Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:07 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 55

Average Utilization: 77.7% 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 Status Level	
	stribution enter A	Chicago, IL	63.8%	2,471	2,992	98.7%	73.8%	Improvemen t Needed
		Dallas, TX	57.0%	2,352	3,218	96.3%	94.9%	Optimized
	enter B stribution enter C	Atlanta, GA	68.2%	1,028	3,330	95.0%	73.6%	Improvemen t Needed
_	stribution enter D	Los Angeles, CA	62.7% A	1,532	2,162	97.0%	74.9%	Improvemen t Needed
	stribution enter E	Newark, NJ	60.5%	2,915	2,828	95.2%	71.4%	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