

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 80.5%
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	43.1%	1,477	2,066	96.4%	80.5%	Optimized
	Dallas, TX	72.6%	1,711	3,030	97.2%	75.5%	Improvement Needed
Distribution Center B	Atlanta, GA	111.1%	1,774	3,627	99.1%	61.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.0%	2,418	2,457	99.5%	90.3%	Optimized
Distribution Center E	Newark, NJ	70.5%	1,473	2,214	97.6%	94.6%	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