



PillPick — Automated packaging and dispensing system

A completely automated solution, from manufacturers' packaging to patient-specific dispensing.





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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 with a unique serial number and barcode, to make sure the medication is always identified and traced.
- Overwrap Module — Automates unit dose packaging and bar coding of bulky containers and non-solids for improved control and traceability.
- Verification — The PickView Vision System verifies packaging accuracy and stores images of each dose.

PillPick Features



1 AutoPhial

Boosts pharmacy efficiency by automating the unit-dose packaging of vials, cups, ampoules and syringes.

2 High-density storage

Securely stores up to 51,060 unit doses, or 145 doses per square foot.

3 Unit-dose packaging

Ensures complete traceability of medication from the original packaging to the patient errors.

4 Secure medication loading

Medications are verified during the loading process which eliminates additional checks by the pharmacists.

5 Patented PickRing

Quick visual reference helps caregivers to avoid errors.

6 Automated medication returns

Extra processing steps are eliminated, which reduces waste.

+ Controlled access

Picking errors are eliminated by accessing a single box at a time.

+ Barcode verification

The opportunity for medication errors during packaging and dispensing is eliminated.

+ Independent packaging and dispensing modules

Simultaneous processing improves productivity.

+ Archive process

The PickView Vision System stores images of all medications packaged through the system for future verification.



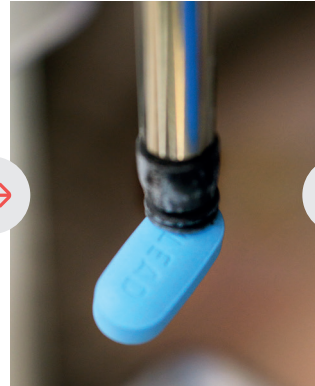
Pharmacy to nursing



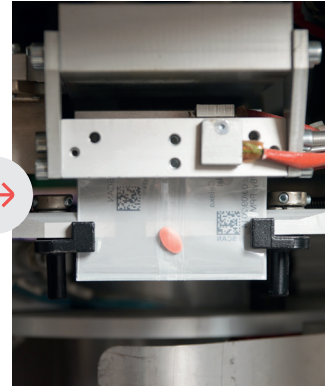
01 • The pharmacist checks medication canisters.



02 • A technician loads pill canisters or other drug typologies.



03 • PillPick picks and packages pills or other drug typologies.



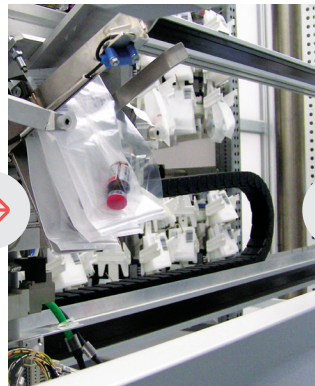
04 • PillPick discards broken, duplicate or incorrect medications.



05 • Transfers unit doses to storage.



06 • The pharmacy receives the prescription.



07 • Unit doses are picked and verified by the system.



08 • The therapy is assembled and medications are gathered into a plastic ring.



09 · The patient-specific therapy rings are dispensed.

10 · A technician transfers PickRing to patient floor.

Nursing to patient



01 · A nurse locates the PickRing and brings it to the patient.

02 · The nurse verifies the patient barcode ...

03 · ... and administers the medications.

04 · Unused medication can be returned to the pharmacy.

Pharmacy workflow efficiency gains



Completely automates the dispensing process.



Processes and sorts returned medications and credits patient accounts, so the inventory is updated in real-time.



Eliminates the need for secondary pharmacist check.*



Reduces waste related 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

BoxStation

Solid medications from the manufacturers' packaging are transferred to tamper-resistant PillPick canisters. The canisters are encoded with drug-specific information on an RFID tag and output on a barcode label. Pharmacists check the medications in the canisters before they are packaged.

AutoBox

Up to 12 canisters can be conveyed into the PillPicker (packager unit), which reduces the need for operator intervention.

PillPicker

Medications are packaged, barcoded and labeled into unit doses. A unique serial number enables automated dispensing and bedside verification.

AutoPhial

The fully integrated module wraps vials, syringes, ampoules, and cups so that these items are barcoded, stored, and dispensed automatically.

Store

PillPick robots

Two robots can work simultaneously, which enables multitasking and redundancy. One robot loads unit-dose bags from the PillPicker into the DrugNest

(storage unit) and then picks unit-dose bags for loading onto the PickRing. The second robot picks up returned unit-dose bags from the return window and loads them into the DrugNest.

DrugNest

The automated, high-density robotic warehouse 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 24-hour supply of barcoded, patient-specific medications on a patented, flexible, plastic ring, labeled for bedside verification. Every PickRing includes a patient 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

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