

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 76.4%
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	53.2%	1,316	3,768	97.2%	93.3%	Optimized
	Dallas, TX	38.5%	2,877	3,747	97.0%	67.3%	Improvement Needed
Distribution Center B	Atlanta, GA	77.7%	1,437	3,945	96.4%	70.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.8%	2,108	2,514	96.4%	77.2%	Improvement Needed
Distribution Center E	Newark, NJ	60.9%	2,361	3,528	98.1%	74.1%	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