Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:08 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 72

Average Utilization: 81.1% 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	n Status
Distribution Chicago, IL Center A	107.6%	1,276	3,748	95.4%	66.9%	Improvemen t Needed
Distribution Dallas, TX	46.8%	2,197	1,979	97.2%	85.4%	Optimized
Center B Distribution Atlanta, GA	44.4%	2,527	2,260	95.4%	83.1%	Optimized
Center C Distribution Los	90.0%	2,077	1,957	95.7%	89.4%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 58.6%	1,064	2,968	97.0%	80.7%	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