

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: 73.4%
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	106.3%	1,228	2,123	95.9%	80.5%	Optimized
	Dallas, TX	82.5%	2,464	2,787	97.7%	62.1%	Improvement Needed
Distribution Center B	Atlanta, GA	95.5%	2,090	2,665	95.3%	61.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.2%	2,214	1,681	95.3%	82.7%	Optimized
Distribution Center E	Newark, NJ	42.9%	1,739	3,605	96.3%	80.7%	Optimized

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