Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:25 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63

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	n Status
Distribution Chicago, IL		2,708	3,155	95.8%	86.1%	Optimized
Center A Distribution Dallas, TX		1,544	2,837	96.2%	81.1%	Optimized
Center B Distribution Atlanta, GA Center C	73.0%	1,477	3,997	99.1%	78.5%	Improvemen t Needed
Distribution Los	79.1%	1,616	3,928	98.6%	88.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 74.4%	2,617	2,538	98.1%	73.1%	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