Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:56 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41

Average Utilization: 70.5% 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 Center A	78.9%	2,369	2,497	96.3%	74.5%	Improvemen t Needed
Distribution Dallas, TX Center B	83.7%	1,215	3,589	97.1%	71.6%	Improvemen t Needed
Distribution Atlanta, GA Center C	89.8%	1,027	2,547	97.7%	60.2%	Improvemen t Needed
Distribution Los	66.9%	1,804	3,092	99.0%	84.8%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 91.4%	2,681	1,917	96.0%	61.2%	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