Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:00 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 37

Average Utilization: 71.4% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Locati	on Capacity Used	•		Picking Accuracy	Automation Status Level	
Distribution Chicag Center A	jo, IL 44.9%	1,191	2,422	95.3%	65.5%	Improvemen t Needed
Distribution Dallas,	TX 61.7%	2,232	2,189	98.8%	80.9%	Optimized
Center B Distribution Atlanta Center C	ı, GA 83.2%	2,388	2,171	96.1%	72.9%	Improvemen t Needed
Distribution Los Center D Angele	52.3% es, CA	2,513	3,885	97.9%	63.5%	Improvemen t Needed
Distribution Newar Center E	k, NJ 100.3%	1,528	1,602	96.1%	74.0%	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