

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 85.1%
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	106.8%	2,737	2,211	97.6%	90.3%	Optimized
	Dallas, TX	55.3%	2,918	2,152	98.4%	84.9%	Optimized
	Atlanta, GA	61.9%	2,788	3,065	95.7%	85.3%	Optimized
	Los Angeles, CA	58.9%	2,063	3,820	95.3%	76.9%	Improvement Needed
	Newark, NJ	55.3%	2,587	2,148	98.1%	88.3%	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