

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 76.4%
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	61.7%	1,471	2,716	95.6%	90.5%	Optimized
	Dallas, TX	66.0%	2,761	2,423	97.2%	88.9%	Optimized
Distribution Center B	Atlanta, GA	43.6%	1,699	2,865	98.6%	61.5%	Improvement Needed
Distribution Center C	Los Angeles, CA	57.8%	2,455	2,040	97.4%	78.2%	Improvement Needed
Distribution Center D	Newark, NJ	77.9%	1,445	3,592	96.4%	62.8%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement predictive maintenance for robotic arms

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