Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:16 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53

Average Utilization: 81.3% 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		2,089	3,980	99.0%	92.7%	Optimized
Center A Distribution Dallas, TX		1,020	3,322	95.1%	88.5%	Optimized
Center B Distribution Atlanta, GA Center C	65.5%	1,014	2,772	97.6%	61.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	48.9% A	1,649	3,361	99.5%	69.5%	Improvemen t Needed
Distribution Newark, NJ Center E	80.2%	2,990	1,788	98.8%	94.8%	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