

INNOVATION

Soly™ changes the game

In September, SOLYSTIC launched its new concept Soly™ and highlighted two main applications: delivery round preparation and parcel sorting.

SOLYSTIC has taken the ongoing circumstances of a robust and growing e-commerce marketplace to address the real challenges facing postal, express, e-commerce and transport operators today, specifically within the domain of parcel processing. The need for maximised efficiency, profitability, and ensured customer satisfaction has emerged.

As SOLYSTIC has acquired the experience of mail preparation for the postman's rounds, the company's parcel assessment focuses on last mile efficiency. However, parcel processing is even

challenge with parcels is that each one of them requires an individualised level of processing. By developing Soly™, SOLYSTIC decided to respond to this challenge. Each robot is associated to several trolleys and as the number of robots expands, the solution becomes increasingly productive. Soly™ is simple and fast to implement, truly changing the approach towards the parcel domain.

Currently, parcel processing is based on high physical demands and relies upon the memory of the drivers. Not only are they expected to memorise their route, they are also expected to manually lo-



tioned trays so that drivers simply fetch the items and load them. The end-result is better performance, reduced injuries and lower employee turnover.

"NO SPECIFIC INSTALLATION NO NEED FOR PRE-EXISTING EQUIPMENT"

Part of the originality behind Soly™'s flexibility is that she requires no specific installation; there is no need for pre-existing equipment, only a simple guidance system based on QR codes to the floor. Once the fleet of independent shuttles is organised, users are up and running for the preparation phase. Soly™ enables them to adapt their system, either expanding it during peak periods or reducing it over the slower ones.

"PRECISION TRACKING AND TRACING IS OFFERED FOR EVERY INDIVIDUAL OBJECT"

Soly™ is also an excellent solution for automatic parcel sorting in the large sorting hubs where she can sort objects directly into the sacks or other containers. With Soly™, precision tracking and tracing is offered for every individual object. Unlike the majority of existing systems, Soly™ stores the exact location of every parcel and makes it readily available at any given moment. This ensures the retrieval and arrangement of each object upon command and in accordance with destination instructions.

The ongoing industry challenge is to optimise parcel processing at every phase.

While Soly™ will be initially applied within the realm of delivery preparation and sorting, a broad range of purposes is conceivable, as her flexibility addresses numerous needs.



Furthermore, as organisations place emphasis on eco-friendly solutions, Soly™ is easy to configure in contrast to the large parcel sorting conveyors that must be kept running, even when activity is low. Soly™ runs only as needed and her fleet adjusts to fluctuating volumes, therefore saving energy and reducing costs.

SOLYSTIC developed Soly™ by merging its industry awareness with advanced robotic technology. With Soly™, parcel distributors are certain to achieve better performance and greater customer satisfaction. As she makes her debut, SOLYSTIC envisions widespread industry adoption of Soly™, THE optimised parcel processing solution. ■



more crucial due to greater associated logistics, customer demands, and space requirements. The current last mile process for parcels is entirely manual, giving Soly™ a remarkable amount of added value in the context of delivery rounds preparation.

"EACH PARCEL REQUIRES AN INDIVIDUALISED LEVEL OF PROCESSING"

Contrary to mail, where machines are able to handle objects in batches, the

cate, sort, and organise every parcel in the proper distribution order as they physically load them, one by one, onto the delivery truck. Clearly, this process is physically demanding, time consuming, inflexible and costly.

Soly™ automates sorting and preparation for last mile parcel delivery drivers. She sorts and arranges parcels in the correct delivery order so that the drivers simply load them before leaving for their rounds. Using a driver-oriented approach, she keeps driver priorities at the centre of her performance. The parcels are placed on ergonomically-posi-