

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: 75.5%
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	47.0%	1,959	3,749	97.7%	78.7%	Improvement Needed
Distribution Center B	Dallas, TX	46.0%	2,821	2,251	98.1%	79.3%	Improvement Needed
Distribution Center C	Atlanta, GA	105.4%	1,547	2,109	96.3%	70.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	41.9%	2,343	3,591	98.2%	73.3%	Improvement Needed
Distribution Center E	Newark, NJ	54.3%	1,715	1,647	97.7%	75.2%	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