Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:11 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 60

Average Utilization: 78.0% 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	Status
Distribution Chicago, IL Center A	57.7%	2,673	3,614	95.3%	68.0%	Improvemen t Needed
Distribution Dallas, TX	58.2%	2,187	2,930	97.3%	82.4%	Optimized
Center B Distribution Atlanta, GA	57.8%	2,011	2,032	95.5%	84.3%	Optimized
Center C Distribution Los Center D Angeles, CA	64.7% A	1,121	3,544	97.9%	62.3%	Improvemen t Needed
Distribution Newark, NJ Center E	48.6%	2,290	3,842	97.0%	92.9%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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