Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:32 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 38

Average Utilization: 78.6% 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	Automation Level	Status
Distribution Chicago, IL	49.8%	2,113	3,266	98.5%	85.5%	Optimized
Center A Distribution Dallas, TX		2,836	2,703	98.4%	87.4%	Optimized
Center B Distribution Atlanta, GA Center C	84.7%	2,939	2,109	96.9%	66.1%	Improvemen t Needed
Distribution Los	106.5%	2,215	2,105	95.9%	86.7%	Optimized
Center D Distribution Newark, NJ Center E	110.1%	1,375	2,344	97.0%	67.5%	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