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: 46

Average Utilization: 81.0% 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	60.0%	1,366	3,585	98.6%	68.9%	Improvemen t Needed
Distribution Dallas, TX Center B	48.8%	1,652	2,211	97.5%	65.8%	Improvemen t Needed
Distribution Atlanta, GA	127.4%	1,438	3,305	97.2%	95.0%	Optimized
Center C Distribution Los	71.4%	2,218	3,450	95.3%	82.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 74.7%	2,685	2,348	97.3%	92.9%	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