

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 73.2%
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	63.2%	1,761	3,231	99.2%	76.4%	Improvement Needed
Distribution Center B	Dallas, TX	53.1%	1,879	2,527	97.9%	74.3%	Improvement Needed
Distribution Center C	Atlanta, GA	50.9%	1,202	2,521	95.9%	70.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.5%	1,301	1,547	95.3%	73.5%	Improvement Needed
Distribution Center E	Newark, NJ	90.9%	2,254	2,239	99.0%	70.8%	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