Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:04:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 30

Average Utilization: 80.2% 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
J ,	44.6%	2,929	2,532	97.9%	82.5%	Optimized
Center A Distribution Dallas, TX Center B	58.5%	2,706	3,856	98.9%	79.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	46.5%	2,839	2,434	96.5%	79.8%	Improvemen t Needed
Distribution Los	47.0%	1,579	2,498	97.3%	82.9%	Optimized
Center E Angeles, CA Newark, NJ Center E	47.7%	2,264	1,654	98.2%	76.5%	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