Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5 Total Robots: 49

Average Utilization: 79.4% 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	50.1%	2,158	3,508	95.4%	66.8%	Improvemen t Needed
Distribution Dallas, TX	67.1%	2,516	1,781	99.1%	85.8%	Optimized
Center B Distribution Atlanta, GA	64.1%	1,660	3,398	95.1%	82.6%	Optimized
Center C Distribution Los	63.0%	1,235	1,703	96.3%	82.7%	Optimized
Genter D Distribution Newark, NJ Center E	¹ 96.0%	1,787	3,153	98.7%	78.8%	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