



ROBOTIC SORTING



prime**vision**

part of the Movement Suite



INCREASING THE FLEXIBILITY AND ROBUSTNESS OF YOUR SORTING AND FULFILLMENT OPERATIONS

Prime Vision has developed the Robotic Sorting concept, which uses mobile robots, called Robins, to sort parcels in a variety of environments, including sorting centers and warehouses.

Traditional sorting systems tend to be static and lack the flexibility to adapt easily to changing needs. Robotic Sorting, on the other hand, can create a dynamic, future-proof operation by replacing fixed infrastructure with intelligent robots. This adaptable solution requires only an open floor space, allowing the Robins to quickly learn and navigate the layout.

OPEN AND FLEXIBLE

The robotic sorting solution was designed to have a lower start-up and operational cost than conventional "heavy metal" sorting machinery, making it accessible to businesses seeking a scalable and flexible strategy. With significantly reduced capital investment and easy setup at any location, Robotic Sorting offers an efficient alternative to traditional systems.

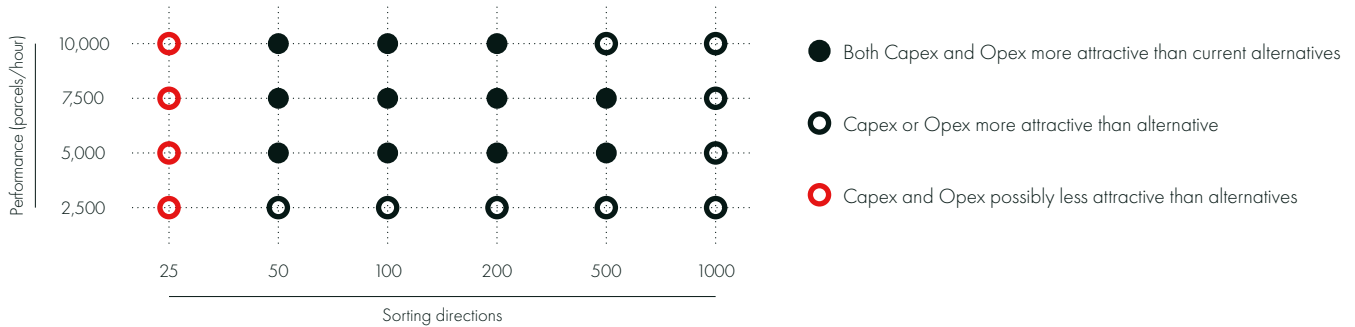
Flexibility also means building on an open design approach, ensuring seamless development and interoperability. This independence between hardware and software enables easy integration with existing systems, supporting hybrid configurations that combine traditional equipment with robotic technology.

HOW IT WORKS

This is how the system operates: An operator scans a parcel and manually places it on the conveyor atop the Robin, or an automated infeed system with a scanner loads parcels directly onto the conveyor. Once a parcel is detected, Robin identifies the destination based on barcode data, whether it's a zone within the warehouse or a specific chute in a sorting center. Robin then calculates the optimal route to reach its destination. Upon arrival, the parcel is either deposited into a chute, pallet box or onto a conveyor, ensuring efficient and accurate sorting.

RAPID AND ACCURATE

Compared to traditional setups, Robotic Sorting offers a cost-effective, accurate, and rapid sorting alternative. The chart below demonstrates the efficiency of different robot configurations, providing ideal throughput for various parcel volumes per hour.



THE BENEFITS SUMMARIZED

FLEXIBLE	SCALABLE	FINANCIALLY ATTRACTIVE
<ul style="list-style-type: none"> fast implementation (weeks instead of months) no decisive building requirements (existing buildings instead of building from scratch) quick and easy change of throughput capacity and/or sorting directions (adding / reducing robots) software/hardware independent 	<ul style="list-style-type: none"> easy extension of network through additional warehouse(s) within warehouse, additional volume and/or sorting directions can be dealt with by just adding more Robins 	<ul style="list-style-type: none"> significantly limited initial Capex due to asset-light infrastructure Opex due to reduction of labor and depreciation



smart vision, smart flow