Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:20 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45

Average Utilization: 84.1% 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		2,990	1,714	99.0%	88.5%	Optimized
Center A Distribution Dallas, TX	75.6%	2,443	2,458	95.8%	86.8%	Optimized
Center B Distribution Atlanta, GA Center C	106.5%	1,012	3,196	98.9%	78.7%	Improvemen t Needed
Distribution Los	36.1%	2,393	1,696	99.2%	91.3%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	[\] 38.9%	1,989	3,318	98.8%	75.2%	Improvemen t Needed

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