Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:32 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54

Average Utilization: 77.7% 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	72.3%	1,815	1,877	99.4%	89.7%	Optimized
Center A Distribution Dallas, TX Center B	40.5%	1,114	2,300	95.8%	65.4%	Improvemen t Needed
Distribution Atlanta, GA	60.5%	2,901	3,103	96.2%	88.4%	Optimized
Center C Distribution Los Center D Angeles, CA	78.3% \	2,521	2,661	97.4%	70.3%	Improvemen t Needed
Distribution Newark, NJ Center E	101.9%	1,283	1,611	96.9%	74.7%	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