

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 23
Average Utilization: 83.3%
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	83.1%	1,278	3,860	97.5%	63.0%	Improvement Needed
	Dallas, TX	79.4%	2,708	3,253	95.6%	95.0%	Optimized
	Atlanta, GA	79.0%	2,004	1,940	98.6%	92.3%	Optimized
	Los Angeles, CA	60.2%	1,526	3,229	98.9%	81.1%	Optimized
	Newark, NJ	78.3%	2,126	2,775	97.9%	85.0%	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