Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

Date: 8/3/2025, 8:02:01 AM Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 61

Average Utilization: 79.7% 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 Center A	69.9%	1,855	3,832	98.5%	74.2%	Improvemen t Needed
Distribution Dallas, TX	54.2%	2,087	2,701	98.9%	91.4%	Optimized
Center B Distribution Atlanta, GA	82.2%	2,269	2,562	98.0%	92.0%	Optimized
Center C Distribution Los	72.9%	1,655	2,091	97.1%	80.2%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 51.3%	1,176	2,801	99.0%	60.6%	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