



Product Catalog
Automated Textile
Management Solutions
For UHF RFID-tagged Items



TEXTILE MANAGEMENT

POLYTEX IS YOUR ONE-STOP SHOP FOR HASSLE-FREE TEXTILE MANAGEMENT

Polytex offers fully automated textile management solutions that handle all types of flat linens, including bedsheets and towels, as well as uniforms and aprons. Our solutions ensure clean, well-maintained textiles for use in hospitality, healthcare, and industrial environments.

Benefits

Polytex textile management solutions help hospitals and hotels control inventory, enhance hygiene, and optimize operations for maximum efficiency and savings.



Accurate Inventory Control

Streamline inventory management, with accurate tracking, monitoring, and control of all textile items. Reduce human error and get accurate insights into usage and daily stock levels, and improve workflow efficiency to ensure that textiles are readily available when needed.



Direct Cost Savings

Reduce manual labor costs and monitor usage of items to prevent loss. Create transparency with laundry service providers and gain more visibility into procurement quantities and associated costs.



24/7 Availability

Track usage trends, monitor inventory levels, set reorder triggers, and coordinate cleaning cycles with external laundry service providers to ensure timely replenishment of textiles and 24/7 availability for all departments and users.



Hygiene Compliance

Prevent contamination from soiled towels and bed linen, reduce wear and tear or damage, and generate a detailed record of item usage and cleaning schedules to meet and maintain health and hygiene compliance standards.



Collaboration

Improve communication and transparency between the laundry service and the textile management team.



Management

Use a single software interface to efficiently track, monitor and control your uniforms as well as flat linen. Polytex Total Care Manager brings all textile and workwear management into one secure, cloud-based app.

Textile Management Products

Polytex offers reliable, fully automated textile management solutions for managing UHF RFID-tagged textiles, offering low costs per employee, accurate usage tracking, and high operational efficiency.



Cart Reader Cabinet



Smart Cabinet



Tabletop Reader



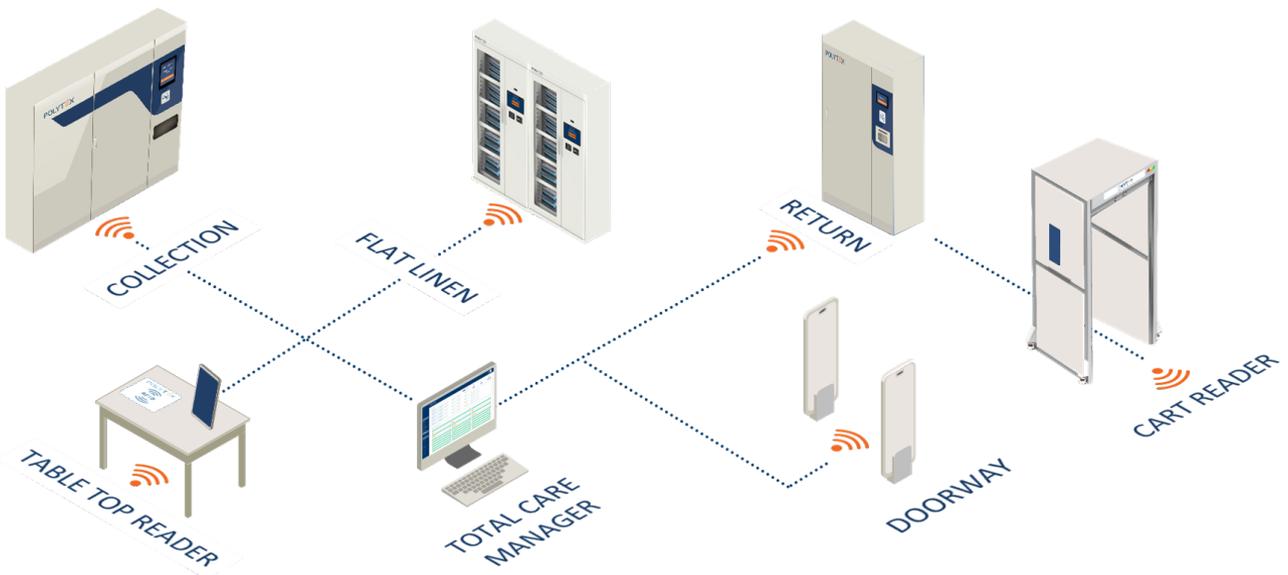
Hand-held Scanner



Doorway

Full Cycle Solution

Polytex simplifies operational processes with an automated, full-cycle digital workwear management system. All our flat linen management products integrate seamlessly with other Polytex workwear solutions, to create full visibility and control over your entire inventory.



CART READER CABINET

ELIMINATE MANUAL OPERATIONS TO IMPROVE BULK TEXTILE MANAGEMENT

Polytex simplifies textile management operation processes with precise scanning and recording of bulk textiles. The Polytex Cart Reader streamlines inventory tracking, ensures accurate counts, reduces errors, and enhances overall efficiency.

Feature Highlights

Polytex Cart Reader Cabinets improve the efficiency and accuracy of textile management activities and are suitable for use with any type of laundry cart and hamper. Each cart reader cabinet includes 7 RFID panels for accurate error-free scanning. All RFID panels are concealed behind the metal cabinet walls.



- Built-in RFID Reader**
Accurately scan and track carts loaded with any type of flat linen.
- Easy Accessibility**
Convenient two-door wheel-in and wheel-out front and back doors.
- Cart Capacity**
Flexible configuration can handle all types of laundry carts.
- Industrial-grade Design**
Made of sturdy, long-lasting, and easy-to-clean metal.
- Remote Monitoring**
Continuously monitor status of cabinet and track clean and soiled inventory.

Configuration Options

Polytex Cart Reader Cabinets offer versatile closed and open door configurations. The closed-door configuration ensures the most accurate reading capabilities for precise billing of items. The open-door configuration offers quick access for high-traffic areas and promotes a highly efficient work process for high-volume usage. Each option's setup can be tailored to meet specific textile management needs.



Closed-Door Option



Open Access Option

Technical Specifications

Cabinet Features

- 15" touchscreen with interactive UI
- Made of 1.2mm carbon steel
- Easy serviceability
- Automatically initiates cart reading
- LED light and sound alerts

UHF RFID Components

- Tag quantity supported: up to 500
- Full cart reading: up to 10 seconds
- Outpower: 33dbm±1dBm

Physical Dimensions

External dimensions: 2205mm (H) x 1220mm (W) x 1450mm (D)

Internal dimensions: 1990mm (H) x 1000mm (W) x 1300mm (D)

Electricity: 230V, 50Hz

SMART CABINET

STREAMLINE TEXTILE MANAGEMENT WITH AUTOMATED SMART CABINETS

Polytex Smart Cabinets streamline inventory tracking and reduce stockouts and overstock situations. With Polytex Smart Cabinets, organizations can boost productivity, reduce costs, track usage, control inventory, and prevent theft or unauthorized access.

Feature Highlights

Polytex offers industrial-grade smart cabinet units suitable for storage of any type of flat, clean laundry, or personal clothing. All cabinets feature secure digital RFID access control and an intuitive user interface.



- **Adjustable Shelves**
Customize storage space based on size, type, and quantity of workwear.
- **Optional Hanging Space**
Replace some/all shelves with rods to hang items.
- **Automatic Door Locks**
Prevent unauthorized access and removal of textile items.
- **Industrial Grade Design**
Made of sturdy, long-lasting, and easy-to-clean metal.
- **UHF RFID Technology**
Track movement of textiles in and out of the cabinet.
- **Remote Monitoring**
Monitor status of cabinet and track inventory levels remotely.
- **Security Compliance**
Complies with ISO-27001 and SOC2 security mechanisms to ensure your data is safe.

Configuration Options

Polytex Smart Cabinets offer flexible configuration and shelving to fit diverse textile needs. Shelf height can be easily adjusted to store delicate linens such as sheets and tablecloths, as well as bulky textiles such as towels and blankets. Cabinets can also be configured with hanging space for storage of shirts, aprons, and personal clothing.



Technical Specifications

Cabinet Features

- 14" touch screen with interactive UI
- Adjustable shelves
- Flat linen capacity: up to 300 RFID tagged textile items
- Supports hanging of items (capacity depends on the items)
- Cabinet material: 1.2mm carbon steel
- Easy serviceability

UHF RFID Components

- Tag quantity supported: up to 250
- Reading time: up to 10 seconds
- Outpower: 33dbm±1dBm

Physical Dimensions

External dimensions: 2031mm (H) x 554mm (W) x 1099mm (D)

Internal dimensions: 1690mm (H) x 480mm (W) x 982mm (D)

Shelf dimensions: 58mm (H) x 440mm (W) X 980mm (D)

Electricity: 230V, 50Hz

INVENTORY MANAGEMENT

INCREASE EFFICIENCY AND REDUCE ERRORS TO ENSURE ACCURATE STOCK LEVELS

Polytex enables your organization to digitize and automate all textile and flat linen inventory management processes. These solutions ensure efficient stocktaking, accurate traceability, and increased productivity, with less human error and lower costs.

Tabletop Reader

The Polytex Tabletop Reader accelerates stocktaking by enabling fast and accurate scanning of textile items. With a tabletop reader, inventory managers can reduce manual labor and human error. The Polytex Manager app displays real-time data to enhance visibility into stock levels, and ensure timely restocking.



- Efficient Operation**
Quickly scan and record large quantities of textile items.
- Real-time Visibility**
Monitor stock levels, track inventory movement, and get notifications when items are running low.

- Accurate Scanning**
Read tags automatically to reduce the risk of human error.
- Cost Savings**
Reduce the need for costly human labor and eliminate hours of manual work.

Hand-held Scanner

The Polytex portable, hand-held, rechargeable scanner is a versatile tool for improving textile management efficiency, offering a fast, convenient, and reliable method for scanning textiles onsite. Polytex hand-held scanners provides real-time updates, ensuring inventory stock levels are always accurate.



Device Features

- Tough 5.5" TFT-LCD (720x1440) touchscreen with backlight
- Android 10.0 operating system
- Rechargeable C batteries

UHF RFID Components

- Reading distance: Up to 20m (tag and environment dependent)
- Circular antenna (4dBi)

Physical Dimensions

Dimensions: 166mm (H) x 79mm (W) x 31mm (D) ±2 mm

Net weight: 600g (including battery & wrist strap)

Polytex Manager App

The Polytex Manager app integrates seamlessly with the Tabletop Reader, Hand-held Scanner, and Polytex Total Care cloud-based, workwear management system. The Polytex Manager app records scanned items with precision and instantly updates inventory data in the Total Care Manager software application to ensure complete visibility and control over all inventory management operations.



Select Language | Add/Edit Items | Quick Scan | Clean/Soiled | Location Supply | Alerts | Device Settings

PROTECT TEXTILE ASSETS WITH RFID DOORWAYS

Polytex Doorways minimize theft and unauthorized removal of textile assets from your facility. This UHF RFID solution provides hospitals and hotels with an added layer of security, and integrates seamlessly with the Polytex Total Care management system.

Feature Highlights

Polytex utilizes UHF RFID technology to detect textiles tagged with RFID labels, ensuring accurate tracking of textiles entering or leaving the premises. The system triggers an alert when unauthorized items are detected so action can be taken to prevent losses. The Polytex Doorway integrates seamlessly with the Polytex Total Care Manager inventory management system and provides comprehensive security for all textile assets.



- Built-in Antenna**
Receives a signal from RFID tags and sends the signal to the UHF RFID reader.
- UHF RFID Readers**
Scan RFID tags attached to items to identify unique item numbers.
- Doorway Alarm**
Triggered when an unauthorized tagged item passes through.
- Movement Tracking**
Track movement of workwear in and out of the designated work area.
- Real-time Detection**
Identify unauthorized items entering or leaving the facility.

Technical Specifications

Device Features

- Configurable alarm and lights
- Easy floor mounting
- Beep and LED alerts when item is detected
- Configurable alerts

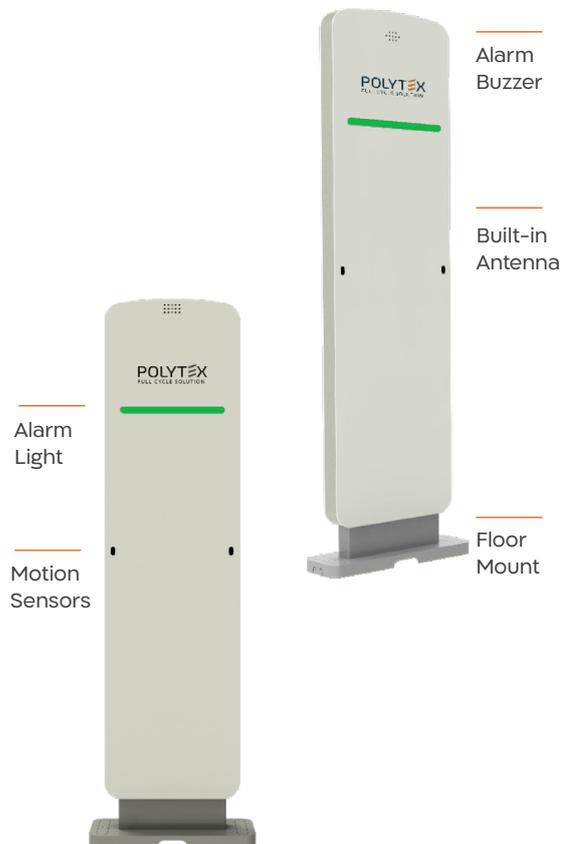
UHF RFID Components

- Reads up to 20 tags at a normal walking speed
- Suitable for doorways up to 3m wide

Physical Dimensions

Dimensions: 1495mm (H) x 450mm (L) x 180mm (D)

Electricity: 230V, 50Hz

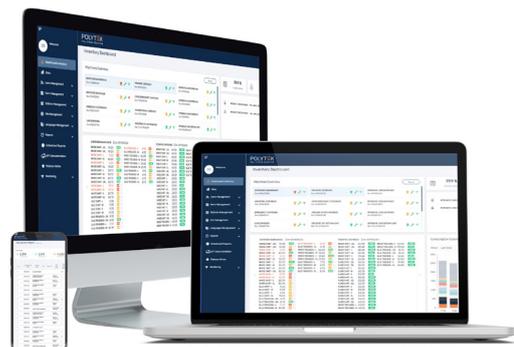


Polytex Total Care Manager

Polytex textile management and workwear management products are all controlled, monitored, and tracked by the Polytex Total-Care Manager intuitive web-based management software application. Total Care Manager connects to all dispensing and return units and enhances your workwear usage tracking and inventory.

Key benefits include:

- **Item Permissions**
Assign workwear items to specific groups and individuals based on role and consumption needs.
- **Inventory Management**
Monitor and control workwear inventory levels according to type of workwear, color, size and popularity.
- **Consumption Reports**
Track daily dispensing and return patterns, identify peak consumption times and control laundry service costs





Polytex Technologies, founded in 2003, is a global leader in workwear and textile management solutions. The company offers automated workwear dispensing and return units integrated with a cloud-management system, and an automated flat linen management solution, both featuring advanced software. With over 5,000 installations worldwide, Polytex drives digital transformation in industries such as healthcare, manufacturing, hospitality, and fitness centers, optimizing workwear and textile management processes.

Contact Us

For more information about Polytex products and services, visit our website at: www.polytex-technologies.com



To contact a Polytex sales representative, send an email message to: info@polytex-technologies.com