Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:34 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 50

Average Utilization: 79.5% 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 Center A	71.6%	2,781	1,512	96.2%	64.6%	Improvemen t Needed
Distribution Dallas, TX Center B	73.4%	1,574	3,334	99.3%	72.3%	Improvemen t Needed
Distribution Atlanta, GA	51.3%	2,608	3,837	99.0%	91.2%	Optimized
Center C Distribution Los Center D Angeles, CA	57.6% A	2,686	3,330	96.9%	77.3%	Improvemen t Needed
Distribution Newark, NJ Center E	53.4%	2,032	1,508	95.4%	92.2%	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