Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:45 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55

Average Utilization: 80.8% 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	Automatio Level	n Status
Distribution Chicago, IL Center A	100.9%	1,534	3,584	95.9%	64.7%	Improvemen t Needed
Distribution Dallas, TX	73.7%	1,673	3,873	99.5%	86.2%	Optimized
Center B Distribution Atlanta, GA	69.2%	1,094	1,996	97.4%	81.5%	Optimized
Center C Distribution Los	92.5%	1,837	2,180	96.1%	90.6%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 80.9%	2,549	1,531	95.6%	80.9%	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