Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:41 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 74.6% 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 Center A	46.7%	1,617	3,489	99.1%	64.1%	Improvemen t Needed
Distribution Dallas, TX Center B	41.7%	1,347	2,000	95.8%	78.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	78.4%	2,040	1,715	99.3%	60.5%	Improvemen t Needed
Distribution Los	85.2%	2,051	3,656	98.4%	85.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.4%	2,077	1,573	96.1%	85.0%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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