Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:06 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 66

Average Utilization: 76.6% 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	Status
Distribution Chicago, IL Center A	40.6%	2,225	3,312	98.5%	71.5%	Improvemen t Needed
Distribution Dallas, TX	106.4%	2,627	3,613	99.2%	83.7%	Optimized
Center B Distribution Atlanta, GA Center C	69.4%	2,885	3,123	95.3%	65.3%	Improvemen t Needed
Distribution Los	38.4%	2,479	1,660	95.3%	89.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 125.8%	1,074	1,504	95.4%	73.5%	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