

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 85.8%
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	87.3%	2,094	2,995	99.4%	93.2%	Optimized
	Dallas, TX	53.5%	1,203	2,243	95.4%	65.0%	Improvement Needed
Distribution Center B	Atlanta, GA	57.3%	2,586	3,625	98.1%	89.0%	Optimized
Distribution Center C	Los Angeles, CA	57.0%	2,950	3,527	96.9%	87.5%	Optimized
Distribution Center D	Newark, NJ	87.0%	2,885	1,851	98.6%	94.2%	Optimized
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