# Soly<sup>™</sup>

Smart Mobile robotics for intralogistics automation

## Much more than an AGV

The SOLYSTIC solution based on a fleet of mobile robots handling objects (parcels, trays, products, etc.), managed in real time by an Information System.





# **APPLICATIONS**

# **Soly**<sup>™</sup> Sequencer

Automatic preparation of the parcels delivery round for parcels and B2C logistics operators.

The creation of product batches (e.g. home shopping delivery, shops refurbishment) for retailers and industry.



# Soly<sup>™</sup> Sort

Sorting of parcels, B2C packets, bundles, in any types of container (tray, roll, cardboard) based on delivery address automatic recognition.





## Soly<sup>™</sup> Move

The movement of bulky objects incompatible with traditional sorters.

Handling full bins on mail and parcels processing equipment.



### Soly<sup>™</sup> Cart

Dynamic trolleys and rolls handling



### **VALUE PROPOSAL**

- Dynamic behavior instead of "static" and repetitive paths
- Avoid heavy and repetitive manual tasks
- Improves efficiency and reduces operating cost
- Easy to set-up and move, no fixed infrastructure required,
- Operating area shareable with other activities
- Flexibility: configurations, peaks of volumes

- Possibility of automatic loading/unloading
- Using SOLYSTIC' SOSi™ software, we create a "digital twin" of any configuration, to simulate and adjust the behavior.



**Soly™** is managed by an information system, allocating assignments to robots and managing the traffic.

**Soly™** mobile robots handles any type of load with a high level of accuracy.

**Soly™** can be used for any type of bespoke application, according to your needs.

## **REFERENCES**

USA 2017: preparation of retail products for dispatch.

Portugal 2019:

Unloading trays with Soly<sup>™</sup>-based shuttles on SOLYSTIC's XMS ™mixed mail sorters.

Asia 2017: sorting into 40 containers organized over less than 90 m<sup>2</sup>.

France 2016: round preparation trial for DPD France.

2018: sorting of "large" and "odd shapes" parcels for DPD France.

2019: containers handling on Paris Airport Site with a variable number (40 to 80) of Soly™ robots.

June 2019: Award for a B2C products sorting centers based on a combination of SOLYSTIC's CST sorters and automatic handling realized by a fleet of Soly™ robots. Italy 2018-19: sorting of parcels, B2C products and bundles, with automatic recognition of delivery addresses

2019: Unloading trays with Soly™ based shuttles on SOLYSTIC's XMS™ mixed mail sorters.

Trays handling by Soly™ on SOLYSTIC's TOP2000 "flat mail" sorter.

### **TECHNICAL FEATURES**

Speed of mouvement	Configurable (e.g. 1.20m/sec)
Load capacity	Up to 200kg
Battery	Autonomy: 8h, automatic replacement and loading
Security	Safety Lidar, ultrasonic sensor
Precision of movement	≤1cm



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