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: 48

Average Utilization: 84.6% 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	63.7%	1,626	3,325	98.1%	73.5%	Improvemen t Needed
Distribution Dallas, TX	66.9%	2,277	2,630	97.8%	95.0%	Optimized
Center B Distribution Atlanta, GA	72.7%	1,690	3,340	98.8%	92.7%	Optimized
Center C Distribution Los	34.0%	2,386	2,907	96.3%	87.7%	Optimized
Center E Angeles, CA Center E	^A 83.6%	1,861	1,561	95.6%	74.1%	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