

Forward Sorting Process Simplified with UnboxSort

For a fast growing 3PL Brand

ABOUT THE CUSTOMER

Established in 2015, boasting over 100 hubs in India, and with a daily delivery volume of more than 3 million parcels, this company is one of the fastest-growing providers of express logistics services and end-to-end supply chain solutions in India.

Location: First Mile Pickup Hub located in Western India having high density of apparel manufacturing

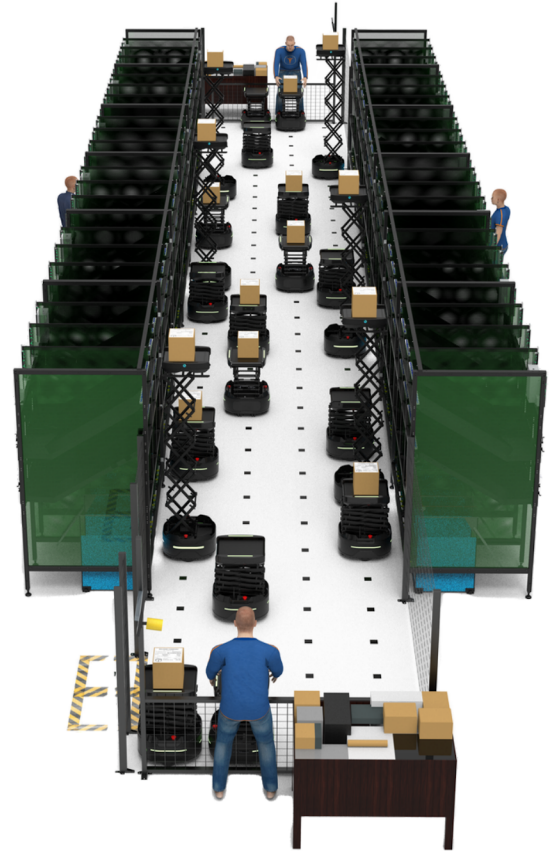
THE CHALLENGE

Post Covid, this growing 3PL saw its volumes growing 2X every 6 months and was looking for flexible and scalable sorting automation solutions that could be taken on RaaS Model. The manual process had lower sorting accuracy and higher turn-around time due to multi-tiered sorting. Pre-sorting was done manually into 6 trolleys, followed by further sorting of each trolley into secondary stations each catering to 24 locations.

The customer requested automated sorting of polybags and carton boxes within 140 unique destinations at a rate of 2000 packages per hour, with the special requirement that packages of high-load chutes be directly sorted into bags.

Industry	3PL
Process	First Mile Sorting
Throughput	2000 pph
No. of Robots (SR450)	23
Destinations	180
Racks Type	3 level; hybrid racks
Area	180 sqm.
Personnel (Feeding + Bag closing)	4 (2+2)

A linear segment layout was designed with feeding happening at both ends. For the feeding system, 2 personnel were deployed to manually scan the parcels and place them on the robot. 2 personnel were deployed to retrieve packages from the chutes & trolleys. To optimise the no. of robots deployed, battery swapping feature was added. 3-Level Hybrid Racks with Bottom level trolleys and top two level straight slide chutes allowed direct to bag transfer for high volume destinations.



BENEFITS

- **Productivity Improvement:** Direct end-to-end sorting by UnboxSort allowed minimising handling, scanning and movement which enhanced productivity per person by 3X. UnboxSort's simplicity of feeding process and interface enabled associates to perform near-perfect work. This increased customer satisfaction and retention and reduced internal order auditing and supervision costs.
- **Integrated eco-system with elaborate dashboards:** UnboxSort's control system and interfaces reflect the team's deep knowledge in all things sorting. The system allowed the customer to have higher visibility, flexibility and control while running the system to account for changes in network, load profile, parcel types etc. The analytics features also help generate necessary reports for extracting insights and trends for better decision making.
- **Scale up and Change Facilities Overnight:** Since installation on-site happened in a couple of weeks, the operations team didn't have to deal with major operational stoppages and disturbances. UnboxSort would also allow easy shifting to larger facilities when the capacity exceeds the limit of the current one.
- **Operational Costs Savings:** Vertical sorting allowed the customer to reduce the space requirement by 50% which directly impacts their expenses on rentals and utilities