

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 67.9%
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	68.6%	1,746	2,387	95.3%	62.4%	Improvement Needed
Distribution Center B	Dallas, TX	48.6%	1,819	1,604	95.3%	60.8%	Improvement Needed
Distribution Center C	Atlanta, GA	106.0%	2,865	2,672	98.3%	65.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.6%	1,679	3,755	95.7%	72.8%	Improvement Needed
Distribution Center E	Newark, NJ	74.9%	1,358	1,671	95.8%	78.3%	Improvement Needed

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