Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:37 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46

Average Utilization: 80.5% 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	62.0%	1,307	1,518	96.1%	74.9%	Improvemen t Needed
Distribution Dallas, TX Center B	77.4%	1,746	2,526	96.5%	71.8%	Improvemen t Needed
Distribution Atlanta, GA	44.9%	2,120	1,614	98.7%	84.4%	Optimized
Center C Distribution Los Center D Angeles, CA	80.8% A	1,689	2,542	98.9%	79.1%	Improvemen t Needed
Distribution Newark, NJ Center E	83.7%	2,282	1,731	95.5%	92.6%	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