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: 50

Average Utilization: 79.1% 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	106.6%	2,468	2,932	97.2%	68.1%	Improvemen t Needed
Distribution Dallas, TX Center B	59.2%	2,556	2,220	98.4%	72.3%	Improvemen t Needed
Distribution Atlanta, GA	69.4%	2,261	2,419	99.4%	82.3%	Optimized
Center C Distribution Los	57.6%	1,114	2,068	98.7%	92.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 58.9%	2,012	1,997	96.4%	80.7%	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