



# **BoxPicker** — Automated pharmacy storage system

BoxPicker is part of an integrated end-to-end solution, consisting of hardware and software, that manages to store, monitor, and optimize the inventory of all forms of medication within the hospital.



## BoxPicker — Automated pharmacy storage system

BoxPicker controls and manages medication from wholesaler to patient. The system provides pharmacies with secure, high-density storage of medications—controlling access, improving pharmacy workflow efficiency, and expediting the picking process.

This high-performance system significantly minimizes the need for static shelving and is a robotic alternative for vertical carousels and refrigerated drug storage.

BoxPicker fully automates medication storage and retrieval, which not only eliminates picking errors and increases safety at dispense but also creates a more efficient pharmacy workflow, allowing the pharmacy staff to focus on revenue-generating tasks and spend less time locating, picking, and verifying medications.

«The security of a single dispensing and loading point provides peace of mind regarding access and accountability.»<sup>1</sup>

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#### SOURCE

1 — Dave Webster, RPh, MSBA. Associate Director Pharmacy Operations, University of Rochester Medical Center

## Advantages

- Robot-assisted storage
- Modular design
- Transparent traceability

### Robot-assisted storage

- All items are brought to a single operator station for retrieval and verification.
- Picks the next order ahead of the user for enhanced picking productivity.
- Multiple operator stations allow for simultaneous operations, improving efficiency.
- Users have no exposure to internal moving parts, increasing safety.

### Modular design

- Allows for easy expansion options as pharmacy needs change and grow.
- Versatile configuration options allow for an improved return on investment.

### Transparent traceability

- Restricted access as well as scan-in and scan-out technology decrease errors.
- Password-protected operator access ensures inventory control and audit capabilities.

«[...] The BoxPicker has allowed our storeroom staff to focus more on critical service issues and improve our efficiencies around managing stock.»<sup>1</sup>

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## Functionalities

- 1 Controlled access**  
 Access one single box at a time to eliminate picking errors.
- 2 Barcode verification**  
 Scan in and scan out technology increases safety at dispense.
- 3 Configurable workstation**  
 Workstations can be used simultaneously on both sides.
- 4 User verification**  
 Password protection ensures inventory control and audit capabilities.
- + Emergency support**  
 The inventory is fully accessible in the event of a power failure.
- + Modular design**  
 Storage of articles with similar or dissimilar temperature requirements is possible.

# Individual configuration

Every pharmacy has different demands. BoxPicker can be configured from a minimum of three modules, including the possibility to have several work stations and modules for different temperature requirements.

## Modules

Full modules accommodate boxes for standard-sized items and four high-capacity drawers for larger items.

Workstation modules combine a computer, barcode scanner, label printer and four access drawers for loading and unloading.

The following options are available for configuration.

### Operator stations

Supports additional operator stations for simultaneous system access on the same or opposite side of BoxPicker.

### Ambient modules

Store unit doses and bulk medications that do not require special handling or temperature control.

### Dual-temperature modules

Eliminate the need for separate pharmacy refrigerators by storing temperature-sensitive items in a refrigerated half-module.

### Fully-refrigerated module

Replace standard pharmacy refrigerators to streamline workflows and improve inventory control for all of your refrigerated medications.



## Workflows

BoxPicker has been designed to eliminate the need to store medications manually. It allows pharmacists to focus on clinical tasks and spend less time locating, picking, and verifying medications.

### Loading



**1** · A technician logs into the BoxPicker operator station and selects the «Load» option.

**2** · A technician scans the medication to be loaded and enters the quantity and expiration date.

**3** · BoxPicker retrieves the appropriate medication box based on space availability and delivers the box to an access drawer at the operator station.

**4** · Once the box has been delivered, the technician opens the access drawer, scans the medication to be loaded and places it in the assigned location.

## Dispensing



**1** • A technician logs into the operator station and selects an order received through an interface with the hospital's information system and/or ADC<sup>1</sup> vendor.

**2** • BoxPicker picks only the correct medication box and places it in a drawer at the operator's station.

**3** • Once the box has arrived, a green light indicates the drawer is unlocked and can be opened.



**4** • A technician then picks the correct medication from the box and scans the product barcode for verification.

**5** • Once the medication has been scanned and confirmed, the inventory quantity is updated in the system.

**6** • While the technician scans one product out, BoxPicker is already retrieving the next medication box to be dispensed.

### SOURCE

1 — Automated Dispensing Cabinet

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