

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 74.6%
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	42.4%	1,172	2,306	99.4%	63.8%	Improvement Needed
Distribution Center B	Dallas, TX	74.2%	2,867	3,091	96.8%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	94.8%	2,211	3,191	96.6%	93.2%	Optimized
Distribution Center D	Los Angeles, CA	68.2%	1,614	3,224	97.1%	66.6%	Improvement Needed
Distribution Center E	Newark, NJ	64.7%	1,906	2,525	98.1%	74.7%	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