Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 53

Average Utilization: 82.7% 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 Center A	75.6%	2,960	3,797	97.1%	69.3%	Improvemen t Needed
Distribution Dallas, TX Center B	53.2%	1,716	2,662	96.1%	76.2%	Improvemen t Needed
Distribution Atlanta, GA	54.3%	2,518	3,431	96.0%	92.4%	Optimized
Center C Distribution Los	114.9%	1,211	1,534	97.3%	87.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	44.6%	1,560	3,379	98.5%	88.1%	Optimized

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