

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 75.6%
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	91.9%	2,414	3,664	97.7%	61.0%	Improvement Needed
Distribution Center B	Dallas, TX	80.5%	1,350	2,849	95.7%	84.7%	Optimized
Distribution Center C	Atlanta, GA	56.6%	2,220	1,847	96.0%	79.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.2%	1,562	1,954	96.2%	87.4%	Optimized
Distribution Center E	Newark, NJ	99.3%	1,401	1,580	95.5%	66.1%	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