Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:07:21 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36

Average Utilization: 82.7% 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	72.6%	2,391	3,039	97.8%	92.0%	Optimized
Center A Distribution Dallas, TX Center B	57.4%	1,686	2,913	97.7%	71.9%	Improvemen t Needed
Distribution Atlanta, GA	70.6%	2,928	2,624	98.9%	80.2%	Optimized
Center C Distribution Los	96.8%	1,387	2,450	99.1%	94.5%	Optimized
Center E Angeles, Content E	⁴ 47.2%	2,382	2,823	99.0%	74.7%	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