

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: 79.1%
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	65.1%	2,497	2,337	96.4%	71.9%	Improvement Needed
Distribution Center B	Dallas, TX	64.0%	2,779	2,050	96.9%	81.5%	Optimized
Distribution Center C	Atlanta, GA	95.3%	1,649	3,172	98.6%	94.1%	Optimized
Distribution Center D	Los Angeles, CA	65.9%	2,282	3,908	95.4%	64.1%	Improvement Needed
Distribution Center E	Newark, NJ	43.7%	1,932	2,248	95.1%	84.2%	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