

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 81.3%
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	53.3%	1,295	3,132	98.3%	81.3%	Optimized
	Dallas, TX	94.6%	2,434	2,102	99.4%	82.1%	Optimized
	Atlanta, GA	104.8%	1,867	2,707	97.3%	80.8%	Optimized
	Los Angeles, CA	57.8%	2,727	3,330	95.7%	82.2%	Optimized
	Newark, NJ	108.9%	2,396	3,582	98.5%	80.1%	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