Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:24 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 51

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		2,070	1,523	98.9%	86.3%	Optimized
Center A Distribution Dallas, TX		2,882	3,353	98.0%	93.2%	Optimized
Center B Distribution Atlanta, GA Center C	70.2%	2,318	1,946	97.3%	71.3%	Improvemen t Needed
Distribution Los	52.2%	1,776	2,447	98.9%	80.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 57.3%	2,782	3,452	95.4%	94.7%	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