ADDVERB

ZIPPY 30

ROBOTIC SORTER

Addverb's high-speed robotic sorter, Zippy works on the concept of grid-based ground markers to intelligently sort orders providing high sortation throughput. The flexible system can match demand surges and consumes less energy to optimise operations. With the help of our advanced Fleet Management System, which uses dynamic path planning algorithms, the SKUs are sorted with high accuracy.

Technical Specifications

General Specifications

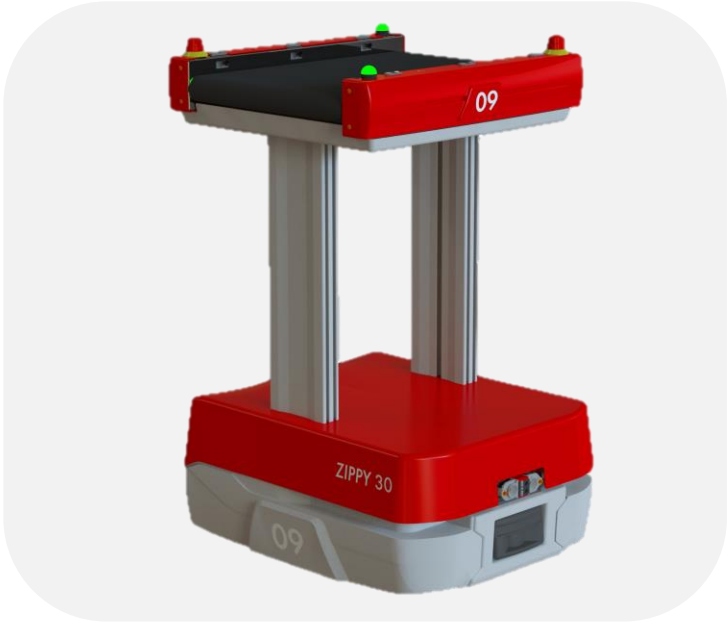
Max. Payload Capacity	30 Kg
Robot Dimensions	710 mm x 655 mm x 550 mm
Weight	24 Kg
Platform	Tabletop/ Floor
Max. Payload Dimensions	600 mm x 400 mm x 400 mm
Grid Size	1000 mm
Transfer Height	510 mm ~ 1000 mm
IP Class	IP20
Operating Temperature	+5 to +45 deg. C



Technical Specifications

Speed and Performance

Max. Operating Speed	2 m/s
Position Accuracy	± 10 mm
Turning Diameter	930 mm



Communication & Integration

Fleet Management Software	Yes
Integration with ERP	Yes
Integration with 3rd Party Systems	Yes
Communication Mode	Wi-Fi (802.11 a/b/g/n/ac, 2.4GHz, 5 GHz)

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Technical Specifications

Safety

Obstacle Detection Sensor	2D Laser
Parcel Detection Sensor	3 x Conveyor
Certification	CE Certified



Battery

Avg. Battery Runtime	3 ~ 4 Hours
Battery Specifications	LFP, 25.6V, 21Ah
Charging Time	24 Minutes (20% to 80%)
Battery Charging Cycles	2000 Charge Cycles

Attachment and Accessories

Sortation Attachment	Belt Conveyor
Charging Dock	Automatic Charging Station

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Key Benefits:

- Performs sortation up to 30,000 sorts/hour *
- Seamless integration with the existing ERP/WMS
- Reduced operation costs and higher productivity
- Lower upfront costs and faster ROI
- Saves space compared to traditional sortation
- Allows multilevel installations for higher throughput requirements
- Versatility in payload type handling in terms of weight, shape and size
- Easily upscale/downscale operations by adding or removing robots from the fleet

FEATURES

24/7 Unimpeded Operations

Zippy operates 24/7 with automatic charging. Equipped with advanced sensors and intelligent software they perform error-free sortation.

Intelligent Throughput Optimization

The system uses throughput optimization algorithms to maximise robot availability, charging cycles and manage path cycles.

Intelligent Software

Highly intuitive UI and configurable software allow users to study analytics like Zippy and system performance to improve operations.

Highly Flexible System

The flexible system can match demand surges and optimise operations to be cost-efficient.

Safety & Reliability

Automated system ensures safer and reliable warehouse operations with no single point of failure.

Quick Installation and Easy Scale-up

The system is easy to deploy and very fast to scale up with low upfront investment.

* Sorts/hour depends on the number of infeed points, sort destinations and number of robots

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