

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 80.1%
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	50.3%	1,048	2,216	97.8%	80.8%	Optimized
	Dallas, TX	111.9%	1,020	3,805	99.4%	83.0%	Optimized
Distribution Center B	Atlanta, GA	53.5%	1,053	2,158	95.4%	80.0%	Improvement Needed
Distribution Center C	Los Angeles, CA	35.5%	1,723	3,590	97.4%	62.6%	Improvement Needed
Distribution Center D	Newark, NJ	47.9%	2,881	2,788	98.6%	94.2%	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