

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 72.2%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/Day	Outbound/Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	132.5%	1,085	3,244	97.7%	62.4%	Improvement Needed
Distribution Center B	Dallas, TX	59.8%	2,930	2,695	95.2%	85.2%	Optimized
Distribution Center C	Atlanta, GA	65.8%	2,766	3,817	97.0%	80.6%	Optimized
Distribution Center D	Los Angeles, CA	52.5%	2,469	2,513	95.4%	63.3%	Improvement Needed
Distribution Center E	Newark, NJ	93.6%	1,815	1,976	96.9%	69.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment voice-
picking
system to
improve
accuracy to
99.8%

- Upgra
de WMS
integration
for real-time
inventory
visibility

- Add au
tomated
sortation
system for
small
package
handling

- Imple
ment
predictive
analytics for
demand-
based
staffing

- Consid
er AS/RS
system for
high-
velocity
SKUs