Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:11 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58

Average Utilization: 81.5% 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	66.4%	1,182	3,556	98.5%	87.9%	Optimized
,		2,429	2,368	96.3%	81.1%	Optimized
Center B Distribution Atlanta, GA Center C	77.9%	2,182	2,320	97.1%	79.4%	Improvemen t Needed
Distribution Los	70.8%	1,683	2,385	95.7%	83.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 50.1%	2,704	2,148	95.1%	75.7%	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