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: 78.5% 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	40.8%	1,229	2,692	97.5%	69.4%	Improvemen t Needed
Distribution Dallas, TX Center B	85.3%	2,103	2,362	99.1%	63.2%	Improvemen t Needed
Distribution Atlanta, GA	63.4%	1,865	2,686	97.9%	93.6%	Optimized
Center C Distribution Los	35.1%	2,782	2,510	98.8%	83.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 66.8%	1,212	2,118	97.4%	82.7%	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