Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:01:07 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5 Total Robots: 39

Average Utilization: 85.6% 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		1,374	3,025	99.2%	89.8%	Optimized
Center A Distribution Dallas, TX Center B	41.5%	1,089	1,502	97.2%	76.4%	Improvemen t Needed
Distribution Atlanta, GA	60.0%	1,578	3,102	98.3%	93.4%	Optimized
Center C Distribution Los Center D Angeles, CA	61.9% \	2,418	2,616	96.9%	75.6%	Improvemen t Needed
Distribution Newark, NJ Center E	95.0%	2,703	2,607	98.2%	93.1%	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