

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 81.5%
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	73.4%	1,265	3,638	96.3%	85.9%	Optimized
	Dallas, TX	65.8%	2,073	3,005	97.3%	77.6%	Improvement Needed
Distribution Center B	Atlanta, GA	38.8%	1,586	3,321	98.5%	84.7%	Optimized
Distribution Center C	Los Angeles, CA	60.7%	2,860	1,596	97.2%	65.8%	Improvement Needed
	Newark, NJ	53.1%	2,130	1,870	96.9%	93.4%	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