

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 85.8%
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	76.5%	1,650	3,018	96.2%	85.2%	Optimized
	Dallas, TX	119.9%	2,914	1,529	97.8%	85.9%	Optimized
	Atlanta, GA	53.2%	2,631	3,523	96.5%	83.6%	Optimized
	Los Angeles, CA	75.4%	2,557	3,131	99.5%	90.5%	Optimized
	Newark, NJ	57.1%	2,862	2,908	99.4%	83.9%	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