

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 74.4%
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	68.5%	2,418	2,326	97.3%	63.2%	Improvement Needed
Distribution Center B	Dallas, TX	48.8%	2,163	3,481	95.6%	65.8%	Improvement Needed
Distribution Center C	Atlanta, GA	95.3%	2,450	3,445	96.0%	70.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	88.7%	2,791	3,399	97.8%	87.3%	Optimized
Distribution Center E	Newark, NJ	56.5%	1,071	1,759	99.2%	85.3%	Optimized

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