Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:40 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 35

Average Utilization: 86.6% 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	Automatio Level	n Status
Distribution Chicago, IL Center A	98.9%	1,566	3,119	98.9%	75.5%	Improvemen t Needed
Distribution Dallas, TX	48.8%	1,013	3,091	96.5%	91.7%	Optimized
Center B Distribution Atlanta, GA	44.7%	1,604	3,743	96.0%	90.7%	Optimized
Center C Distribution Los	42.4%	2,513	2,588	97.9%	83.8%	Optimized
Center D Angeles, C Center E	^A 128.0%	1,845	1,726	97.7%	91.2%	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