Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:05:18 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 53

Average Utilization: 76.0% 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 Center A	93.4%	2,675	1,556	97.1%	61.2%	Improvemen t Needed
Distribution Dallas, TX	69.7%	2,377	2,892	96.6%	81.6%	Optimized
Center B Distribution Atlanta, GA	71.2%	2,457	2,515	95.1%	87.5%	Optimized
Center C Distribution Los Center D Angeles, CA	76.7% A	2,761	1,924	95.7%	60.9%	Improvemen t Needed
Distribution Newark, NJ Center E	42.5%	1,741	3,642	99.2%	88.9%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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