swisslog
inspired solutions

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 most advanced 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

- Safe – automates unit dose packaging and barcoding of most drug typologies for improved control and traceability

FEATURES AND BENEFITS

Smart Technology
Fully automates packaging, storage and dispensing steps for complete medication management
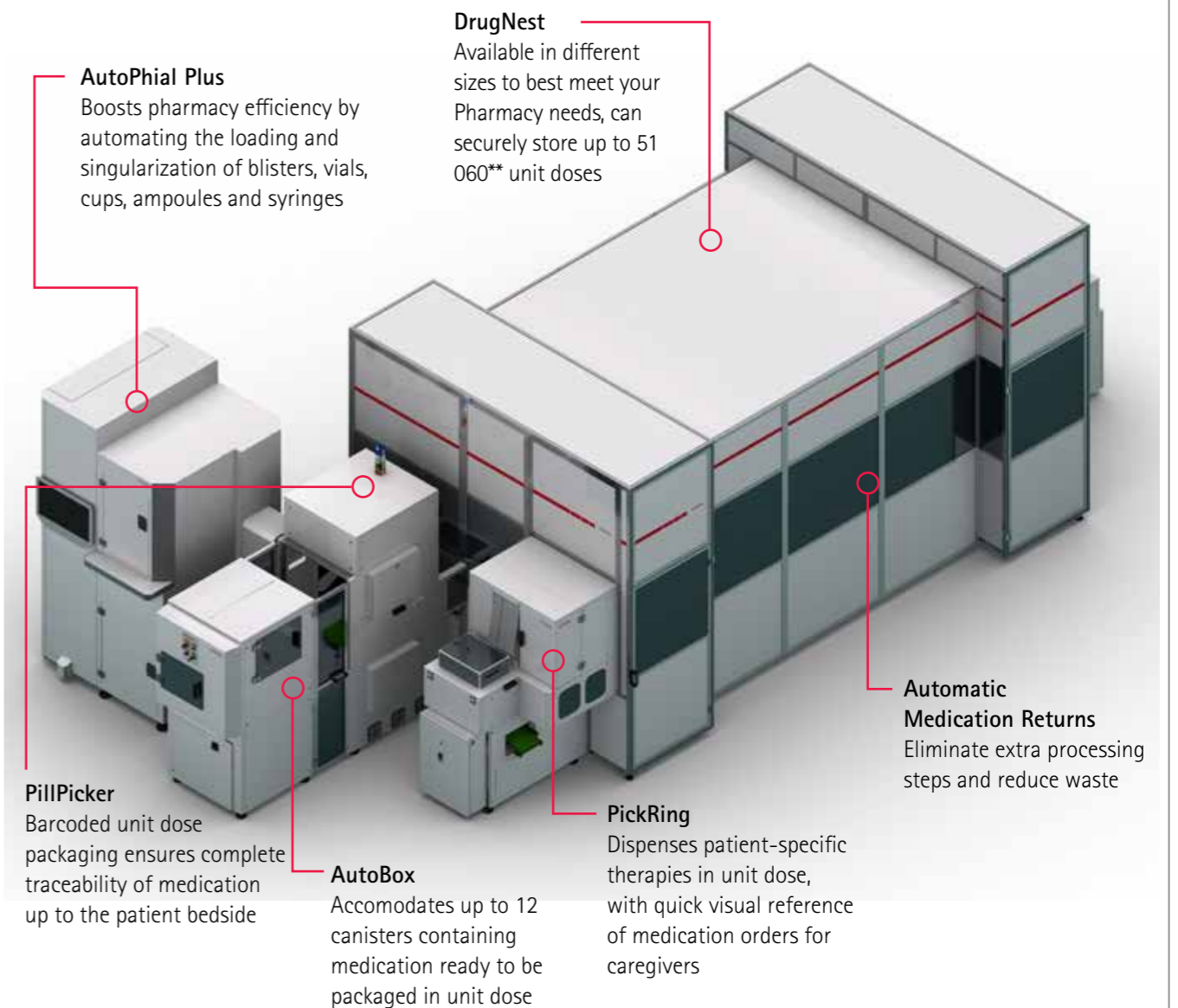
Barcode Verification
Eliminates opportunity for medication errors during packaging and dispensing

Discrete Packaging and Dispensing Modules
Support simultaneous processing and improve productivity

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

DrugNest
Available in different sizes to best meet your Pharmacy needs, can securely store up to 51 060** unit doses

AutoPhial Plus
Boosts pharmacy efficiency by automating the loading and singularization of blisters, vials, cups, ampoules and syringes

Automatic Medication Returns
Eliminate extra processing steps and reduce waste

PillPicker
Barcoded unit dose packaging ensures complete traceability of medication up to the patient bedside

AutoBox
Accomodates up to 12 canisters containing medication ready to be packaged in unit dose

PickRing
Dispenses patient-specific therapies in unit dose, with quick visual reference of medication orders for caregivers

* With PickView, the optional vision system embedded into PillPicker

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

PHARMACY TO NURSING

1. Pharmacy technician fills the medication canisters and a pharmacist cross checks

2. Pharmacy technician loads canisters with medication into the system

3. PillPick picks and packages most drug typologies

4. With PickView (optional vision system) all broken, duplicate or incorrect medications are discarded

5. Unit doses are transferred to storage, stock levels are automatically updated and controlled

6. Orders are received and validated by pharmacist

7. The SinglePill Robot picks the unit doses according to the received prescriptions

8. PickRing adds the patient label, verifies the doses and assembles daily patient-specific therapy

9. PickRing dispenses the therapy to a ward box for Cart Refill or into a high priority box for STAT medications

10. Therapies are transferred to patient floor either manually or with automated transports solution by Swisslog. Our Pneumatic Tube Systems and Automated Guided Vehicles deliver items quickly and reliably, reducing manual labor and waiting times.

NURSING TO PATIENT

1. Locate PickRing and bring to patient

2. Verify patient barcode

3. Verify therapy barcode and administer medications to patient

4. Return unused medications to PillPick

> **"** [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

IMPROVEMENTS IN PHARMACY WORKFLOW EFFICIENCY

Completely automates the packaging and dispensing process

Processes and sorts returned medications

Eliminates the need for a pharmacist check on every unit dose dispensed

Reduces waste by reducing expired medications and returning unused ones into distribution process

IMPROVEMENTS IN NURSING WORKFLOW EFFICIENCY

Keeps nurse at the patient's bedside, with reduction to workload dedicated to medication management

Swisslog patented PickRing organizes patient medication in order of administration time

Supports administration process with quick visual reference and barcode check

PACKAGE

BoxStation

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.

AutoBox

Accepts up to 12 canisters containing loose oral solids to convey into PillPicker, reducing the need for operator intervention.

PillPicker

Packages, barcodes and labels medications into unit doses, with a unique serial number for automated dispensing and bedside verification.

AutoPhial Plus

Fully integrated module that processes a wide range of drug typologies to simplify and streamline unit dose medication packaging, labelling and storage. The integrated blister cutter is able to cut automatically up to 95%* of blister types into single units.

STORE

SinglePill Robots

Two robots can run simultaneously, allowing for both multi-tasking and redundancy. Robots can load unit dose bags from PillPicker into the DrugNest, can pick unit dose bags for loading onto the PickRing and can retrieve returned unit dose bags from the Returns window and loads them into the DrugNest.

Robots operativity is managed and optimized by the PillPick Manager software to guarantee maximum efficiency.

DrugNest

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

DISPENSE

PickRing

Each PickRing supplies barcoded, patient-specific medications on a patented, flexible, plastic ring, labeled for bedside verification. Each PickRing includes a summary label listing each drug in chronological administration order .

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

* From recent field tests performed in Europe. Data may vary based on the formulary of each specific site.
** Indicates maximum capacity, which is not typical for most clients

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