

## Conveying system

### 1. The various types of conveying system

Conveying types	Information
Horizontal	<ul style="list-style-type: none"> <li>Conveying belt in polyurethane (Approved for food and pharmaceutical standards)</li> <li>Modular design, easy and fast assemble.</li> <li>Maximum speed 3 m / s.</li> <li>Continuous operation and not in sequence to limit the time between 2 orders</li> </ul>
Switch system	<ul style="list-style-type: none"> <li>Mobile diverter installed on the conveying belt</li> <li>Changes the trajectory of the boxes according to their destination (other conveyor belt, arrival containers, etc ...)</li> </ul>
Vertical ascending	<ul style="list-style-type: none"> <li>Lift or inclined belt</li> <li>For solutions located in the basement or on the ground floor</li> <li>Inclined belt: continuous operation, maximum speed 1.5 m / s</li> <li>Lift: sequential operation, maximum speed 1.5 m / s</li> <li>Several possible dimensions for the lift</li> </ul>
Vertical down	<ul style="list-style-type: none"> <li>For machine located upstairs</li> <li>2 types of slides: straight or helical screw</li> <li>2 diameters available for helical screws</li> <li>Slider: square shaped system. The descent is process by a slowly drop into polymeric canvas.</li> </ul>
Pneumatic system	<ul style="list-style-type: none"> <li>In partnership with the AEROCOM Company</li> <li>At the end/exit of the robotised solution, products are placed into a tube and are conveyed by pressurized air</li> <li>Sequential operation</li> </ul>

- **Horizontal belt:** speed limited to 2 m / s to respect product packaging and reduce noise at intersections (knowing that our conveyor belts are designed to rotate up to 5m / sec)
- **Low angle conveyor belt:** speed of 1.5m / s
- **High angle conveyor belt:** speed of 1 m / s with a maximum angle of 38 °
- **Toboggans:** speed of descent 1m / s

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- **Lifts:** climb speed 1m / s
- **Pneumatic system:** average speed around 3 m / s roundtrip with a waiting time of a few seconds between each cycle. 9 seconds for 9 meters, a real average speed of 1m / s !!!)

## 2. SMART DRIVE: an exclusive "intelligent" software to drive the conveyor

Each of these conveying systems allows the smooth transport of products to their destination without the risk of being damaged.

- The entire conveyor system is orchestrated by the software SMARTDRIVE which allows to control optimally its operation. SMART DRIVE calculates the minimum operating time required for each conveyor belt before stopping, accelerating or accepting a new order.

**This exclusive feature has 3 important advantages:**

- **optimization of the routing time** according to the size of the order and the place where it must be conveyed.
  - **optimization of the life time** of the components.
  - **decrease of the energy bill.**
- This IT control also makes it possible to monitor and if necessary remote control by telemaintenance the operation of our conveyor system.

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# AUTOMATIC LOGISTIC

Tapis roulant



Tapis roulant avec aiguilleurs



Toboggan hélicoïdal



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Tapis à tasseaux



Slider



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