

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 69.1%
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	38.2%	1,857	2,337	99.2%	80.4%	Optimized
	Dallas, TX	103.1%	1,367	3,505	98.4%	60.3%	Improvement Needed
Distribution Center B	Atlanta, GA	80.5%	1,559	2,304	96.2%	60.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.1%	2,258	2,725	98.1%	77.6%	Improvement Needed
Distribution Center E	Newark, NJ	48.9%	2,428	1,677	96.8%	66.6%	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