patient.
- ✓ Stock search function.
- ✓ Product return to general storage.



ADMINISTRATIVE AND LOGISTICS PERSONNEL

Online management, configuration and report-generation application.

- ✓ Data exploitation through advanced parameterisable search functionality:
 - Inventory movements.
 - Allocations and returns.
 - Stock and inventories.
 - Traceability and expiry.
- ✓ Access to the information from any hospital interface with registered credentials.
- ✓ Parameterisation of material.
- ✓ Management of users and definition of user roles.
- ✓ Label printing.

SUCCESS STORIES

Hospital setting in which product procurement is managed – time frame of 1 year

AREA: surgery **TYPE OF PRODUCT STORED:** material for laparoscopic surgery



20.10% reduction in **consumption** (losses and expiry control).



40% reduction in **stock** value. One of the two warehouses no longer required.



100% reduction in the time taken to monitor **stock levels and expired products**.



60% reduction in the **time** taken by healthcare personnel to allocate products to patients and complete **administrative** tasks.

Hospital setting in which vendor manages its product inventory (VMI) – time frame of 1 year

AREA: haemodynamics **TYPE OF PRODUCT STORED:** stents



24.42% reduction in **stock** (from 401 to 295 units; from €413,273.36 to €312,353.22).



94.96% reduction in the number of **expired** products (from 158 units/year to 8 units/year).



95.83% reduction in the number of **urgent orders** (from 3.60% to 0.15%).

Solutions for a **new era of management**





DYANE SMARTCABINET

Smart RFID cabinet for high-cost material management

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