

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 81.6%
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	54.3%	1,654	1,637	97.5%	88.2%	Optimized
	Dallas, TX	84.4%	1,763	3,519	99.3%	79.1%	Improvement Needed
Distribution Center B	Atlanta, GA	54.4%	1,828	3,288	97.9%	83.6%	Optimized
	Los Angeles, CA	117.5%	2,237	2,849	97.7%	65.5%	Improvement Needed
Distribution Center C	Newark, NJ	94.9%	2,770	3,838	97.5%	91.3%	Optimized

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