Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:28 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53

Average Utilization: 88.5% 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	62.9%	2,275	2,544	95.6%	90.6%	Optimized
Center A Distribution Dallas, TX Center B	42.0%	1,911	2,445	96.7%	78.7%	Improvemen t Needed
Distribution Atlanta, GA	116.9%	1,984	2,809	98.1%	88.6%	Optimized
Center C Distribution Los	58.3%	1,849	3,016	95.9%	93.7%	Optimized
Center E Angeles, Content E	^A 95.9%	1,728	1,628	99.3%	90.8%	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