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: 62

Average Utilization: 86.8% 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	104.6%	1,431	3,222	97.9%	92.3%	Optimized
Center A Distribution Dallas, TX		1,169	1,758	96.9%	94.6%	Optimized
Center B Distribution Atlanta, GA	58.1%	1,182	2,813	97.9%	88.1%	Optimized
Center C Distribution Los	98.1%	1,537	3,910	98.9%	82.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 44.7%	1,404	2,010	98.6%	76.8%	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