



PillPick — automated unit dose system

PillPick significantly enhances efficiency and reduces human errors, ultimately improving the quality of patient care while lowering operational expenses.

Better patient care starts with streamlined medication management.

Manual processes in hospitals are prone to errors.

Incorrect reorders, medication shortages, mispicks, expired medications – errors and inefficiencies that arise from manual work are exacerbated by the structural problem of staff shortages in the healthcare system. Nurses, who are under increased pressure to perform both administrative tasks and patient-centered care, are more likely to make mistakes that negatively impact patient recovery. Errors in therapy preparation in particular lead to additional treatments and adverse drug events. Longer hospital stays are the result. Costs for hospitals increase sharply, and the quality of patient care suffers.

Are you tired of inefficiencies and safety risks in your hospital’s medication workflow?

Automate your pharmacy.

Medication workflow and handling by caregivers at the point of care can be streamlined with just one automated solution.

Versatile and configurable, the pharmacy automation PillPick packs, stores and dispenses medications in unit dose format – providing a solution that enables maintaining the integrity of the manufacturer’s packaging until it reaches the patient.

Unit-dose medication management makes efficient use of pharmacy space, reduces human error, and enables medication traceability. Efficiency and safety of the entire medication management are improved. Close the loop.



PillPick — Key benefits

- **More safety:** Eliminates the possibility of errors during the dispensing phase.
- **Focus on patient care:** Decreases workload for nurses who manage and administer medications.
- **Cost effective:** Reduces waste and expiries of medications.
- **Streamlined workflows:** Minimizes medication-handling workload in pharmacies.
- **Optimizing space utilization:** Allows the pharmacy to use the available area more effectively.
- **Improves future logistics:** Provides extensive data on medication use.



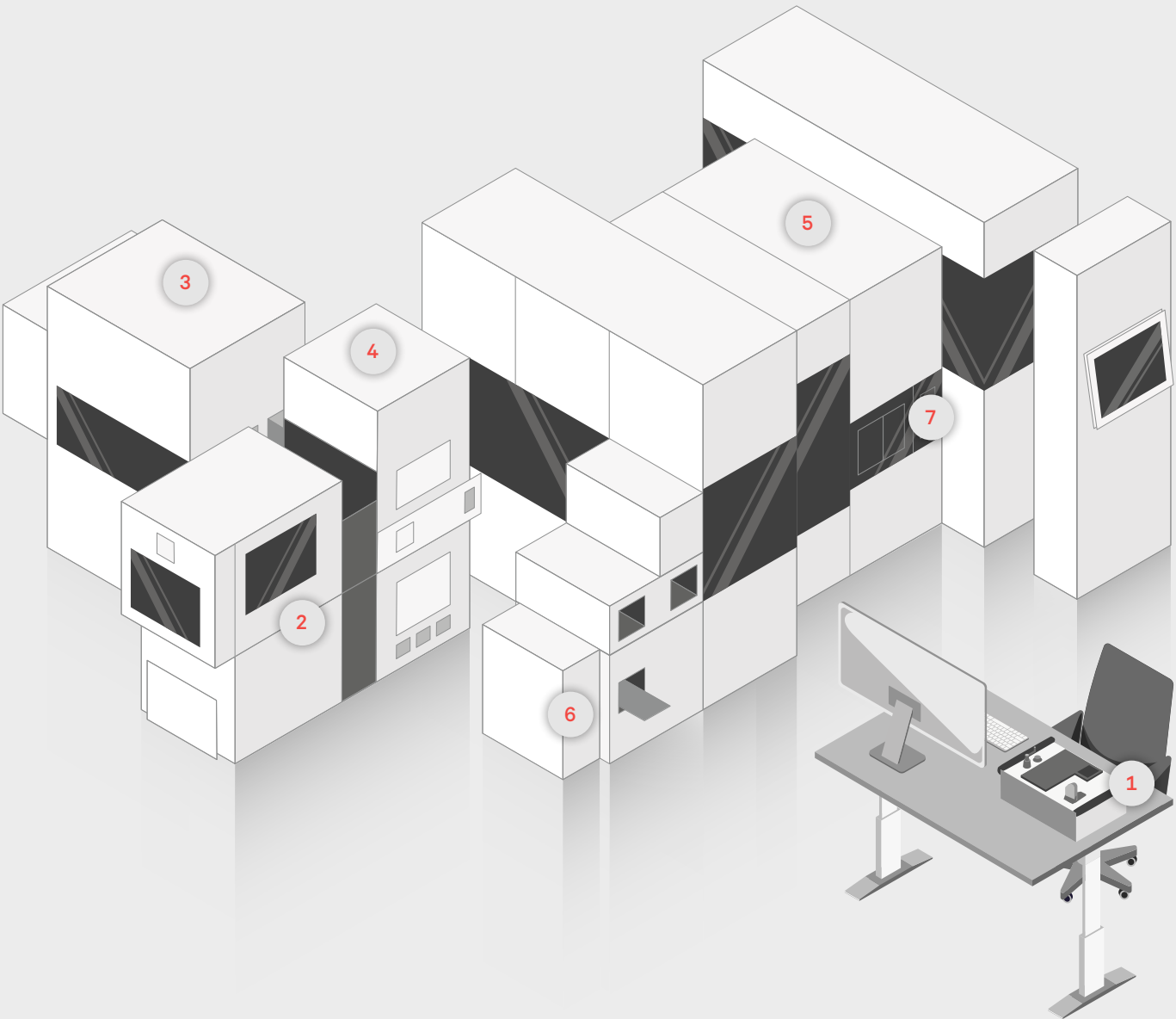
Integrated unit dose system

PillPick is a modular, flexible and high-density storage system that provides hospitals with a unique therapy format. Unit-dose medication management enables complete identification of drugs, facilitates and safeguards the administration process and reduces pharmaceutical waste.

Drugs are singularized, packaged, barcoded and recorded before they are loaded into the high-density storage to ensure traceability and chain of custody.

When the system receives a prescription order, it automatically collects the unit doses in chronological order of administration time and dispenses the necessary drugs in a patient-specific ring, ready for administration by a nurse.

The unit dose system can also receive ward stock or automated dispensing cabinet (ADC) orders.



Packaging

1 Canister workstation

Originally packaged medications are transferred to tamper-resistant canisters. Each canister is 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.

2 Canister loader

The packager unit can convey up to 12 canisters, reducing the need for operator intervention.

3 Overwrap module

The fully integrated module cuts blister strips and wraps a variety of formats, such as vials, ampoules, and cups for automatic barcoding, storing, and dispensing.

4 Packager

Single medications are packaged, barcoded and labeled into unit doses with a unique serial number for automated dispensing and bedside verification. It ensures complete traceability of the medication from the original packaging to the patient.

Storage

5 Storage

The automated, high-density robotic warehouse receives, loads, and stores more than 50,000 barcoded unit doses. Capacity options are determined based on each hospital requirements. The storage unit is equipped with two robots that can work simultaneously, thus enabling multitasking and redundancy. One robot loads unit doses from the packager into the storage unit and then picks unit doses bags for loading onto the dispenser. The second robot picks up returned unit-dose bags from the return window and loads them into the warehouse.

Dispensing

6 Dispenser

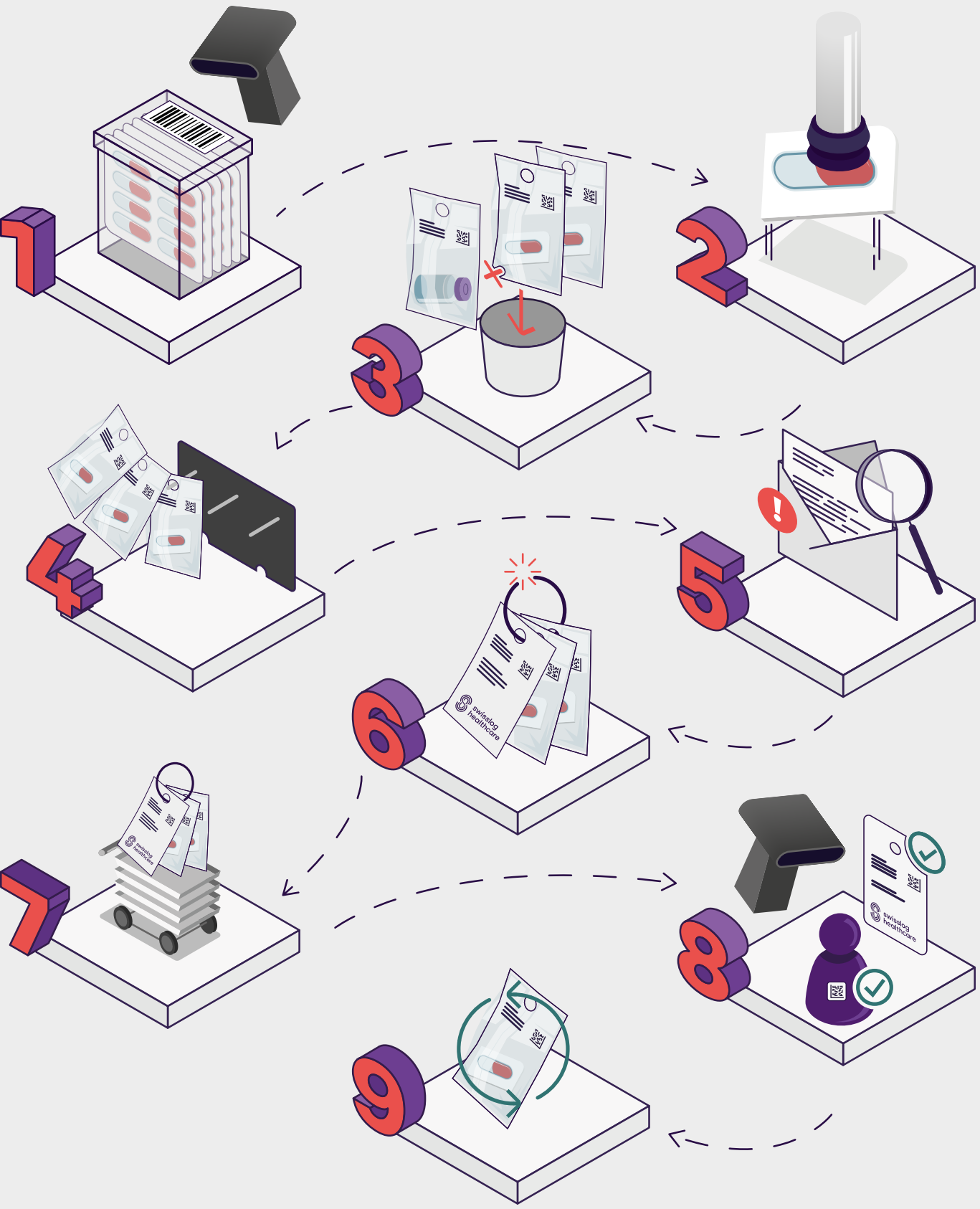
Each dispenser supplies a 24-hour supply of barcoded, patient-specific medications on a patented, flexible, plastic ring, labeled for bedside verification. Every therapy ring includes a patient label, listing each drug. Unit doses can also be dispensed for stock replenishment or for storage in automated dispensing cabinets on the wards.

Return

7 Return window

Medication that has been returned from the wards can be reloaded into the system and placed back into the inventory.

PillPick — Functions



- 1 Drug canisters are barcoded and recorded to secure traceability and chain of custody.
- 2 The system automatically picks, singularizes, and packages medications in unit doses.
- 3 The vision system detects and discards broken or incorrect medications.
- 4 Unit doses are automatically loaded in the storage.
- 5 When a patient prescription arrives, pharmacists review and validate it.
- 6 Unit doses are automatically picked and gathered in a patient-specific therapy ring.
- 7 Therapy rings are transferred to the wards.
- 8 Nurse cross checks patient and medication barcodes and administers the drugs at bedside.
- 9 Unused medications can be returned to the system.



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