Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:25 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63

Average Utilization: 82.5% 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		1,374	3,759	95.4%	82.6%	Optimized
Center A Distribution Dallas, TX		2,395	1,546	98.7%	92.9%	Optimized
Center B Distribution Atlanta, GA Center C	95.9%	1,442	3,986	97.8%	75.2%	Improvemen t Needed
Distribution Los	50.9%	2,007	3,237	95.1%	91.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	79.0%	2,522	2,412	98.5%	70.6%	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