

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 73
Average Utilization: 80.0%
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	60.5%	1,122	3,265	98.2%	81.7%	Optimized
	Dallas, TX	72.7%	1,225	2,953	97.0%	72.1%	Improvement Needed
Distribution Center B	Atlanta, GA	100.6%	2,437	3,704	97.8%	84.5%	Optimized
Distribution Center C	Los Angeles, CA	61.2%	2,522	2,814	98.9%	70.2%	Improvement Needed
	Newark, NJ	62.8%	1,979	3,997	95.1%	91.6%	Optimized
Distribution Center D							
Distribution Center E							

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