Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58

Average Utilization: 80.3% 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		2,176	2,580	97.2%	92.6%	Optimized
Center A Distribution Dallas, TX Center B	78.8%	1,070	1,524	96.6%	66.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	61.4%	1,600	2,536	99.0%	65.5%	Improvemen t Needed
Distribution Los	55.5%	1,778	2,368	97.4%	93.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 34.9%	2,960	3,025	98.5%	82.8%	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