McKESSON Canada

# ROBOT-Rx


## Key Benefits

- **Increase filling accuracy to 99.9%[1, 2, 3]**
- **Cut pharmacist checking labor by 90%[1, 4]**
- **Reduce technician labor by 72%[2]**
- **Cut missing medications by 92%[4]**
- **Trim inventory by 10-20%[3, 5]**
- **Lower expired medication costs by 54%[4]**

## Increase Safety, Efficiency, and Inventory Control with Automation

The ROBOT-Rx® system is the world's leading hospital pharmacy robotics system. Using bar-code scanning technology, ROBOT-Rx automates the storage, picking, returning, restocking, and crediting of more than 90 percent of a hospital's daily unit-dose medications.

Inserting patient-specific medications in envelopes or cassettes, ROBOT-Rx prevents picking errors, manages unit-dose inventory, and frees pharmacists and technicians from mundane, repetitive tasks so they may support more productive clinical activities.

The ROBOT-Rx system uses advanced workflow software to perform cart fill, first dose, and multi-site filling operations as well as unit-based cabinet restocking, and supports point-of-care systems using bar-code verification. Typically, ROBOT-Rx provides a return on investment within two years.

1 Shack, J., Tulloch, S. (2008), *Integrated pharmacy automation systems lead to increases in patient safety and significant reductions in medication inventory costs* [Shore Memorial Hospital] (Case Study). Fairport, NY: Shack & Tulloch, Inc.

2 McKesson Automation (2008), *Nursing, pharmacy benefit from ROBOT-Rx medication dispensing solution* [Evergreen Hospital Medical Center] (Case Study). Cranberry Township, PA: McKesson Automation, Inc.

3 McKesson Automation (2008), *Patient safety thrives in rural Tennessee hospital following pharmacy automation conversion* [Cookeville Regional Medical Center] (Case Study). Cranberry Township, PA: McKesson Automation, Inc.

4 Shack, J., Tulloch, S. (2008), *Integrated pharmacy automation systems lead to increases in patient safety and significant reductions in medication inventory costs* [Comanche County Memorial Hospital] (Case Study). Fairport, NY: Shack & Tulloch, Inc.

5 McKesson Automation (2008), *MountainView gains dual benefits of patient safety and significant cost savings through automation* [MountainView Hospital] (Case Study). Cranberry Township, PA: McKesson Automation, Inc.

# ROBOT-Rx

## Product Specifications

### Description:

The ROBOT-Rx system can be configured to meet a hospital's unique floor space and operational needs.

Core system components include:

- Unit-dose medication storage cell (several sizes of linear and octagonal designs)
- Return racks for restocking medications
- Multiple PCs that perform server, control, interface, database, and workstation functions
- Multi-directional pedestal scanner
- Conveyor belt system and attached bar-code scanner to transport patient drawers

### Envelope Delivery System

The optional Envelope Delivery System dispenses medications into patient-specific envelopes instead of cassettes. This system operates unattended and reduces labor requirements by eliminating two-thirds of the process steps. The Envelope Delivery System streamlines simultaneous processing of cart fill and first doses, and facilitates multi-site filling.

### Connect-Rx

ROBOT-Rx is powered by the Connect-Rx® software platform. Connect-Rx software interfaces with more than 85 pharmacy information systems, plus all of McKesson's Automation- and Horizon-platform solutions.

## Fully Automated Patient-Specific Medication Filling

The ROBOT-Rx system establishes the essential bar-code-based medication foundation necessary to increase medication safety, improve pharmacy productivity, and lower costs. McKesson ROBOT-Rx is the most widely adopted robotic dispenser in Canada, issuing over 25 million error-free doses each year.

**Ultra-Reliable Filling**
The ROBOT-Rx system uses unit-dose bar coding to ensure the greatest possible accuracy. The system can store more than 25,000 medications—practical storage for up to three days of inventory. The robot accommodates more than 98 percent of all drug forms, including tablets, capsules, syringes, pre-packaged liquids, vials, ampoules, and patches. Patient-specific medications are placed into cassettes or envelopes to support cart fill, first dose, and multiple-site filling operations. The ROBOT-Rx also supports unit-based cabinet restocking.

**Advanced Workflow**
ROBOT-Rx interfaces with the pharmacy information system. Using Fill Mode logic functionality, the robot aggregates data from all installed McKesson automation technology. The system automatically prioritizes incoming medication orders and directs filling to the most efficient process. The dispensing logic also enables real-time inventory management and dispensing control across all unit-based AcuDose-Rx® automated cabinets.

**Reduced Pharmacist Check**
Hands-free medication scanning and recording of quality insurance data further reduce checking time.

**Superior Inventory Management**
Via Connect-Rx software, which aggregates data from other McKesson Automation technologies, ROBOT-Rx provides a real-time, enterprise-wide picture of medications stored, dispensed, credited, and administered through the system. The robot continuously tracks all online and offline inventory, checks itself for expired and slow-moving medications, and generates restocking reports. ROBOT-Rx integrates with the MedCarousel® system to fully automate central medication dispensing and inventory control functions.

**Automated Packaging**
The ROBOT-Ready™ PACMED™ high-speed packager completely automates oral solid packaging operations. The PACMED's intelligent, formulary level management capabilities enable electronic processing of orders, and increase productivity with less labor compared to other automated or conventional methods. PACMED's scalability—accommodating from 350 to 500 line items—and flexibility—three sizes of storage canisters and two sizes of packages with the ROBOT-Ready model make it ideal for any pharmacy environment.

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