

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 84.8%
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	59.2%	1,168	3,729	97.1%	87.5%	Optimized
	Dallas, TX	80.0%	2,478	1,940	98.6%	83.2%	Optimized
	Atlanta, GA	53.9%	2,638	3,448	99.0%	86.4%	Optimized
	Los Angeles, CA	64.7%	2,465	3,775	98.0%	84.3%	Optimized
	Newark, NJ	58.1%	1,972	2,091	97.0%	82.5%	Optimized
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