

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69
Average Utilization: 81.8%
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	65.6%	1,367	1,656	97.7%	90.2%	Optimized
	Dallas, TX	41.0%	2,829	2,875	97.5%	80.5%	Optimized
Distribution Center B	Atlanta, GA	83.1%	1,355	3,617	97.2%	77.3%	Improvement Needed
Distribution Center C	Los Angeles, CA	74.8%	1,707	3,055	95.3%	74.4%	Improvement Needed
Distribution Center D	Newark, NJ	80.3%	2,845	2,943	98.8%	86.5%	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