Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:37 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46

Average Utilization: 75.3% 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	46.1%	1,513	3,190	98.9%	66.5%	Improvemen t Needed
Distribution Dallas, TX	86.9%	2,839	1,773	97.6%	92.6%	Optimized
Center B Distribution Atlanta, GA Center C	71.7%	2,861	3,713	96.0%	60.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	60.0%	2,582	2,737	99.3%	65.0%	Improvemen t Needed
Distribution Newark, NJ Center E	69.9%	2,092	1,538	96.4%	91.8%	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