Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:55 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 53

Average Utilization: 74.8% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location	Capacity Used	Inbound/ Day	Outbound/ Day	nd/ Picking Automation Status Accuracy Level		
Distribution Chicago, IL Center A	124.6%	2,475	3,065	98.0%	65.7%	Improvemen t Needed
Distribution Dallas, TX	72.0%	1,332	3,777	95.1%	89.2%	Optimized
Center B Distribution Atlanta, GA Center C	73.4%	1,563	1,856	99.4%	63.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	43.4% A	1,007	3,244	96.9%	63.0%	Improvemen t Needed
Distribution Newark, NJ Center E	97.7%	2,094	3,344	95.8%	92.4%	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