

Soly™

Mobile robotics for parcel processing

The Soly™ solution is based on a fleet of mobile robots and trolleys controlled by an Information System in real time. This system manages all movements of the shuttles, trolleys and objects transported.



Applications

Soly™ can be adapted to several applications:

- ① **Soly™ Sort:** **parcel sorting**, which can be carried out in any type of container and directly at the loading doors,
- ② **Soly™ Sequencer:** distribution preparation for B2C logistics operators in charge of parcel processing platforms for e-commerce. Soly™ is the first solution able to **automatically prepare the round** and present deliveries to the driver in the right loading order. This principle has been tested in the postal sector and is fully transposable to other order preparers for **preparing / sequencing batches of products** (ex: retailers, pharmaceutical industry).
- ③ **Soly™ Move:** processing **extra large parcels**, which cannot be sorted automatically and require heavy-duty and repetitive handling.
- ④ **Soly™ Kart:** preparing for store delivery for any company which must transport objects from one location to another (pharmaceuticals, supermarket distribution, etc.),

Benefits

- Easy to set-up and move, no fixed infrastructure required, unlike the existing built-in systems, which are large and rigid,
- The operating area can be shared with other activities according to the time of day,
- Easy to adjust the number of robots used according to high and low peaks in the workload
- Less musculoskeletal disorders among staff and reduced personnel turnover,
- The capability to simulate the project and adjust the configuration prior to starting operations.



Characteristics

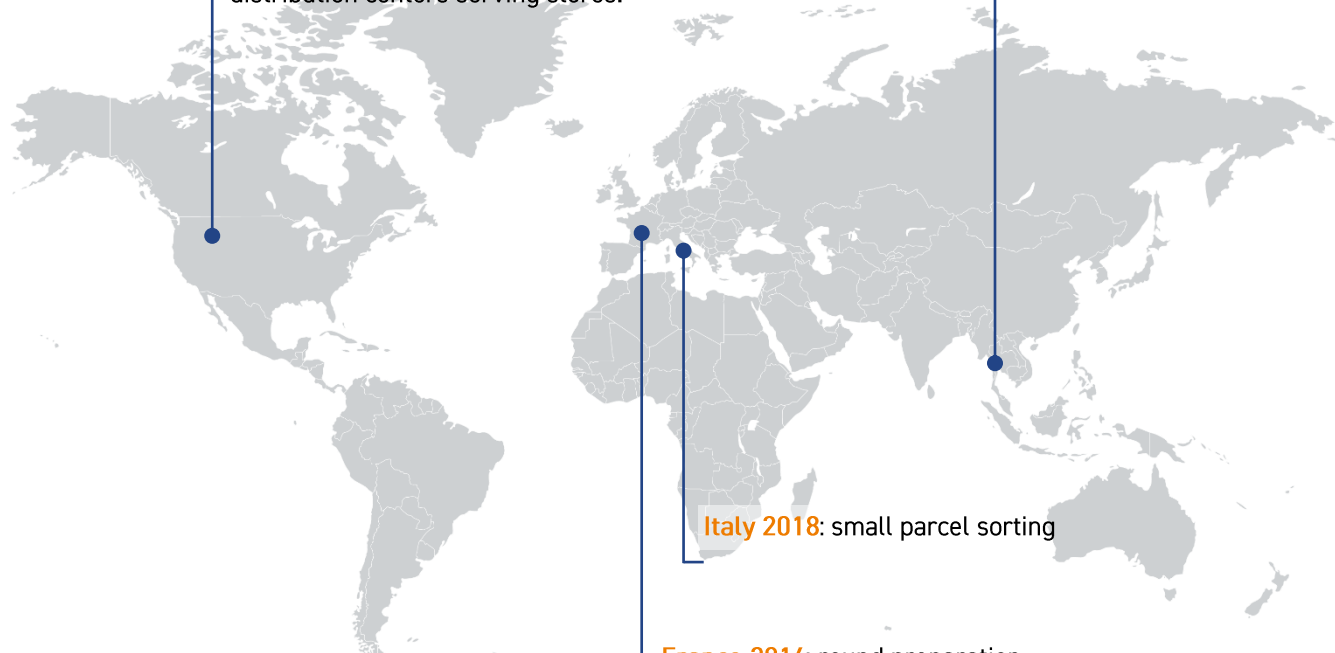
- Soly™ is managed by an information system, which can allocate assignments to robots, locate robots and products at all times and act as an interface with the customer's systems.
- Soly™ mobile robots can handle any type of load (up to 350 kg) to a very high level of precision.
- Thanks to the flexibility of the Soly™ system, new applications are easy to integrate.

References

United States 2017: optimization on the preparation of the parcels of a distribution leader for dispatch, before handling the parcels over to delivery operators.

2018: improved stock management thanks to the automated replenishment of the distribution centers serving stores.

Asia 2017: test for sorting in bags, 11 robotic shuttles, 40 containers organized over less than 90 m².



Italy 2018: small parcel sorting

France 2016: round preparation application.

2018: sorting of large parcels at Beaune on a DPD site.



SEQUENCER



SORT



MOVE

- ▶ MAIL AUTOMATION
- ▶ PARCEL AUTOMATION
- ▶ LIFECYCLE SERVICES
- ▶ IT SOLUTIONS