

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 79
Average Utilization: 86.2%
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	83.7%	1,424	2,399	99.0%	82.7%	Optimized
	Dallas, TX	59.3%	2,904	2,808	99.1%	84.5%	Optimized
	Atlanta, GA	35.6%	1,482	3,735	96.3%	79.0%	Improvement Needed
Distribution Center B	Los Angeles, CA	43.3%	2,996	3,986	95.7%	93.9%	Optimized
	Newark, NJ	42.4%	1,594	2,156	97.1%	90.6%	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