Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:02 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38

Average Utilization: 86.9% 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	n Status
Distribution Chicago, IL Center A	50.1%	1,713	2,229	98.2%	77.2%	Improvemen t Needed
Distribution Dallas, TX	53.1%	1,119	2,293	98.9%	93.2%	Optimized
Center B Distribution Atlanta, GA	82.4%	2,408	2,025	97.1%	81.1%	Optimized
Center C Distribution Los	100.6%	2,329	3,934	95.8%	93.2%	Optimized
Center D Distribution Newark, NJ Center E	^A 91.6%	2,887	3,223	97.6%	89.6%	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