Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:19 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45

Average Utilization: 73.6% 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	58.7%	2,579	1,595	98.2%	79.1%	Improvemen t Needed
Distribution Dallas, TX Center B	112.7%	1,588	2,428	97.8%	66.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	85.4%	2,074	3,178	96.3%	76.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA	60.1% \	1,065	3,519	98.4%	62.0%	Improvemen t Needed
Distribution Newark, NJ Center E	99.6%	1,593	1,762	98.8%	84.6%	Optimized

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