Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:48 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52

Average Utilization: 72.2% 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	nStatus
Distribution Chicago, IL Center A	94.8%	1,034	2,441	95.8%	76.7%	Improvemen t Needed
Distribution Dallas, TX Center B	43.1%	2,548	3,787	95.7%	63.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	72.9%	1,677	3,675	97.0%	62.7%	Improvemen t Needed
Distribution Los	78.1%	2,397	3,564	95.6%	93.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 81.6%	1,820	3,551	98.6%	65.1%	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