

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 80.8%
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	76.9%	1,245	2,669	95.3%	84.5%	Optimized
	Dallas, TX	96.5%	1,246	2,762	97.3%	94.1%	Optimized
Distribution Center B	Atlanta, GA	35.9%	1,069	1,798	95.5%	62.2%	Improvement Needed
Distribution Center C	Los Angeles, CA	61.7%	2,130	3,843	96.7%	74.5%	Improvement Needed
Distribution Center D	Newark, NJ	86.7%	1,713	3,277	97.6%	88.7%	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