Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:08 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 29

Average Utilization: 85.3% 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	49.6%	1,589	3,863	99.1%	68.9%	Improvemen t Needed
Distribution Dallas, TX	111.8%	2,784	1,755	97.8%	88.1%	Optimized
Center B Distribution Atlanta, GA	78.7%	2,722	1,839	98.4%	92.3%	Optimized
Center C Distribution Los	72.3%	2,043	1,967	98.1%	90.6%	Optimized
Genter D Distribution Newark, NJ Center E	^A 85.9%	2,364	2,553	97.5%	86.7%	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