Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:02 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 54

Average Utilization: 80.1% 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	37.1%	2,669	1,540	95.3%	90.6%	Optimized
Center A Distribution Dallas, TX Center B	106.4%	2,966	2,049	95.9%	74.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	76.9%	1,920	3,504	95.4%	78.0%	Improvemen t Needed
Distribution Los	66.4%	1,326	2,758	98.2%	94.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 86.4%	1,957	1,721	95.2%	62.4%	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