Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:34 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 69

Average Utilization: 75.4% 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	74.7%	2,367	2,965	97.6%	79.3%	Improvemen t Needed
Distribution Dallas, TX	55.7%	1,600	3,237	97.2%	84.8%	Optimized
Center B Distribution Atlanta, GA	52.8%	1,202	3,736	96.0%	83.1%	Optimized
Center C Distribution Los Center D Angeles, CA	48.8% A	1,676	3,058	98.3%	62.6%	Improvemen t Needed
Distribution Newark, NJ Center E	52.7%	1,840	2,239	96.8%	67.0%	Improvemen t Needed

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