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: 55

Average Utilization: 78.8% 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	52.2%	1,773	1,953	96.3%	73.8%	Improvemen t Needed
Distribution Dallas, TX	88.8%	2,599	2,998	98.1%	82.9%	Optimized
Center B Distribution Atlanta, GA	75.8%	2,854	3,857	96.1%	81.7%	Optimized
Center C Distribution Los	44.1%	1,270	3,247	96.5%	90.7%	Optimized
Genter D Distribution Newark, NJ Center E	^A 67.3%	1,723	2,962	99.2%	64.8%	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