Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 58

Average Utilization: 75.7% 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	41.2%	1,512	2,242	98.0%	77.1%	Improvemen t Needed
Distribution Dallas, TX Center B	61.1%	2,021	1,874	97.5%	67.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	83.4%	2,810	1,522	96.4%	70.0%	Improvemen t Needed
Distribution Los Center D Angeles, CA	69.5% \	2,241	2,749	95.6%	70.1%	Improvemen t Needed
Distribution Newark, NJ Center E	61.8%	1,503	3,836	97.4%	93.3%	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