Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:06:12 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52

Average Utilization: 76.5% 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	63.4%	1,383	2,536	99.0%	64.7%	Improvemen t Needed
Distribution Dallas, TX Center B	93.2%	2,929	3,915	98.9%	75.0%	Improvemen t Needed
Distribution Atlanta, GA Center C	50.3%	1,410	3,340	95.6%	78.6%	Improvemen t Needed
Distribution Los	54.1%	1,172	1,808	97.2%	80.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 45.3%	2,100	3,401	97.4%	84.0%	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