

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 21
Average Utilization: 80.3%
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	43.3%	1,796	2,766	97.9%	94.3%	Optimized
	Dallas, TX	82.8%	2,512	3,945	98.9%	67.9%	Improvement Needed
Distribution Center B	Atlanta, GA	37.4%	1,646	2,882	96.1%	87.2%	Optimized
Distribution Center C	Los Angeles, CA	81.7%	1,251	2,668	98.1%	88.4%	Optimized
Distribution Center D	Newark, NJ	80.7%	1,413	3,100	98.2%	63.6%	Improvement Needed
Distribution Center E							

Optimization Opportunities

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

picking
system to
improve
accuracy to
99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs