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: 44

Average Utilization: 84.1% 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	59.3%	1,386	2,891	99.1%	75.9%	Improvemen t Needed
Distribution Dallas, TX Center B	97.7%	2,542	2,592	95.1%	77.7%	Improvemen t Needed
Distribution Atlanta, GA	60.3%	2,508	2,789	97.8%	94.3%	Optimized
Center C Distribution Los	86.4%	2,740	1,631	98.2%	84.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 61.8%	2,472	3,147	98.1%	88.2%	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