

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 87.7%
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	111.2%	1,782	2,173	97.6%	91.7%	Optimized
	Dallas, TX	70.5%	2,548	1,667	97.3%	83.3%	Optimized
	Atlanta, GA	72.1%	1,183	2,857	98.0%	86.4%	Optimized
	Los Angeles, CA	58.3%	1,245	2,091	96.1%	84.9%	Optimized
	Newark, NJ	57.8%	1,747	1,596	98.0%	92.3%	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