SWISSLOG HEALTHCARE
PillPick® Automated Packaging and Dispensing System
PillPick is highly accurate and provides our nurses with the barcoded medications they scan to verify the “five rights” at the bedside. PillPick is an important part of our efforts to establish a safe medication-use system.”

- Robert Begliomini, Administrator, Pharmacy Services, Lehigh Valley Health Network

PillPick Automated Packaging and Dispensing System

PillPick is the only pharmacy automation system that can provide unit-dose packaging, storage and dispensing — making it a completely automated solution, from manufacturers’ packaging to patient-specific dispensing.

PillPick allows pharmacies to increase picking, packaging and dispensing efficiency, eliminate medication errors and improve patient safety.

Advantages

- **Fully Automated** – from manufacturers’ packaging to patient-specific dispensing
- **Advanced Design** – two robots support task redundancy and productivity
- **Serialization** – the PillPick system encodes each bag produced with a unique serial number and associated NDC to make a Drug Supply Chain Security Act (DSCSA) compliant Product Identifier
- **Overwrap Module** – automates unit dose packaging and bar coding of bulky containers and non-solids for improved control and traceability
Features and Benefits

Smart Technology
Fully automates packaging, storage and dispensing steps for complete medication management

Unit-Dose Packaging
Ensures complete traceability of medication from original packaging to the patient

AutoPhial™ Overwrap Module
Boosts pharmacy efficiency by automating the unit-dose packaging of vials, cups, ampoules and syringes

Barcode Verification
Eliminates opportunity for medication errors during packaging and dispensing

High-Density Storage
Securely stores up to 51,060 unit doses*, or 145 doses per square foot

Discrete Packaging and Dispensing Modules
Support simultaneous processing and improve productivity

Patented PickRing®
Gives quick visual reference of medication orders for caregivers

Archive Process
Stores images of all medications packaged through the system for future verification

Secure Medication Loading
Verification replaces pharmacist check upon dispense*, reducing work-load by as much as 50%1

Automatic Medication Returns
Eliminate extra processing steps and reduce waste

* Where allowed by State Board of Pharmacy
* Indicates maximum capacity, which is not typical for most clients
1 Source: Nebraska Medical Center case study data
Pharmacy to Nursing

1. Pharmacist checks medication canisters
2. Technician loads pill canisters or other drug typologies
3. PillPick picks and packages pills or other drug typologies
4. Discards broken, duplicate or incorrect medications
5. Transfers unit doses to storage

6. Receives order
7. Picks and verifies unit doses
8. Assembles PickRing
9. Dispenses PickRing
10. Technician transfers PickRing to patient floor

Nursing to Patient

1. Locate PickRing and bring to patient
2. Verify patient bar code
3. Administer medications
4. Return unused medications to pharmacy
“[PillPick] increases our efficiency, turnaround time and ultimately, patient safety because medications are not handled by humans and come out of the robot on ready-to-dispense rings, which are verified by barcode.”

- David Hitchcock, Pharmacy Supervisor, North Kansas City Hospital

**Pharmacy Workflow Efficiency Gains**

- Completely automates the dispensing process
- Processes and sorts returned medications and credits patient accounts
- Eliminates the need for secondary pharmacist check
- Reduces waste due to expired drugs

**Nursing Workflow Efficiency Gains**

- Keeps nurse at the patient’s bedside
- Can organize patient medication on ring in order of administration time
- Minimizes missing doses

*Where allowed by State Board of Pharmacy*
Integrated PillPick System Components:

Package

**Canister Workstation**
Transfer solid medications from manufacturers’ packaging into tamper-proof PillPick Canisters. Canisters are encoded with medication-specific information, written to a radio frequency tag (RFID) and output to a barcode label. Pharmacists verify medications in canisters before they are packaged.

**PillPick Canister Loader**
Accepts up to 12 canisters to convey into the packager, reducing the need for operator intervention.

**PillPick Packager**
Packages, bar codes and labels pills into unit doses, with a unique serial number for automated dispensing and beside verification.

**AutoPhial™ Overwrap Module**
Fully integrated module overwraps vials, syringes, ampoules and cups, allowing these items to be bar coded, stored and dispensed automatically, including on a PickRing.

Store

**PillPick Robots**
Two robots can run simultaneously, allowing for both multi-tasking and redundancy. One robot loads unit dose bags from the packager into the storage unit and then picks unit dose bags for loading onto the PickRing. The second robot retrieves returned unit dose bags from the Returns window and loads them into the storage unit.

**PillPick Storage Unit**
The automated, high-density, robotic warehouse that receives, loads, and stores up to 51,060 barcoded unit doses* including a combination of oral solids and vials, cups, ampoules and syringes.

Dispense

**PickRing**
Each PickRing supplies a 12 or 24-hour supply of barcoded, patient-specific medications on a patented, flexible, plastic ring, labeled for bedside verification. Each PickRing includes a summary label listing each drug.

PillPick is part of an end-to-end, integrated solution of Swisslog equipment and software that controls and manages medication from wholesaler to patient. Swisslog solutions for medication packaging, storage and dispensing were inspired by the need for safer medication distribution practices:
- Improve legacy automation for medication packaging, storage and dispensing
- Reduce the risk of dispensing and administering the wrong medication
- Create a more efficient pharmacy workflow

* Indicates maximum capacity, which is not typical for most clients

---

PillPick and PickRing are registered trademarks of Swisslog AG. Swisslog systems may be covered by one or more patents. See swisslog.com/patents for details.

Swisslog Healthcare
healthcare.us@swisslog.com
800.764.0300
Canada: 877.294.2831 | 905.629.2400

swisslog.com/pillpick