Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:58 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 59

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 Status Level	
	Distribution Chicago, IL Center A	69.4%	1,512	2,656	98.1%	78.6%	Improvemen t Needed
	Distribution Dallas, TX Center B	38.8%	1,773	1,634	98.0%	77.4%	Improvemen t Needed
	Distribution Atlanta, GA Center C	85.7%	2,062	1,704	99.5%	60.5%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	49.2% \	1,014	2,669	99.0%	78.8%	Improvemen t Needed
	Distribution Newark, NJ Center E	49.7%	1,149	3,957	97.5%	72.9%	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