Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:43 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36

Average Utilization: 81.6% 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	44.0%	1,783	2,534	98.5%	91.4%	Optimized
Center A Distribution Dallas, TX Center B	46.2%	2,446	2,488	99.0%	73.7%	Improvemen t Needed
Distribution Atlanta, GA	90.9%	2,540	2,854	96.7%	82.2%	Optimized
Center C Distribution Los	80.3%	2,582	2,700	96.5%	92.6%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 88.4%	2,838	1,529	97.5%	68.2%	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