

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 73.0%
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	122.8%	2,202	2,894	99.3%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	38.9%	1,344	3,059	98.3%	60.7%	Improvement Needed
Distribution Center C	Atlanta, GA	66.2%	1,334	1,930	99.2%	88.6%	Optimized
Distribution Center D	Los Angeles, CA	78.1%	2,682	2,233	99.4%	72.0%	Improvement Needed
Distribution Center E	Newark, NJ	65.6%	1,702	2,068	97.2%	69.0%	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