

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 74
Average Utilization: 75.9%
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	72.9%	2,672	2,589	99.3%	69.1%	Improvement Needed
Distribution Center B	Dallas, TX	118.7%	1,555	3,252	95.1%	92.3%	Optimized
Distribution Center C	Atlanta, GA	47.2%	1,511	2,550	97.2%	76.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.8%	2,579	3,894	96.8%	72.6%	Improvement Needed
Distribution Center E	Newark, NJ	90.6%	1,837	1,868	97.9%	68.8%	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