Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:36 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 34

Average Utilization: 80.7% 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		2,723	3,758	96.3%	91.7%	Optimized
Center A Distribution Dallas, TX		2,953	1,561	97.3%	93.2%	Optimized
Center B Distribution Atlanta, GA Center C	86.2%	1,656	2,450	99.5%	60.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	35.1% \	2,361	2,851	95.2%	67.2%	Improvemen t Needed
Distribution Newark, NJ Center E	66.5%	2,330	3,359	97.1%	91.4%	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