

Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller
Date: 8/3/2025, 8:00:30 AM
Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 73.9%
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	81.3%	1,659	3,053	98.3%	64.7%	Improvement Needed
Distribution Center B	Dallas, TX	42.8%	1,387	2,863	95.0%	87.5%	Optimized
Distribution Center C	Atlanta, GA	80.2%	2,993	3,250	98.4%	70.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	129.6%	2,192	2,677	99.4%	67.4%	Improvement Needed
Distribution Center E	Newark, NJ	70.6%	2,475	2,054	97.7%	79.3%	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