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: 56

Average Utilization: 83.3% 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	65.9%	2,088	3,698	95.6%	79.1%	Improvemen t Needed
Distribution Dallas, TX Center B	59.4%	1,000	1,651	96.3%	77.7%	Improvemen t Needed
Distribution Atlanta, GA	43.9%	2,464	3,155	99.4%	90.9%	Optimized
Center C Distribution Los	58.6%	1,402	2,581	97.8%	86.1%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	⁴ 71.8%	2,981	1,981	96.8%	82.9%	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