Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:15 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 32

Average Utilization: 79.6% 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	102.6%	2,099	2,255	95.2%	84.7%	Optimized
Center A Distribution Dallas, TX	106.5%	2,324	1,993	98.0%	94.1%	Optimized
Center B Distribution Atlanta, GA Center C	58.4%	2,840	3,089	95.4%	78.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	93.4% \	1,339	1,875	95.3%	61.0%	Improvemen t Needed
Distribution Newark, NJ Center E	95.1%	1,908	2,765	97.3%	79.7%	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