Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:32 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 51

Average Utilization: 85.7% 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		2,399	3,302	97.2%	86.4%	Optimized
Center A Distribution Dallas, TX Center B	56.5%	1,864	2,728	96.2%	73.5%	Improvemen t Needed
Distribution Atlanta, GA	65.9%	1,308	3,430	98.8%	91.6%	Optimized
Center C Distribution Los	66.9%	2,544	2,558	97.7%	86.1%	Optimized
Center D Angeles, CA Center E	^A 70.1%	2,324	3,916	95.5%	90.7%	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