Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:03:52 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36

Average Utilization: 78.0% 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	85.5%	1,656	3,980	95.0%	92.7%	Optimized
Center A Distribution Dallas, TX	58.0%	2,391	2,814	96.1%	91.1%	Optimized
Center B Distribution Atlanta, GA Center C	68.8%	1,549	2,197	96.6%	65.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	91.6% \	1,798	3,369	96.2%	71.9%	Improvemen t Needed
Distribution Newark, NJ Center E	50.6%	1,564	3,907	97.7%	69.0%	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