Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:08:35 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 42

Average Utilization: 84.0% 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	46.0%	2,439	3,454	95.1%	90.2%	Optimized
Center A Distribution Dallas, TX		2,846	2,188	95.6%	82.2%	Optimized
Center B Distribution Atlanta, GA	40.6%	1,065	3,737	99.2%	92.4%	Optimized
Center C Distribution Los Center D Angeles, CA	36.2% A	2,981	2,898	97.6%	75.8%	Improvemen t Needed
Distribution Newark, NJ Center E	55.6%	2,914	2,652	96.1%	79.1%	Improvemen t Needed

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