Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:52 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44

Average Utilization: 75.8% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Chicago, IL Center A	77.5%	2,693	3,716	96.4%	68.4%	Improvemen t Needed
Distribution Dallas, TX	51.0%	1,143	1,787	96.8%	91.7%	Optimized
Center B Distribution Atlanta, GA	56.7%	1,320	1,678	98.4%	82.2%	Optimized
Center C Distribution Los Center D Angeles, CA	79.4% \	2,198	2,195	98.2%	70.1%	Improvemen t Needed
Distribution Newark, NJ Center E	56.9%	2,439	3,285	96.8%	66.7%	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