Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:12 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 51

Average Utilization: 83.1% 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		1,608	3,430	96.4%	89.1%	Optimized
Center A Distribution Dallas, TX		1,185	2,153	98.4%	94.9%	Optimized
Center B Distribution Atlanta, GA Center C	85.7%	2,852	1,635	96.0%	78.3%	Improvemen t Needed
Distribution Los	100.7%	2,363	2,246	98.6%	80.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 70.3%	2,762	3,749	99.1%	72.5%	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