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: 49

Average Utilization: 83.0% 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	59.6%	2,849	2,274	97.6%	76.7%	Improvemen t Needed
Distribution Dallas, TX Center B	108.6%	1,953	2,131	98.9%	75.1%	Improvemen t Needed
Distribution Atlanta, GA	103.0%	1,044	1,777	98.0%	90.4%	Optimized
Center C Distribution Los	50.8%	1,977	1,615	95.5%	84.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 82.1%	2,608	2,075	98.8%	88.4%	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