Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:47 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 32

Average Utilization: 77.6% 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	40.2%	1,415	2,420	95.6%	72.0%	Improvemen t Needed
Distribution Dallas, TX	48.5%	2,785	3,646	97.6%	87.7%	Optimized
Center B Distribution Atlanta, GA	72.6%	2,150	3,847	97.7%	85.6%	Optimized
Center C Distribution Los Center D Angeles, CA	104.0% \	2,899	1,823	97.1%	66.5%	Improvemen t Needed
Distribution Newark, NJ Center E	53.6%	2,649	2,557	97.6%	76.4%	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