ADDVERB

# ZIPPY 40

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 | 40 Kg |
| Robot Dimensions | |
| Standard Belt Attachment | 765 mm x 655 mm x (875 ~ 1375) mm |
| Wide Belt Attachment | 1030 mm x 655 mm x (875 ~ 1375) mm |
| Weight | |
| Standard Belt Attachment | 120 Kg |
| Wide Belt Attachment | 135 Kg |
| Platform | Floor |
| Max. Payload Dimensions | |
| Standard Belt Attachment | 600 mm x 400 mm x 400 mm |
| Wide Belt Attachment | 800 mm x 600 mm x 400 mm |



# Technical Specifications

## General Specifications

| | |
|---|---|
| Grid Size | |
| Standard Belt Attachment | 1000 mm |
| Wide Belt Attachment | 1300 mm |
| Transfer Height | 800 mm ~ 1300 mm |
| IP Class | IP20 |
| Operating Temperature | +5 to +45 deg. C |



## Speed and Performance

| | |
|---|---|
| Max. Operating Speed | 2 m/s |
| Position Accuracy | ± 10 mm |
| Turning Diameter | |
| Standard Belt Attachment | 930 mm |
| Wide Belt Attachment | 1200 mm |

# Technical Specifications

## 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) |

## Safety

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



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# Technical Specifications

## Battery

| | |
|---|---|
| Avg. Battery Runtime | 4 Hours |
| Battery Specifications | LTO, 25.3V, 22Ah |
| Charging Time | 18 Minutes (20% to 80%) |
| Battery Charging Cycles | 10,000 Charge Cycles |

## Attachment and Accessories

| | |
|---|---|
| Sortation Attachment | Belt Conveyor |
| Charging Dock | Automatic Charging Station |



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## Key Benefits:

- Performs sortation of 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

Addverb Bot-Valley, Plot No.5, Sector-156
Noida, Uttar Pradesh-201310

automate@addverb.com

+91 9871590101