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: 54

Average Utilization: 82.7% 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	54.0%	1,226	3,206	95.1%	76.5%	Improvemen t Needed
Distribution Dallas, TX Center B	57.2%	2,105	3,943	97.3%	68.9%	Improvemen t Needed
Distribution Atlanta, GA	107.7%	2,374	1,516	98.6%	92.7%	Optimized
Center C Distribution Los	84.9%	1,131	1,928	99.4%	86.0%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 42.4%	1,221	2,354	97.4%	89.3%	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