

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 82.1%
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	108.6%	1,902	2,173	95.8%	93.6%	Optimized
	Dallas, TX	49.3%	1,054	2,871	98.1%	83.2%	Optimized
	Atlanta, GA	39.8%	1,332	3,364	96.2%	62.6%	Improvement Needed
Distribution Center B	Los Angeles, CA	65.1%	1,835	2,280	98.7%	93.5%	Optimized
	Newark, NJ	91.8%	1,251	2,497	95.6%	77.4%	Improvement Needed

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