Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:00:47 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 40

Average Utilization: 73.8% 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	Automation Level	n Status
Distribution Chicago, IL	91.2%	2,586	3,951	98.5%	81.4%	Optimized
Center A Distribution Dallas, TX Center B	127.9%	2,122	2,279	95.7%	67.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	65.2%	1,587	1,547	95.8%	60.7%	Improvemen t Needed
Distribution Los	86.0%	1,433	2,357	97.1%	87.5%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^A 57.7%	2,656	3,897	99.4%	71.4%	Improvemen t Needed

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