Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:16 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62

Average Utilization: 72.3% 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 Chicago, IL Center A	67.9%	1,486	2,026	95.2%	61.0%	Improvemen t Needed
Distribution Dallas, TX	53.4%	2,916	2,149	99.1%	93.7%	Optimized
Center B Distribution Atlanta, GA Center C	54.5%	1,762	3,363	96.8%	64.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	52.7% A	2,309	2,461	95.1%	77.7%	Improvemen t Needed
Distribution Newark, NJ Center E	88.2%	2,636	2,798	95.1%	65.0%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%

- Imple ment voicepicking system to improve accuracy to 99.8%
- Upgra de WMS integration for real-time inventory visibility
- Add au tomated sortation system for small package handling
- Imple ment predictive analytics for demand-based staffing
- Consid er AS/RS system for highvelocity SKUs