

# The conveyance system

BY  
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To ensure optimum dispensing of medicines to the sales positions, the conveyance system is chosen taking into account not only the positioning and location of the automation solution selected in relation to the sales area, but also according to the constraints of the premises. To provide for all cases encountered, various manufactured systems with the most efficient components are offered.

## 1. THE DIFFERENT TYPES OF CONVEYANCE SYSTEMS

Conveyance system	Details
Horizontal	<ul style="list-style-type: none"> <li>■ Polyurethane conveyors (to food and pharmaceutical standards)</li> <li>■ Modular design for quick and easy installation</li> <li>■ Maximum speed 3 m/s</li> <li>■ Continuous non-sequential operation to minimise the time between two orders</li> </ul>
Referral system	<ul style="list-style-type: none"> <li>■ Mobile deflector installed on the conveyor</li> <li>■ Changes the path of boxes according to their destination (another conveyor, counter arrival receptacles, etc...)</li> </ul>
Vertical ascending	<ul style="list-style-type: none"> <li>■ Elevator or inclined conveyor</li> <li>■ For solutions located in the basement or on the ground floor</li> <li>■ Inclined conveyor: continuous operation, maximum speed 1.5 m/s</li> <li>■ Elevator: sequential operation, maximum speed 1.5 m/s</li> <li>■ Several sizes of elevator box available</li> </ul>
Vertical descending	<ul style="list-style-type: none"> <li>■ For upstairs machine</li> <li>■ 2 types of slides: straight or helical screw</li> <li>■ 2 diameters available for the helical screw</li> <li>■ Slider. The descent is by chute slowed by polymer sheeting</li> </ul>
Pneumatic system	<ul style="list-style-type: none"> <li>■ In partnership with the company AEROCOM</li> <li>■ On exiting the automation solution, the boxes are placed in a tube and are conveyed by air pressure</li> <li>■ Sequential function</li> </ul>

PHARMACY ROBOTIZED SOLUTIONS

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## 2. SMART DRIVE: EXCLUSIVE "INTELLIGENT" SOFTWARE TO MANAGE THE CONVEYANCE

Each of these conveyance systems enables smooth routing of the medicines to their destination without risk of damage.

The entire conveyance system is orchestrated by SMARTDRIVE software to optimally control its operation. SMARTDRIVE calculates the minimum operating time required for each conveyance before stopping it or to accept a new order.

This exclusive feature offers three important benefits:

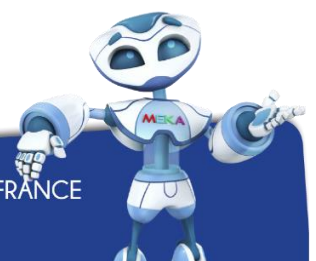
- Optimisation of routing time according to the size of the order and the place to where it should be directed,
- **Optimisation of component lifetime,**
- **Reduced energy bills.**

The computer control also allows monitoring and the ability to remotely adjust the operation of the conveyance via telemaintenance.

Conveyor belt



Conveyor belt + automated diverters





Straight or helical slides

Inclined conveyor belt



Slide box

